



BOISE STATE UNIVERSITY



2020 - 2021

UNDERGRADUATE

CATALOG

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## 2020-2021 Undergraduate Catalog Addendum

### **INSTRUCTOR DELIVERY METHOD**

During the 2020-2021 academic year some or all instruction may be, entirely or in part, delivered remotely. Tuition and fees have been set regardless of the method of instruction and will not be refunded in the event instruction occurs remotely for any part of the 2020-2021 academic year.

### **COVID-19 DISCLAIMER NOTICE**

Boise State University is committed to the health, safety, and academic achievement of its students and patrons. The University must respond swiftly to the ever-changing situation caused by the COVID-19 public health situation.

All classes during the 2020-2021 academic year, as a direct or indirect result of the ongoing COVID-19 public health situation, are subject to change in delivery method, schedule, or other potential modification. The University will make every effort to provide courses required for program completion, but cannot guarantee all classes will be available or completed through the delivery method of choice during Fall 2020.

All members of the campus community, including visitors, on campus to attend classes or for other purposes: a) are responsible for taking an active role in the efforts to mitigate and prevent the spread of the virus; b) must follow all health guidance, policies, and regulations communicated by the University, governmental authorities, and public health officials; c) must practice enhanced cleanliness and hygiene practices, including frequent hand washing and physical distancing as directed by the University; d) are subject to public health monitoring and screening practices such as: temperature checks, testing, wearing masks and other personal protective equipment, or others; e) must cooperate fully with any contact tracing or other similar efforts that may be required by the circumstances; and f) may be required to self-isolate while on campus or refrain from entering campus for a time period due to quarantine requirements or guidance.

## How to Use This Catalog

This catalog is primarily for and directed at students. However, it serves many audiences, such as high school counselors, academic advisors, and the public. In this catalog you will find an overview of Boise State University and information on admission, registration, grades, tuition and fees, financial aid, housing, student services, and other important policies and procedures. However, most of this catalog is devoted to describing the various programs and courses offered at Boise State.

Choosing an academic program of study that fits your interests is likely one of your primary concerns. To be successful, you will need to understand the requirements for the degree or certificate you decide to pursue.

Chapter 10 is a good place to start. This chapter explains the various types of degrees and certificates, the general requirements associated with each type, and other policies and procedures applicable to all degrees. This chapter also describes how to read the table of requirements for your chosen program.

Next, Chapter 11 will help you find information about specific programs and course offerings. It lists every undergraduate program of study offered at Boise State, which unit administers the program, and on what page its specific requirements are listed. This chapter also lists the course prefixes and their meanings.

Finally, Chapter 12 describes all the undergraduate academic programs and course offerings. Within the chapter, programs are listed alphabetically and are appropriately cross-referenced.

Even though we attempted to make this catalog as comprehensive as possible, you still might have questions. For inquiries regarding your academic program, contact your advisor (or the Advising and Academic Support Center (AASC), if you have not chosen a major). For other questions contact the offices listed in the appropriate chapters.

The following reference materials are available on the Boise State website:

- Graduate Catalog
- Policy Manual
- Student Code of Conduct
- Student Handbook

## Table of Contents

|   |                                   |
|---|-----------------------------------|
| 2020–2021 Academic Calendar .....                             | 2                                 |
| Chapter 1—An Introduction to Boise State University .....     | 7                                 |
| Chapter 2—General Policies .....                              | 19                                |
| Chapter 3—Admissions .....                                    | 22                                |
| Chapter 4—Registration Policies and Procedures .....          | 28                                |
| Chapter 5—Grades .....  | 31                                |
| Chapter 6—Tuition and Fees .....                              | 33                                |
| Chapter 7—Financial Aid .....                                 | 36                                |
| Chapter 8—On-Campus Student Housing .....                     | 39                                |
| Chapter 9—Student Services .....                              | 41                                |
| Chapter 10—Obtaining a Degree at Boise State University ..... | 46                                |
| General Degree Requirements .....                             | 46                                |
| College First-Year Writing Requirement .....                  | 47                                |
| Mathematics Requirement .....                                 | 47                                |
| University Foundations Program .....                          | 49                                |
| Catalog Policy .....  | 51                                |
| Credit for Prior Learning .....                               | 51                                |
| Credit Limitations .....                                      | 52                                |
| How to Apply for Graduation .....                             | 53                                |
| Transferring Credits to Boise State .....                     | 54                                |
| How to Read a Degree Requirements Table .....                 | 55                                |
| Chapter 11—Summary of Programs and Courses .....              | 56                                |
| University-Wide Course Numbers .....                          | 58                                |
| Course Prefixes .....   | 59                                |
| How to Read a Course Description .....                        | 60                                |
| Chapter 12—Academic Programs and Courses .....                | 61                                |
| Administration, Faculty, and Emeriti .....                    | 328                               |
| Index .....   | 341                               |
| Campus Map .....  | <a href="#">inside back cover</a> |

## Policy Statement Concerning Catalog Contents

The purpose of the Boise State Catalog is to provide current, articulate and accurate information about Boise State University for guidance of prospective students, for faculty and administrative officers, for students currently enrolled, and for other education or allied agencies.

Catalogs, bulletins, course and fee schedules, etc., are not to be considered as binding contracts between Boise State University and students. The university and its divisions reserve the right at any time, without advance notice, to: (a) withdraw or cancel classes, courses, and programs; (b) change fee schedules; (c) change the academic calendar; (d) change admission and registration requirements; (e) change the regulations and requirements governing instruction in, and graduation from, the university and its various divisions; and (f) change any other regulations affecting students. Changes shall go into force whenever the proper authorities so determine, and shall apply not only to prospective students but also to those who are degree-seeking at the time in the university. When economic and other conditions permit, the university tries to provide advance notice of such changes. In particular, when an instructional program is to be withdrawn, the university will make every reasonable effort to ensure that students who are within two years of completing the graduation requirements, and who are making normal progress toward the completion of those requirements, will have the opportunity to complete the program, which is to be withdrawn.

It is the policy of Boise State University to provide equal educational and employment opportunities, services, and benefits to students and employees without regard to race, color, national origin, sex, creed, age or handicap in accordance with Title VII of the Civil Rights Act of 1964, Title IX of the Educational Amendments of 1972, Sections 799A and 845 of the Public Health Act, and Sections 503 and 504 of the Rehabilitation Act of 1973, where applicable, as enforced by the U.S. Department of Health, Education, and Welfare.

NOTE: The courses contained in this catalog do not preclude or limit the university in its offerings for any semester or session nor do they restrict the university to the time block (semester) represented by the approved academic calendar.

Boise State University attempts to respond to the educational needs and wants of any and all students when expressed. Requests for courses to be offered whenever they are desired will be favorably received providing that a minimum of 12 qualified students enrolls in the class and a competent faculty member is available to teach the course.

# 2020–2021 Academic Calendar

## SUMMER SESSION 2020

| Deadlines by Session—Summer 2020 |                      |                         |   |                 |  |  |                                 |                         |
|----------------------------------|----------------------|-------------------------|---|-----------------|--|--|---------------------------------|-------------------------|
| Session                          | Fee Payment Deadline | Start Date <sup>1</sup> | Last Date to Register or Waitlist Without Permission Number | Drop Fee Begins | Last Date to Register or Drop without a W. Refund <sup>2</sup> | Last Date to Drop or Completely Withdraw with a W. No Refund | Last Date of Course Instruction | Grades Due <sup>3</sup> |
| 1st 3-week                       | May 9                | May 11                  | May 11  | May 15          | May 12   | May 22   | May 31                          | June 2                  |
| 2nd 3-week                       | July 25              | July 27                 | July 27   | July 31         | July 28  | August 7   | August 16                       | August 18               |
| 1st 5-week                       | May 30               | June 1                  | June 2  | June 5          | June 3   | June 23  | July 5                          | July 7                  |
| 2nd 5-week                       | July 2               | July 6                  | July 7  | July 10         | July 8   | July 28  | August 9                        | August 11               |
| 1st 7-week                       | May 9                | May 11                  | May 13  | May 15          | May 14   | June 10  | June 28                         | June 30                 |
| 2nd 7-week                       | June 27              | June 29                 | July 1  | July 5          | July 2   | July 29  | August 16                       | August 18               |
| 10-week                          | May 30               | June 1                  | June 3  | June 6          | June 9   | July 16  | August 9                        | August 11               |
| 14-week                          | May 9                | May 11                  | May 15  | May 17          | May 21   | July 14  | August 16                       | August 18               |

1. Complete withdrawals on or after this date are subject to a nonrefundable \$40.00 processing fee.  
 2. Last date to add with permission number, last date to drop or completely withdraw without a W and receive a refund (less a nonrefundable \$40.00 processing fee), last date to change from credit-to-audit or audit-to-credit.  
 3. Grades will not be considered official until the end-of-term processing has been completed.

- Sunday, December 15 (2019) ..... Nonresident Application and Scholarship Deadline. In order to be considered for automatic scholarships, all admission materials for nonresident new and transfer students must be received in Admissions.
- Saturday, February 15 ..... Resident application and scholarship deadline. In order to be considered for automatic scholarships, all admission materials for Idaho new and transfer students must be received in Admissions.
- Tuesday, February 18 ..... Registration begins for Summer 2020.
- Tuesday, February 18 ..... Summer 2020 on-campus housing application available at noon.
- Tuesday, February 25 ..... Last day to submit *Application for Admission to Candidacy* form to the Graduate College for graduate degrees and certificates to be awarded August 2020.
- Friday, March 6 ..... Recommended last day to submit *2019-2020 Free Application for Federal Student Aid* (FAFSA) for financial aid to be ready for Summer 2020 fee payment deadline.
- Friday, May 1 ..... Deadline for first-time, degree-seeking, domestic undergraduate students who plan to enroll to submit online *Intent to Enroll* form and accompanying \$100.00 enrollment confirmation.
- Friday, May 1 ..... Standard application deadline for undergraduate, degree-seeking applicants to have all admission materials received by Admissions. Applicants who miss this application deadline will be considered for degree-seeking status on a space available basis. Students who are not eligible for degree-seeking admission may be considered for nondegree-seeking status and are ineligible for financial aid.
- Monday, May 25 ..... Memorial Day (No classes. University offices closed. )
- Friday, June 5 ..... Last day to apply for graduation for graduate and undergraduate degrees and certificates to be awarded in August 2020. Late applications will be accepted but a late fee will be assessed. Students apply for graduation on [myBoiseState.edu](http://myBoiseState.edu).
- Tuesday, June 9 ..... Summer financial aid census date. Pell Grant eligibility determined by number of credits registered on this date.
- Saturday, June 13 ..... Last day for students to work using 2019-2020 work-study awards.
- Friday, June 26 ..... Recommended last day for final oral dissertation, thesis, or project defense for graduate degrees to be awarded in August 2020.
- Tuesday, June 30 ..... Last day to submit *2019-2020 Free Application for Federal Student Aid* (FAFSA) to receive financial aid for Summer 2020.
- Wednesday, July 1 ..... Last day to add graduate assessment (master's preliminary examination, doctoral preliminary examination, thesis proposal, dissertation proposal, master's comprehensive examination, doctoral comprehensive examination), directed research, independent study, internship/practicum, or reading and conference.
- Wednesday, July 1 ..... Last day to add undergraduate independent study and internship.
- Friday, July 3 ..... Independence Day observed. (No classes. University offices closed. )
- Saturday, July 4 ..... Independence Day. (No classes. University offices closed. )
- Friday, July 10 ..... Last day for students who received a thesis or dissertation enrollment waiver to submit final version of thesis or dissertation to the Graduate College.
- Friday, July 10 ..... Last day to submit advisor-approved version of dissertation or thesis with signed *Final Reading Approval, Access Agreement for a Thesis or Dissertation or Embargo Request for a Thesis or Dissertation*, and *Thesis/Dissertation Checklist* to the Graduate College for graduate degrees to be awarded in August 2020.

- Friday, August 7 ..... Last day to submit final copies of dissertation or thesis to the Graduate College for graduate degrees to be awarded in August 2020.
- Friday, August 14 ..... Last day to submit an advisor-approved copy of thesis or dissertation, along with signed *Final Reading Approval, Access Agreement for a Thesis or Dissertation or Embargo Request for a Thesis or Dissertation*, and *Thesis/Dissertation Checklist* forms, to the Graduate College to receive a thesis or dissertation enrollment waiver for the subsequent semester.
- Saturday, August 15 ..... Summer housing ends. Residents transition to fall housing assignments.
- Tuesday, August 18 ..... Grade reports due on [myBoiseState](http://myBoiseState).

**FALL SEMESTER 2020**

| <b>Deadlines by Session—Fall 2020</b> |                             |                               |  |                        |  |   |  |                               |
|---------------------------------------|-----------------------------|-------------------------------|--|------------------------|--|---|--|-------------------------------|
| <b>Session<sup>1</sup></b>            | <b>Fee Payment Deadline</b> | <b>Start Date<sup>2</sup></b> | <b>Last Date to Register or Waitlist Without Permission Number</b> | <b>Drop Fee Begins</b> | <b>Last Date to Register or Drop without a W. Refund<sup>3</sup></b> | <b>Last Date to Drop or Completely Withdraw with a W. No Refund</b> | <b>Last Date of Course Instruction</b> | <b>Grades Due<sup>4</sup></b> |
| Regular                               | August 22                   | August 24                     | August 28  | August 30              | September 4  | October 30  | December 11                            | December 22                   |
| 1 <sup>st</sup> 5-week                | August 22                   | August 24                     | August 25  | August 28              | August 26  | September 15  | September 25                           | September 29                  |
| 2 <sup>nd</sup> 5-week                | September 26                | September 28                  | September 29   | October 2              | September 30   | October 20  | October 30                             | November 3                    |
| 3 <sup>rd</sup> 5-week                | October 31                  | November 2                    | November 3   | November 6             | November 4   | November 30   | December 11                            | December 22                   |
| 1 <sup>st</sup> 7-week                | August 22                   | August 24                     | August 26  | August 28              | August 27  | September 23  | October 9                              | October 13                    |
| 2 <sup>nd</sup> 7-week                | October 17                  | October 19                    | October 21   | October 23             | October 22   | November 18   | December 11                            | December 22                   |
| 1 <sup>st</sup> 10-week               | August 22                   | August 24                     | August 26  | August 29              | September 1  | October 8   | October 30                             | November 3                    |
| 2 <sup>nd</sup> 10-week               | September 26                | September 28                  | September 30   | October 3              | October 6  | November 12   | December 11                            | December 22                   |

1. Special Session 1 (SP1) and Special Session 2 (SP2) deadlines are available on the Registrar's Office website.  
 2. Complete withdrawals on or after this date are subject to a nonrefundable \$40.00 processing fee.  
 3. Last date to add with permission number, last date to drop or completely withdraw without a W and receive a refund (less a nonrefundable \$40.00 processing fee), last date to change from credit-to-audit or audit-to-credit.  
 4. Grades will not be considered official until the end-of-term processing has been completed.

- Tuesday, October 1 (2019) ..... The *2020-2021 Free Application for Federal Student Aid (FAFSA)* can be submitted beginning today.
- Sunday, December 15 (2019) ..... Nonresident application and scholarship deadline. In order to be considered for automatic scholarships, all admission materials for nonresident new and transfer students must be received in Admissions.
- Wednesday, January 15 ..... Recommended fall priority application deadline for graduate degree-seeking applicants to have all admission materials received by the Graduate College. In order to receive full consideration for fall admission, all applications must be complete and submitted to the Graduate College prior to the fall application deadline established by the individual graduate program.
- Saturday, February 15 ..... 2020-2021 FAFSA filing priority date for continuing students, new freshmen, and transfer students. Eligible students must apply by this date to maximize the amount of aid you receive. The priority filing date is not a deadline, so you may still submit the FAFSA even if the priority filing date has passed.
- Saturday, February 15 ..... Idaho resident application and scholarship deadline. In order to be considered for automatic scholarships for the 2020-2021 academic year, all admission materials for Idaho resident new and transfer students must be received in Admissions. Last day for the *Boise State Scholarship Application (online)* to be submitted to the Financial Aid Office. The Boise State Scholarship website contains a list of additional scholarships that require a separate application.
- Monday, March 16 ..... 2020-2021 academic year on-campus housing application available at noon for residence halls.
- Monday, March 30 ..... Registration for continuing students begins for Fall 2020 (by appointment).
- Monday, April 6 ..... Last day to submit *Application for Admission to Candidacy* form to the Graduate College for graduate degrees and certificates to be awarded in December 2020.
- Friday, May 1 ..... Deadline for first-time, degree-seeking, domestic undergraduate students who plan to enroll to submit online *Intent to Enroll* form and accompanying \$100.00 enrollment confirmation.
- Friday, May 1 ..... Standard application deadline for undergraduate, degree-seeking applicants to have all admission materials received by Admissions. Applicants who miss this application deadline will be considered for degree-seeking status on a space-available basis. Students who are not eligible for degree-seeking admission may be considered for nondegree-seeking status and are ineligible for financial aid.
- Friday, May 15 ..... Priority date for international student application materials to be received by International Admissions for fall semester consideration.

## 2020-2021 ACADEMIC CALENDAR

|                                     |  |
|-------------------------------------|--|
| Monday, June 1 .....                | Priority date to submit all requested financial aid documents to be eligible for 2020-2021 work-study funding and supplemental federal grants (SEOG). Funding for these programs is limited and available only to priority aid applicants.   |
| Wednesday, July 1 .....             | First day students can begin using 2020-2021 work-study awards.  |
| Saturday, July 25 .....             | First installment of payment plan due for residence halls (on-campus housing only).  |
| Monday, August 3 .....              | Recommended last day to submit a <i>Graduate Admission Application</i> to the Graduate College for Fall 2020 admission consideration.  |
| Friday, August 7 .....              | Recommended date to finalize student course schedules for Fall 2020 for financial aid purposes.  |
| Monday, August 17 .....             | University, college, and department activities for faculty begin this week.  |
| Tuesday, August 18 .....            | Registration for non-degree and open enrollment begins for Fall 2020.  |
| Friday, August 21 .....             | Convocation  |
| Monday, August 24 .....             | Course instruction begins.   |
| Friday, August 28 .....             | Weekend courses begin.   |
| Friday, August 28 .....             | Last day faculty may submit drops for nonattendance during the first week of the semester to the Registrar's Office.   |
| Friday, August 28 .....             | Deadline to apply for graduation for graduate and undergraduate degrees and certificates to be awarded in December 2020. Students apply for graduation on <a href="#">myBoiseState</a> . Late applications will be accepted but a late fee will be assessed.   |
| Friday, September 4 .....           | Last day to submit <i>Idaho Residency Determination Worksheet</i> with documentation to Registrar's Office to declare Idaho residency for Fall 2020 consideration.   |
| Friday, September 4 .....           | Fall financial aid census date. Pell Grant eligibility for financial aid determined by number of credits registered on this date.  |
| Friday, September 4 .....           | Last day for students living on campus to change residential meal plans.   |
| Friday, September 4 .....           | Last day to add graduate dissertation, thesis, project, or portfolio credit.   |
| Monday, September 7 .....           | Labor Day (No classes. University offices closed. )  |
| Wednesday, September 30 .....       | Last day to add undergraduate internship and independent study.  |
| Wednesday, September 30 .....       | Last day to add graduate assessment (master's preliminary examination, doctoral preliminary examination, thesis proposal, dissertation proposal, master's comprehensive examination, doctoral comprehensive examination), directed research, independent study, internship/practicum, or reading and conference.   |
| Monday, October 12 .....            | Columbus Day. Boise State celebrates Indigenous Peoples Day! (Classes in session. University offices open. )   |
| Friday, October 23 .....            | Recommended last day for final oral dissertation, thesis, or project defense for graduate degrees to be awarded in December 2020.  |
| Friday, November 6 .....            | Last day to submit advisor-approved version of dissertation or thesis with signed <i>Final Reading Approval, Access Agreement for a Thesis or Dissertation or Embargo Request for a Thesis or Dissertation</i> , and <i>Thesis/Dissertation Checklist</i> to the Graduate College for graduate degrees to be awarded in December 2020.   |
| Friday, November 6 .....            | Last day for students who received a thesis or dissertation enrollment waiver to submit final version of thesis or dissertation to the Graduate College.   |
| Monday, November 9 .....            | Veterans Day observed (Classes in session. University offices open. Official holiday November 11)  |
| Monday–Sunday, November 23–29 ..... | Thanksgiving holiday (No classes. University offices closed November 26-27. )  |
| Friday, December 11 .....           | Last day to submit final version of dissertation or thesis to the Graduate College for graduate degrees to be awarded in December 2020.  |
| Friday, December 11 .....           | Course instruction ends.   |
| Sunday, December 13 .....           | Weekend courses end.   |
| Monday–Friday, December 14–18 ..... | Final semester examinations for the Regular session. Exam schedule listed on Registrar's Office website.   |
| Friday, December 18 .....           | Last day to submit an advisor-approved copy of thesis or dissertation, along with signed <i>Final Reading Approval, Access Agreement for a Thesis or Dissertation or Embargo Request for a Thesis or Dissertation</i> , and <i>Thesis/Dissertation Checklist</i> forms, to the Graduate College to receive a thesis or dissertation enrollment waiver for the subsequent semester. |
| Saturday, December 19 .....         | Commencement   |
| Saturday, December 19 .....         | Winter break on-campus housing begins for residents with current housing assignment.   |
| Tuesday, December 22 .....          | Grade reports due on <a href="#">myBoiseState</a> .  |
| Thurs-Wed, December 24–30 .....     | Holiday Break (University offices closed. )  |
| Thursday, December 31 .....         | New Year's Eve (University offices closed. )   |
| Friday, January 1 .....             | New Year's Day (University offices closed. )   |

## SPRING SEMESTER 2021

| Deadlines by Session—Spring 2021 |                      |                         |   |                 |  |  |                                 |                         |
|----------------------------------|----------------------|-------------------------|---|-----------------|--|--|---------------------------------|-------------------------|
| Session <sup>1</sup>             | Fee Payment Deadline | Start Date <sup>2</sup> | Last Date to Register or Waitlist Without Permission Number | Drop Fee Begins | Last Date to Register or Drop without a W. Refund <sup>3</sup> | Last Date to Drop or Completely Withdraw with a W. No Refund | Last Date of Course Instruction | Grades Due <sup>4</sup> |
| Regular                          | January 9            | January 11              | January 15  | January 17      | January 25   | March 19   | April 30                        | May 11                  |
| 1 <sup>st</sup> 5-week           | January 9            | January 11              | January 12  | January 15      | January 13   | February 2   | February 12                     | February 16             |
| 2 <sup>nd</sup> 5-week           | February 13          | February 16             | February 17   | February 20     | February 18  | March 10   | March 19                        | March 23                |
| 3 <sup>rd</sup> 5-week           | March 27             | March 29                | March 30  | April 2         | March 31   | April 20   | April 30                        | May 11                  |
| 1 <sup>st</sup> 7-week           | January 9            | January 11              | January 13  | January 15      | January 14   | February 10  | February 26                     | March 2                 |
| 2 <sup>nd</sup> 7-week           | March 6              | March 8                 | March 10  | March 12        | March 11   | April 7  | April 30                        | May 11                  |
| 1 <sup>st</sup> 10-week          | January 9            | January 11              | January 13  | January 16      | January 20   | February 25  | March 19                        | March 23                |
| 2 <sup>nd</sup> 10-week          | February 13          | February 16             | February 18   | February 21     | February 24  | April 2  | April 30                        | May 11                  |

1. Special Session 1 (SP1) and Special Session 2 (SP2) deadlines are available on the Registrar's Office website.  
2. Complete withdrawals on or after this date are subject to a nonrefundable \$40.00 processing fee.  
3. Last date to add with permission number, last date to drop or completely withdraw without a W and receive a refund (less a nonrefundable \$40.00 processing fee), last date to change from credit-to-audit or audit-to-credit.  
4. Grades will not be considered official until the end-of-term processing has been completed.

- Tuesday, September 15 (2020) ..... Recommended spring priority application deadline for graduate degree-seeking applicants to have all admission materials received by the Graduate College. In order to receive full consideration for spring admission, all applications must be complete and submitted to the Graduate College prior to the spring application deadline established by the individual graduate program.
- Thursday, October 1 (2020) ..... Recommended last day to submit *2020-2021 Free Application for Federal Student Aid* (FAFSA) for financial aid to be ready for Spring 2021 fee payment deadline.
- Thursday, October 1 (2020) ..... Spring scholarship deadline. Last day to have all admission materials received in Admissions for new freshman and transfer students who want to be considered for scholarships for Spring 2021. The 2020-2021 FAFSA must be filed by this date to be considered for need-based scholarships.
- Thursday, October 1 (2020) ..... Spring 2021 on-campus housing application available at noon for residence halls.
- Thursday, October 15 (2020) ..... Priority date for international student application materials to be received by International Admissions for spring semester consideration.
- Monday, November 2 (2020) ..... Registration for continuing students begins for Spring 2021 (by appointment).
- Monday, November 9 (2020) ..... Last day to submit *Application for Admission to Candidacy* form to the Graduate College for graduate degrees and certificates to be awarded in May 2021.
- Sunday, November 15 (2020) ..... Standard application deadline for undergraduate, degree-seeking applicants to have all admission materials received by Admissions. Applicants who miss this application deadline will be considered for degree-seeking status on a space-available basis. Students who are not eligible for degree-seeking admission may be considered for nondegree-seeking status and are ineligible for financial aid.
- Tuesday, December 1 (2020) ..... Deadline for first-time, degree-seeking, domestic undergraduate students who plan to enroll to submit online *Intent to Enroll* form and accompanying \$100.00 enrollment confirmation.
- Wednesday, December 16 (2020) ..... Registration for non-degree and open enrollment begins.
- Monday, December 28 (2020) ..... Recommended date to finalize student course schedules for Spring 2021 for financial aid purposes.
- Monday, December 28 (2020) ..... Recommended last day to submit a *Graduate Admission Application* to the Graduate College for Spring 2021 admission consideration.
- Monday, January 4 ..... University, college, and department activities for faculty begin this week.
- Saturday, January 9 ..... Residence halls check-in for new residents begins at noon.
- Monday, January 11 ..... Course instruction begins.
- Friday, January 15 ..... Weekend courses begin.
- Friday, January 15 ..... Last day faculty may submit drops for nonattendance during the first week of the semester to the Registrar's Office.
- Friday, January 15 ..... Deadline to apply for graduation for graduate and undergraduate degrees and certificates to be awarded in May 2021. Students apply for graduation on [myBoiseState](https://myboisestate.edu). Late applications will be accepted but a late fee will be assessed.
- Monday, January 18 ..... Dr. Martin Luther King, Jr. /Idaho Human Rights Day (No classes. University offices closed. )
- Monday, January 25 ..... Last day for students living on campus to change residential meal plans.

## 2020-2021 ACADEMIC CALENDAR

|                                  |  |
|----------------------------------|--|
| Monday, January 25 .....         | Spring financial aid census date. Pell Grant eligibility determined by number of credits registered on this date.  |
| Monday, January 25 .....         | Last day to add graduate dissertation, thesis, project, or portfolio credit.   |
| Monday, January 25 .....         | Last day to submit <i>Idaho Residency Determination Worksheet</i> with documentation to Registrar's Office to declare Idaho residency for Spring 2021 consideration.   |
| Monday, February 15 .....        | Presidents' Day (No classes. University offices closed. )  |
| Friday, February 19 .....        | Last day to add undergraduate internship and independent study.  |
| Friday, February 19 .....        | Last day to add graduate assessment (master's preliminary examination, doctoral preliminary examination, thesis proposal, dissertation proposal, master's comprehensive examination, doctoral comprehensive examination), directed research, independent study, internship/practicum, or reading and conference.   |
| Friday, March 12 .....           | Recommended last day for final oral dissertation, thesis, or project defense for graduate degrees to be awarded in May 2021.   |
| Friday, March 19 .....           | Last day for students who received a thesis or dissertation enrollment waiver to submit final version of thesis or dissertation to the Graduate College.   |
| Friday, March 19 .....           | Last day to submit advisor-approved version of dissertation or thesis with signed <i>Final Reading Approval, Access Agreement for a Thesis or Dissertation or Embargo Request for a Thesis or Dissertation</i> , and <i>Thesis/Dissertation Checklist</i> to the Graduate College for graduate degrees to be awarded in May 2021.  |
| Monday–Friday, March 22–26 ..... | Spring Break (No Classes. University offices open March 22-26. )   |
| Friday, April 30 .....           | Course instruction ends.   |
| Friday, April 30 .....           | Last day to submit final version of dissertation or thesis to the Graduate College for graduate degrees to be awarded in May 2021.   |
| Sunday, May 2 .....              | Weekend courses end.   |
| Monday–Friday, May 3–7 .....     | Final semester examinations for the Regular session. Exam schedule listed on the Registrar's Office website.   |
| Friday, May 7 .....              | Last day to submit an advisor-approved copy of thesis or dissertation, along with signed <i>Final Reading Approval, Access Agreement for a Thesis or Dissertation or Embargo Request for a Thesis or Dissertation</i> , and <i>Thesis/Dissertation Checklist</i> forms, to the Graduate College to receive a thesis or dissertation enrollment waiver for the subsequent semester. |
| Saturday, May 8 .....            | Residence halls, suites, and townhomes close at noon.  |
| Saturday, May 8 .....            | Commencement (Morning ceremony at 9:30 a. m. and afternoon ceremony at 3:30 p. m. )  |
| Tuesday, May 11 .....            | Grade reports due on <a href="#">myBoiseState</a> .  |



# Chapter 1—An Introduction to Boise State University

## The City of Boise

Located along the Boise River in the shadows of the beautiful Rocky Mountain foothills, Boise State University is a vital component of Idaho's capital city, a hub of business, the arts, health care, industry, technology and the power and politics of the Statehouse.

A 10-minute stroll from campus puts you downtown, where businesses cater to the college crowd, making it easy to take advantage of coffeehouses, restaurants, dance clubs and the city's thriving cultural and entertainment scene. Even with big city amenities, Boise offers a safe, small-town feel and has repeatedly been named in the Top 10 for business, lifestyle and great outdoor recreation.

The City of Trees offers many unique attractions, including the Basque Museum and Cultural Center, Idaho Anne Frank Human Rights Memorial, the Idaho Shakespeare Festival, the World Center for Birds of Prey and a whitewater park on the Boise River.

The Boise Greenbelt, a more than 20-mile network of city parks and riverside paths, skirts the edge of campus. A footbridge spans the Boise River, linking Boise State to Julia Davis Park, home of the Boise Art Museum, Idaho State Museum, Idaho Black History Museum and Zoo Boise.

Beyond the city is a land of great variety. To the south are rich farmlands, a rugged, high-mountain desert, North America's tallest sand dunes and the famous Snake River Birds of Prey National Conservation Area. To the north, forests, whitewater rivers and mountain lakes provide opportunities for fishing, hiking, hunting and kayaking. Bogus Basin ski resort is just 16 miles from campus and world-famous Sun Valley is less than three hours away.

Campus entertainment includes Idaho Dance Theatre, Opera Idaho, Ballet Idaho, the Gene Harris Jazz Festival, Boise Philharmonic and a variety of other university and civic performing arts groups. Nationally renowned artists and touring companies like Elton John, Jimmy Buffet, Cirque du Soleil and Wicked frequently perform in the Morrison Center for the Performing Arts and ExtraMile Arena on campus. In addition, ExtraMile Arena hosts a number of campus and national sporting events.

## Mission

Boise State University is a public, metropolitan research university providing leadership in academics, research and civic engagement. The university offers an array of undergraduate degrees and experiences that foster student success, lifelong learning, community engagement, innovation and creativity. Research, creative activity and graduate programs, including select doctoral degrees, advance new knowledge and benefit the community, the state and the nation. The university is an integral part of its metropolitan environment and is engaged in its economic vitality, policy issues, professional and continuing education programming, and cultural enrichment.

## Vision and Strategic Plan

Boise State University strives to be known not only for the region's finest undergraduate education, but also for outstanding research and graduate programs. With its exceptional faculty, staff, students and location, Boise State is an engine that drives the Idaho economy, providing significant return on public investment.

To achieve this vision, the university developed the goals and strategies of our strategic plan, *Focus on Effectiveness 2012-2020*. The goals and strategies are:

### Goal 1: Create a signature, high-quality educational experience for all students.

- Objective A: Develop the University Foundations Program into a memorable centerpiece of the undergraduate experience.
- Objective B: Provide a relevant, impactful educational experience that includes opportunities within and across disciplines for experiential learning.
- Objective C: Cultivate intellectual community among students and faculty and facilitate respect for the diversity of human cultures, institutions, and experiences.

### Goal 2: Facilitate the timely attainment of educational goals of our diverse student population.

- Objective A: Design and implement innovative policies and procedures that remove barriers to graduation and facilitate student success.
- Objective B: Ensure that faculty and staff understand their responsibilities in facilitating student success.
- Objective C: Bring classes to students using advanced technologies and multiple delivery formats.

### Goal 3: Gain distinction as a doctoral research university.

- Objective A: Build infrastructure for research and creative activity; support and reward interdisciplinary collaboration; and recruit, retain, and support highly qualified faculty, staff, and students from diverse backgrounds.
- Objective B: Identify and invest in select areas of excellence with the greatest potential for economic, societal, and cultural benefit, including the creation of select doctoral programs with a priority in professional and STEM disciplines.

### Goal 4: Align university programs and activities with community needs.

- Objective A: Include community impact in the creation and assessment of university programs and activities.
- Objective B: Increase student recruitment, retention, and graduation in STEM disciplines.
- Objective C: Collaborate with external partners to increase Idaho student's readiness for and enrollment in higher education.
- Objective D: Leverage knowledge and expertise within the community to develop mutually beneficial partnerships. Evaluate our institutional impact and effectiveness on a regular basis and publicize results.

### Goal 5: Transform our operations to serve the contemporary mission of the university.

- Objective A: Increase organizational effectiveness by reinventing our business practices, simplifying or eliminating policies, investing in faculty and staff, breaking down silos, and using reliable data to inform decision-making.
- Objective B: Diversify sources of funding and allocate resources strategically to promote innovation, effectiveness, and responsible risk-taking.

Our strategic plan is built around four solid pillars of growth and responsibility:

**Local and Global Impact:** Boise State fuels a robust regional economy and contributes to a vibrant and healthy community by focusing on societal and economic needs. Graduates can rely on skills, knowledge and experience that are relevant and valuable locally, regionally, nationally and globally.

**Student Success and Engagement:** The university reflects a rich and diverse culture that is student centered, enabling them to focus on success and the achievement of educational goals. Graduates are prepared to meet the challenges and pursue the opportunities of today and tomorrow, while developing an enduring bond with the university.

**Visionary Relationships:** Strong campus/community relationships create synergistic opportunities that enable the university to explore new possibilities, address complex problems, break down barriers, and create learning experiences that synthesize ideas and practices across multiple perspectives.

**Organizational Effectiveness:** Boise State pursues innovative, broad-based funding models to ensure sustainable acquisition of resources and garner support from stakeholders by explicitly demonstrating return on investment.

## The University's History

In 1932, the Episcopal Church founded Boise Junior College, the first post-secondary school in Idaho's capital city. When the Episcopal Church discontinued its sponsorship in 1934, Boise Junior College became a nonprofit, private corporation sponsored by the Boise Chamber of Commerce and the community. In 1939, the State Legislature created a junior-college taxing district to fund the quickly growing institution.

By the end of the 1930s, Boise Junior College boasted an enrollment of 600 students. Originally located at St. Margaret's Hall near the present site of St. Luke's Regional Medical Center, the college was moved in 1940 to its present location alongside the Boise River. In 1965, Boise Junior College became a four-year institution and was renamed Boise College. In 1969, the college was brought into the state system of higher education as Boise State College. The Graduate College was established in 1971 and the creation of new graduate programs in 1974 led to the designation of the institution as Boise State University.

Boise State is the largest institution of higher education in Idaho with more than 28,000 students. During its history, Boise State University has operated under the leadership of seven presidents: Bishop Middleton Barnwell (1932-1934), Dr. Eugene B. Chaffee (1936-1967), Dr. John B. Barnes (1967-1977), Dr. John H. Keiser (1978-1991), Dr. Charles P. Ruch (1993-2003), Dr. Robert W. Kustra (2003-2018), and Dr. Marlene Tromp (2019-present).

## Accreditation

Boise State University is accredited by the Northwest Commission on Colleges and Universities (NWCCU).

Accreditation of an institution of higher education by the Northwest Commission on Colleges and Universities indicates that it meets or exceeds criteria for the assessment of institutional quality evaluated through a peer review process. An accredited college or university is one that has available the necessary resources to achieve its stated purposes through appropriate educational programs, is substantially doing so, and gives reasonable evidence that it will continue to do so in the foreseeable future. Institutional integrity is also addressed through accreditation.

Accreditation by the Northwest Commission on Colleges and Universities is not partial, but applies to the institution as a whole. As such, it is not a guarantee of every course or program offered, or the competence of individual graduates. Rather, it provides reasonable assurance about the quality of opportunities available to students who attend the institution.

Inquiries regarding an institution's accredited status by the Northwest Commission on Colleges and Universities should be directed to the administrative staff of the Office of the Provost. Individuals may also contact: Northwest Commission on Colleges and Universities, 8060 165<sup>th</sup> Avenue N. E., Suite 100, Redmond, WA 98052, (425) 558-4224, <https://www.nwccu.org/>.

Many of Boise State University's academic programs have special accreditation or endorsement from one or more of the following organizations:

- ABET, Inc.
- Accreditation Council for Genetic Counseling
- American Chemical Society
- American Council for Construction Education
- American Health Information Management Association
- Association to Advance Collegiate Schools of Business-International
- Commission on Accreditation of Allied Health Education Programs
- Committee on Accreditation of Athletic Training Education
- Committee on Accreditation for Respiratory Care
- Commission on Collegiate Nursing Education (CCNE)
- Council for Accreditation of Counseling and Related Educational Programs
- Council for Accreditation of Educator Preparation
- Council on Social Work Education
- Joint Review Committee on Education in Radiologic Technology

- National Association of Schools of Art and Design
- National Association of Schools of Music
- National Association of Schools of Public Affairs and Administration
- National Association of Schools of Theater
- National Association of State Directors of Teacher Education and Certification
- National Environmental Health Science and Protection Accreditation Council
- Society for Simulation in Healthcare (SSH)

## State Authorization and Online Education Beyond Idaho

Boise State University delivers online education programs and courses throughout the United States and internationally and online offerings continue to expand. Idaho's State Board of Education has approved all programs.

Due in part to the increased popularity of online education, many states have prescribed an "authorization" process for out-of-state institutions delivering online programs to its state residents. Through such proactive processes, states are striving to ensure quality post-secondary education, to preserve the integrity of an academic degree and to instill greater consumer protection for its citizens.

Authorization (sometimes referred to as "registration," "licensure," "approval," etc.) indicates that the institution has met certain minimum standards under the laws and regulations of that state. Authorization does not constitute an endorsement of any institution, course or degree program. Credits earned at an institution may not transfer to all other institutions.

Boise State has taken steps to protect its students and operations through nationwide compliance and currently participates in a voluntary State Authorization Reciprocity Agreement (SARA) encompassing all states except California. Boise State can operate without state authorization in California because it is a public accredited institution.

Individuals considering a course or program in preparation for professional licensing or certification outside Idaho are encouraged to seek guidance from the pertinent licensing agency in that state in advance of application and periodically thereafter.

Some online programs may not be available in some states or may not be designed to prepare a student for professional licensure. Please contact the academic department before submitting an application. More specific information about program availability and professional licensure can be found at: <https://www.boisestate.edu/online/>.

## Students and Faculty

Students come to Boise State University from every county in Idaho, from nearly every state in the nation, and from numerous foreign countries. The university's urban setting attracts and complements this diverse student body, which includes nontraditional students, as well as those enrolling directly from high school.

At Boise State, students can study public health, raptor research, musical performance, educational technology, hydrologic sciences, civil engineering or close to 200 other topics. The university offers 12 doctoral degrees, 68 master's degrees, 24 graduate certificates, 90 bachelor's degrees, 4 associate degrees, and 37 undergraduate certificates.

Thanks to Boise State's location in the heart of Idaho's largest and most vibrant city, it affords experiences and opportunities reaching beyond the classroom that are unavailable elsewhere in the state. For instance, students can enhance classroom learning and gain valuable work experience by interning with the state Legislature, government agencies, or one of the many private businesses or industries in the area. They also can study abroad in more than 50 countries.

Boise State faculty members are dedicated to excellence in teaching, research and creative activity. Students have the opportunity to work with and study under some of the West's and region's most respected scientists, artists, researchers and educators.

In addition to helping students learn, faculty members are generous in using their expertise to help solve society's problems. They assist business, industry, educational institutions, government agencies and professional groups with educational programs and research-and-development efforts. The university also works with a variety of organizations in creating and implementing programs to upgrade the knowledge and skills of their employees.

## A Tour of the Campus

Boise State University's 216-acre main campus is bordered to the north by the Boise River, to the east by Broadway Avenue, to the west by Capitol Boulevard and to the south by Beacon Street with University Drive as the primary artery. Step across the footbridge spanning the Boise River, and you are in the open green space of Julia Davis Park.

On campus, the Administration Building contains the offices of several student services, including Financial Aid and the Registrar. University Health Services—including all medical, counseling, and wellness—are integrated under one roof in the Norco Nursing and Health Sciences Building. The Advising and Academic Support Center and the Testing Center are located together in the Simplot/Micron Advising and Success Hub.

Classes are held in a number of buildings, including the Bronco Gym and Department of Kinesiology Building, Micron Business and Economics Building (which houses a financial trading room and a student commons area), Campus School, Education Building, Charles P. Ruch Engineering Building, Fine Arts Building, Liberal Arts Building, Mathematics Building, Micron Engineering Center, Morrison Civil Engineering Building, and the Multipurpose Classroom Building. The Interactive Learning Center supports the latest in technology with 12 general-use classrooms, multimedia labs, and a classroom for research and innovation. It also is home to the Center for Teaching and Learning.

Other notable campus features include the Albertsons Library, as well as the Centennial Amphitheatre—an outdoor venue for lectures, concerts and plays. The Velma V. Morrison Center for the Performing Arts houses the Department of Music, the Department of Theatre, Film, and Creative Writing, a 2,000-seat performance hall, a 200-seat recital hall and a 200-seat theater. The Student Recreation Center houses informal recreation, intramural sports, outdoor programs, fitness opportunities, a wellness center and athletic training facilities. The facility boasts a 17,000-square-foot Aquatics Center.

Boise State students also enjoy the Student Union, which provides facilities for social, recreational and cultural activities. In addition to dining areas, the Student Union contains a bowling alley and games center, several lounges, the Boise State Bookstore and the Bronco Shop. While at the Student Union, you can stop by the Information Desk to pick up tickets for campus programs and community events, or visit the offices of more than 200 recognized student organizations. Admissions is located on the first floor. The west entrance and Transit Center is a spacious and furnished entry to the Student Union where patrons can wait inside or outside for shuttles and public transportation that stop in front of the open sidewalk area.

ExtraMile Arena is Idaho's largest multipurpose arena. When not filled with fans of Bronco basketball or gymnastics, ExtraMile Arena is the site of concerts, professional sporting events and family entertainment. Nearby is Albertsons Stadium, with a seating capacity of 36,387 and the university's iconic blue playing field.

## Albertsons Library

**Dean: Tracy Bicknell-Holmes**

**Associate Dean: Michelle Armstrong**

(208) 426-1204 (phone)

Albertsons Library is a vibrant hub of academic activity in the center of campus, providing access to an extensive array of online journals, databases, newspapers, books, e-books, and resources for research and learning, including numerous discipline-specific and specialty databases, U.S. government documents and maps, or more information, see <https://library.boisestate.edu>.

You have access to all library online resources both on and off campus. If the library does not have what you need, it may be borrowed for you from other libraries through a service called Interlibrary Loan. Albertsons Library offers a host of other materials for checkout including laptops, iPads, cables, adaptors, cameras and other audiovisual equipment and technology such as Raspberry PI, Arduinos, vinyl cutters, and vacuum formers. If your mobile device battery is running low, the library has an array of charging devices.

Study spaces for individuals and groups are available throughout the library. There's also a room dedicated to sound recording and editing, and a video production studio with green screen technology. As the largest computer lab on campus with the longest hours, there are over 120 desktop computers (Mac and PC) and a variety of printers, including a plotter printer for printing large scale items such as presentation posters.

In the library's MakerLab, students can use 3D printers, a laser cutter, a CNC milling machine, vinyl cutter, sewing machines, and other technology, see <https://boisestate.edu/library-makerlab/>. Workshops are offered regularly to teach you how to get started in 3D modeling and more. The MakerLab is a radically inclusive community with a clear pipeline to fabrication resources, entrepreneurial support, and information resources. Users come to the space to collaborate, build, hack, invent, share, make, and do.

Special Collections and Archives (SCA) contains manuscripts, rare books, Basque studies material, and the university archives, see <https://archives.boisestate.edu/>. Selected unique resources from these collections are being digitized and made available online. SCA houses the papers of Senator Len B. Jordan, Senator Frank Church, and Interior Secretary/Governor Cecil D. Andrus, and the Cecil D. Andrus and Frank Church rooms. Nearby, the Warren McCain Reading Room contains a growing collection of books and materials about the literature, anthropology and history of the American West and the Westward Movement.

Library faculty (librarians) provide assistance and research guidance in person, and online via text, chat and email. Schedule an individual research consultations to help you start a thesis or dissertation, or invite them into the classroom to support class assignments and research. Librarians are subject experts who can help you craft effective research assignments, and they welcome opportunities to help you in your pursuit of a degree.

## Technology Resources

Public computers and kiosks are located in most campus locations where students attend class and congregate, and provide access to a wide variety of software on Windows and Mac computers.

BroncoPrint copy, print, and scan stations are available throughout campus. You will also have the option to install wireless printing software to wirelessly print to these stations from mobile devices.

In addition, laptops, tablets, and audio recording devices are available for you to check out from Zone locations in the Student Union Building and Interactive Learning Center. These Zone locations also provide free concierge support and assistance for personal computers, hardware, and software. For more information, see <https://www.boisestate.edu/oit/>.

Boise State University provides G Suite (Google Apps) accounts for all students, including BroncoMail Gmail accounts.

As a Boise State student, you will have the opportunity to learn to use computers in ways appropriate to your discipline. For more information about the computer skills required in your discipline, please see the major requirements in Chapter 12—*Academic Programs and Courses* or consult your academic advisor.

## Athletics

The purpose of the intercollegiate athletic program at Boise State University is twofold. First, to provide opportunities for a meaningful academic and athletic experience for as many students as possible. Second, to develop and maintain a competitive Division I athletic program that competes on a regional and national basis and strives for excellence in both men's and women's athletics within the boundaries of integrity and honesty.

The athletic program is an integral part of the university and its total educational purpose. The objectives of the athletic program are in harmony with the mission and role of the university.

The university adheres to the principles of fair play and amateur athletic competition as defined by the NCAA. The university is concerned with the welfare of the student-athlete and strives to ensure that every student-athlete has the opportunity to succeed academically and obtain a degree.

The university competes as a member of the Mountain Western Conference (MWC) in football, baseball, men's and women's basketball, men's and women's golf, men's and women's tennis, men's and women's indoor and outdoor track and field and cross country, women's soccer, softball, women's swimming and diving, and women's volleyball. The university competes in the Mountain Rim Gymnastics Conference (MRGC) in women's gymnastics. Students who wish to participate in intercollegiate athletics should contact the assistant coach of the sport, for which they wish to participate. If the program does not have an assistant coach, please contact the head coach. A listing of coaches is provided on the athletic department website at <https://brncosports.com>.

The *Equity in Athletics Disclosure Report for Boise State University* is available online at <https://ope.ed.gov/athletics/#/>. The report provides participation rates, financial support, and other information on men's and women's intercollegiate athletic programs.

## Academic Structure of the University

Boise State University is organized into eight colleges and one school. The colleges that make up Boise State offer the opportunity to pursue your education in nearly 200 major fields of interest. Within these major fields of interest, the university awards a wide variety of degrees and certificates. (See Chapter 11—*Summary of Programs and Courses* for a complete list of degrees, majors, minors, certificates, and transfer programs offered at Boise State. )

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|--|---|
| <i>College of Arts and Sciences</i>      | Anthropology<br>Associate of Arts/Science Programs<br>Bachelor of Applied Sciences<br>Biological Sciences<br>Chemistry and Biochemistry<br>Communication and Media<br>English<br>Gender Studies<br>Geosciences<br>History<br>Interdisciplinary Studies<br>Mathematics<br>Multidisciplinary Studies<br>Philosophy<br>Physics<br>Psychological Science<br>School of the Arts<br>Art, Design, and Visual Studies<br>Music<br>Theatre, Film, and Creative Writing<br>Sociology<br>World Languages |
| <i>College of Business and Economics</i> | Accountancy<br>Economics<br>Finance<br>Information Technology and Supply Chain Management<br>Management<br>Marketing  |
| <i>College of Education</i>              | Counselor Education<br>Curriculum, Instruction, and Foundational Studies<br>Early and Special Education<br>Educational Technology<br>Literacy, Language, and Culture  |
| <i>College of Engineering</i>            | Civil Engineering<br>Computer Science<br>Construction Management<br>Electrical and Computer Engineering<br>Mechanical and Biomedical Engineering<br>Micron School of Materials Science and Engineering<br>Organizational Performance and Workplace Learning   |
| <i>College of Health Sciences</i>        | School of Allied Health Sciences<br>Kinesiology<br>Radiologic Sciences<br>Respiratory Care<br>School of Nursing<br>School of Social Work<br>Community and Environmental Health  |
| <i>College of Innovation and Design</i>  | Games, Interactive Media, and Mobile Program<br>Leadership and Human Relations Program  |
| <i>School of Public Service</i>          | Criminal Justice<br>Environmental Studies<br>Global Studies<br>Military Science (Army ROTC)<br>Political Science<br>Public Policy and Administration<br>Urban Studies and Community Development   |
| <i>Graduate College</i>                  | Graduate programs and courses   |
| <i>Honors College</i>                    | Honors Program and Honors courses   |

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## College of Arts and Sciences

**Interim Dean: Leslie Durham, PhD**

**Associate Dean: Doug Bullock, PhD**

**Associate Dean: Clyde J. Northrup, PhD**

**Interim Associate Dean: Kathleen Keys, PhD**

**Interim Associate Dean: Kelly Myers, PhD**

Education Building, 6<sup>th</sup> Floor, Room 601

(208) 426-1414 (phone)

(208) 426-3006 (fax)

### Mission

As the university's largest and most comprehensive academic unit, the College of Arts and Sciences enjoys a broad mission in teaching, research and creative activity, and service. In teaching, the College of Arts and Sciences offers a general education curriculum that prepares undergraduate students by developing their communication, numerical, and analytical skills; enhancing their creative abilities; fostering in them a greater awareness of human values and needs; and encouraging in them a lifelong appreciation of learning for its own sake.

Additionally, the college offers strong undergraduate and graduate programs for students of the arts, humanities, and natural and social sciences, and a full array of elective and service courses for students majoring in other subjects.

In research, the college generates and disseminates knowledge through basic and applied research, scholarship, and creative activity, thereby enhancing the scientific, technological, humanistic, and cultural environment of the state, the region, and the larger society.

In service, the college meets the educational, economic, and cultural needs of the state through research, publications, workshops, and a rich diversity of cultural events.

### Academic Advising

Students are assisted in selecting appropriate courses and major programs of study through the joint efforts of faculty advisors and centralized advising services. Freshmen, sophomores, and new transfer students should contact the College of Arts and Sciences Center for Advising and Student Success, located in Riverfront Hall, Room 117, (208) 426-2663, [coas-advising@boisestate.edu](mailto:coas-advising@boisestate.edu) to begin the advising process.

### Accreditation

Several departments and programs in the College of Arts and Sciences are eligible for specialized accreditation. The Art, Design, and Visual Studies Department is accredited by the National Association of Schools of Art and Design; the Chemistry Department offers a BS degree that is certified by the American Chemical Society; the Music Department is accredited by the National Association of Schools of Music; and the Theatre, Film, and Creative Writing Department is accredited by the National Association of Schools of Theatre.

### Internships

Students are encouraged to participate in internship experiences during their college career. These internships, which may provide university credit, can be in the form of part-time employment during the school year or full- or part-time employment during the summer. Information about internship opportunities is available from a student's home department.

### Program Admission

Students may freely declare a major in any undergraduate program in the college with one exception: the Music Department requires an audition for all incoming Music majors. Detailed information about these admission processes are available on the respective department's website.

### Scholarships

Students are strongly encouraged to apply for scholarships. Significant scholarship support may be available for students in the college who demonstrate high scholastic achievement. Information about scholarships is available in the Financial Aid Office, Administration Building, Room 113, (208) 426-1664, and online at <https://www.boisestate.edu/scholarships/>.

Interested students should contact their home department for more information about specific scholarships.

### Student Organizations

Dozens of student organizations are affiliated with the college and its sixteen departments. These organizations span a variety of interests and bring students together to promote and celebrate academic achievement, cultural diversity, visual and performing arts, and service. A list of officially recognized student organizations can be found at: <https://boisestate.orgsync.com/Organizations>.

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## College of Business and Economics

**Dean: Mark Bannister, PhD**

Micron Business and Economics Building, Room 3138

**Associate Dean, Faculty and Administrative Affairs: Diane Schooley-Pettis, PhD**

Micron Business and Economics Building, Room 3140

**Associate Dean, Academic Programs: Kit Scott, PhD**

Micron Business and Economics Building, Room 3142

**Director, COBE Student Services Center: Matt Steuart**

Micron Business and Economics Building, Room 1213

(208) 426-3859 (phone)

**Director, COBE Career Services Center: Laura Chiuppi**

Micron Business and Economics Building, Room 1123

(208) 426-3862 (phone)

<https://www.boisestate.edu/cobe/> (website)

### Mission

We are a collaborative, engaged, and dynamic community of learners. We inspire our students and colleagues to achieve their full potential by creating and sharing relevant knowledge, skills and experiences for the benefit of local and global communities.

### Values

- Relevance
- Respect
- Responsibility

### Accreditation

Undergraduate and graduate programs in the College of Business and Economics (COBE) are accredited by AACSB International—The Association to Advance Collegiate Schools of Business. This is a distinction held by less than five percent of the world's top business schools.

The college's accountancy programs are also accredited by AACSB International—The Association to Advance Collegiate Schools of Business. Only a very small percentage of accounting programs world-wide have attained this recognition.

### Career Services and Internships

COBE Career Services is a distinctive, business focused career center. Career coordinators are available to educate and advise students with career development and planning through one-on-one advising and workshops. Additionally, COBE Career Services connects students to pre and post-graduation opportunities through company partnerships and events.

Internships are ideal experiential learning opportunities. They help develop and apply academic skills students have learned in a professional setting. Students will walk away from an internship having gained hands-on experience, a bigger professional network, and the chance to explore different career paths.

While it is the responsibility of the student to find and secure their internship, COBE Career Services understands the landscape and is available to guide students through the process while assisting students in bolstering their networking. Academic credit may be awarded upon meeting departmental guidelines through an application process at the beginning of the semester that the internship is being conducted. For-credit internships will be supervised jointly between the business supervisor and a COBE faculty member. For a list of available internships visit <https://www.boisestate.edu/cobe-careers/>. For more information, call COBE Career Services at (208) 426-3862.

### Student Advising

The College of Business and Economics requires advising for all students each semester before registration is permitted. Students are assisted in selecting a program of study and required coursework. All College of Business and Economics students can contact COBE Advising Services for assistance in the following areas:

- Business Major/Minor exploration
- Semester Course Scheduling
- Course Sequencing
- Graduation Planning
- Admittance to the college
- Academic Appeals and Adjustments
- General Advising Questions
- Advising Hold Removal for Registration
- Financial Aid appeals

Micron Business and Economics Building, Room 1213, (208) 426-3859, [cobeadvising@boisestate.edu](mailto:cobeadvising@boisestate.edu)

### Student Scholarships

Scholarships are available to students demonstrating potential for excellence in business studies. More than \$250,000 is distributed each year among College of Business and Economics majors. Students must submit the appropriate applications by February 15. Interested students should contact Student Financial Aid, Administration Building, Room 113, (208) 426-1664 or visit <https://www.boisestate.edu/financialaid/> and <https://www.boisestate.edu/cobe/students/>.

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## College of Education

### Interim Dean: Jennifer Snow, PhD

Education Building, Room 704  
(208) 426-1611 (phone)  
(208) 426-4408 (fax)  
[jennifersnow@boisestate.edu](mailto:jennifersnow@boisestate.edu) (email)

### Interim Associate Dean for Undergraduate Studies: Deb Carter, PhD

Education Building, Room 706  
(208) 426-1991 (phone)  
[debcarter@boisestate.edu](mailto:debcarter@boisestate.edu) (email)

### Associate Dean for Research and Advanced Programs, Keith Thiede, PhD

Education Building, Room 705  
(208) 426-1278 (phone)  
[keiththiede@boisestate.edu](mailto:keiththiede@boisestate.edu) (email)

<https://www.boisestate.edu/education/> (website)

### Vision

The College of Education will be a leader in integrated teaching and learning, the advancement of knowledge through research and scholarship, and the preparation of professionals who provide exemplary educational and related services to improve the lives of individuals in a changing and complex global society.

### Mission

The mission of the College of Education at Boise State University is to prepare professionals using models that incorporate integrated teaching and learning practices to ensure high levels of knowledge and skill, commitment to democratic values, and the ability to work with a diverse population. As part of the only metropolitan institution in Idaho, the College of Education provides a collegial environment that supports a wide range of research and scholarly activity intended to advance knowledge and translate knowledge into improved practice at the local, national, and international levels. The college promotes the healthy development of society through outreach, partnership, and technical assistance activities that focuses on organizational renewal. It advances personal excellence and respect for individuals.

### Accreditation

Undergraduate and graduate teacher education programs are accredited by the Council for the Accreditation of Educator Preparation (CAEP). The Professional Standards Commission of the Idaho State Department of Education approves all teacher education programs. The Counselor Education Program is accredited by the Council for Accreditation of Counseling and Related Educational Programs (CACREP).

### Teacher Certification

The College of Education is responsible for ensuring that teacher education candidates who wish to become certified teachers in the state of Idaho meet all requirements outlined in the Idaho Education Laws and Rules. Candidates must:

- be duly admitted to an approved teacher education program;
- complete all coursework requirements in an approved program of study;
- complete student teaching;
- maintain a minimum grade-point average overall, in general education courses, and in education courses;
- be of good moral character;
- have no criminal conviction that would be grounds for revocation of a teaching certificate (section 33-1208 of the Idaho Education Laws and Rules); and
- be approved for recommendation by the college.

## Academic Advising

The College of Education offers advising to teacher education students through the Teacher Education Academic Advising Office, (208) 426-2756. Students are also advised by the faculty of the department where the program major is housed. Teacher Education staff are responsible for overseeing the development of cooperative and collaborative arrangements with our public and private school partners, including professional development schools, and coordinate all field experiences and applications for certification. Teacher Education faculty and staff assist students with questions related to field placements, certification requirements, required tests, admission to and continuation in the teacher education programs, and completing the application process for licensure.

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## College of Engineering

### Dean: JoAnn S. Lighty, PhD

1015 Grant Avenue, 2<sup>nd</sup> Floor  
(208) 426-1153 (phone)  
(208) 426-4466 (fax)

### Associate Dean for Undergraduate Studies: Sondra M. Miller, PhD, PE

(208) 426-2894 (phone)  
sondramiller1@boisestate.edu (email)

### Assistant Dean for Undergraduate Affairs: Diana Garza

(208) 426-2685 (phone)  
dianagarza@boisestate.edu (email)

### Associate Dean for Graduate Studies: Maria Mitkova, PhD

(208) 426-1319 (phone)  
mariamitkova@boisestate.edu (email)

### Assistant Dean for Research and Infrastructure: Rex Oxford

(208) 426-5744 (phone)  
roxford@boisestate.edu (email)

<https://coen.boisestate.edu/> (website)

## Accreditation

The undergraduate programs in civil, electrical, materials science and engineering, and mechanical engineering are accredited by the Engineering Accreditation Commission of ABET, <http://www.abet.org/>.

The undergraduate program in computer science is accredited by the Computing Accreditation Commission of ABET, <http://www.abet.org/>.

The program in construction management is accredited by the American Council for Construction Education, 1717 North Loop 1604 East, Suite 320, San Antonio, TX 78232-1570, (210) 495-6161, <http://www.acce-hq.org/>.

## Mission

Through an unshakeable focus on student learning, we provide accessible, exceptional-quality, nationally recognized programs of instruction, research and service that prepare students for engineering and other high technology careers. We foster innovative research and practical solutions that support individuals and organizations in Idaho, the Northwest region, and beyond.

## Approach to Learning and Instruction

Students are our top priority and our faculty are the most important contributors to students' success in their educational programs at Boise State University. We value experimentation and change in the learning process, and we believe that continued and intensive intellectual interactions between faculty and students are essential to the students' success. We encourage all students to develop and maintain a lifelong enthusiasm for learning, and to recognize that such lifelong learning is vital to their career success.

Faculty members are committed to providing the best education possible and are bringing innovative learning methods and technologies into the classroom. Many faculty members have active research groups, providing opportunities for undergraduate students to conduct research in their laboratories, participate in

multidisciplinary projects and gain hands-on experience and depth to their academic career.

Courses are offered in a variety of formats including conventional lecture, laboratory, distance learning, and online delivery. Classrooms are designed to encourage both individual and team efforts.

Laboratories are equipped with state-of-the-art equipment. Networked computer lab facilities include both PC and UNIX environments with the latest versions of software.

Faculty members have been instrumental in obtaining substantial gifts and grants from industry and college partners for equipment to support both introductory and advanced studies in a wide range of disciplines.

## Scholarships and Internships

Students are encouraged to apply for scholarships. More than \$200,000 is awarded each year to students in the college who demonstrate high scholastic achievement. Applications for scholarships are available from the Financial Aid Office, Administration Building, Room 113, (208) 426-1664, online at <https://www.boisestate.edu/scholarships/>. Students are also strongly encouraged to participate in internship experiences during their college career. These internships, which may provide university credit, can be in the form of part-time employment during the school year or full- or part-time employment during the summer. Information on the requirements that must be met in fulfilling internships is available from the departments within the College of Engineering.

## International Agreements

The College of Engineering participates in several exchange programs, which allow an undergraduate engineering student to attend a university in another country for a semester and apply credits from that institution toward their Boise State degree. One such cooperating institution is The Instituto Tecnológico y de Estudios Superiores de Monterrey, Guadalajara, Mexico. In addition, the College of Engineering is a member of the Global Engineering Education Exchange (Global E3), an international program designed specifically for engineering students. A list of participating universities can be found at <https://www.iie.org/en/Programs/Global-E3/Members>. Students interested in participating in such an exchange program should contact their advisor at Boise State. Information about students who have recently studied abroad may be found here: <https://www.boisestate.edu/coen/>.

## Student Organizations

Student chapters of professional societies provide opportunities to engage in hands-on, major-related activities beyond the classroom. The following student chapters of professional organizations are accessed through memberships in ASBSU student clubs:

- American Institute for Aeronautics and Astronautics (AIAA)
- Association of Computing Machinery-Women (ACM-W)
- Boise State IEEE Student Chapter
- BroncoWorks
- Civil Engineering Club—the Student Chapter of the American Society of Civil Engineers (ASCE) and the Institute of Transportation Engineers (ITE)
- Computer Science Club
- Construction Management Association (CMA) Student Chapter
- Engineering National Honor Society: Tau Beta Pi, Idaho Gamma
- Eta Kappa Nu (National Honorary Electrical Engineering Society)
- Green Energy Education Club (GEEC)
- Integrated Engineering Solutions Club (IESC)
- Materials Science and Engineering Club—Student Chapter of the Materials Research Society
- Mechanical Engineering Club—the Student Chapter of ASME, ASHRAE and SAE, the Society of Automotive Engineers
- National Society of Black Engineers (NSBE)
- Phi Sigma Rho (Women in Engineering)

- Sigma Lambda Chi Honor Society (Construction Management)
- Society of Hispanic Professional Engineers (SHPE) Student Chapter
- Society of Women Engineers (SWE) Student Chapter
- Space Broncos
- Tau Lambda Rho Honor Society (Civil Engineering)

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## College of Health Sciences

**Dean: Tim Dunnagan, EdD**

**Associate Dean: Joelle Powers, PhD**

**Assistant Dean: Lutana Haan, MHS**

Norco Nursing and Health Sciences Building, Room 408

(208) 426-4150 (phone)

(208) 426-3469 (fax)

<https://www.boisestate.edu/healthsciences/> (website)

The College of Health Sciences dedicates itself to providing quality educational programs for students wishing to enter health professions. Programs in the college provide the general student body and Boise State University service area with educational offerings that increase awareness of healthy lifestyles and emphasize the value of prevention. The college is a leader in offering online programs and courses to students throughout Idaho, the region, the nation, and the world. Program goals are achieved through collaboration with area health partners including: medical centers, public health agencies, area nonprofit agencies, medical residencies and clinics, individual health community service, and faculty scholarly activities and hallmarks of programs in the college.

### Accreditation

The college's degree programs in athletic training, diagnostic medical sonography, diagnostic radiology, environmental and occupational health, genetic counseling, nursing, respiratory care, and social work have all received accreditation from their national professional accrediting agencies. This recognition assures students that the program meets or exceeds the didactic and clinical competencies required by the specific accreditation agency.

### Student Advising and Program Admission

Students are assisted with academic advising and other support efforts through the college's Student Services and Academic Advising (SSAA) unit. The SSAA advisors assist all students not yet admitted into clinical programs (pre-nursing, pre-radiologic sciences, and pre-respiratory care), kinesiology, and health science studies majors as well as pre-professional students who aim to apply to professional health-related programs in the future. SSAA provides specialized advising for students and is the initial contact point to assist students with academic planning and program admission criteria. The Boise State clinical programs have limitations on the numbers of new students they take into their programs each year and are very competitive, so prospective students should contact an advisor for specific prerequisite and application information and perform well in prerequisite courses to enhance their chance for acceptance.

### Cooperating Agencies

Boise State University offers students a unique opportunity to continue their education off-campus and learn a health profession in state-of-the-art regional medical centers, state agencies, health and fitness facilities, and social/community service organizations. As a foundation, this learning environment is made possible by a supportive relationship among public, private, and nonprofit health agencies, thereby providing students with dynamic education, research, and community-service opportunities. Through these cooperative relationships, students can interact with professionals and the public to address a host of personal and environmental health care issues.

Examples of these community partners in health professional and community education include:

- Boise Independent School District #1, Boise

- Blue Cross of Idaho
- Central District Health Department, Boise
- DaVita Dialysis and HealthCare Partners
- Four Rivers Mental Health
- Genesis World Mission Garden City Community Clinic
- Idaho Department of Corrections
- Idaho Department of Health and Welfare
- Idaho State Veterans Home
- Intermountain Orthopedics
- Life Care Center of Valley View
- Micron Family Center
- Nampa Family Justice Center
- Northwest Hospital and Medical Center
- Outlying area hospitals
- Primary Health
- Roman Catholic Diocese St. Mary's Catholic Church
- Saint Alphonsus Health System
- St. Luke's Health System
- Treasure Valley Hospice
- Utah State University
- Veteran Affairs Medical Center
- West Valley Medical Center
- Western Idaho Community Action Partnership

### Centers and Institutes

#### Center for Excellence for Environmental Health and Safety (CEEHS)

The CEEHS serves as a repository of information on environmental health and safety issues and houses the federally funded Occupational Safety and Health Administration (OSHA) consultation program for the state of Idaho.

#### Center for Health Policy (CHP)

The College of Health Sciences hosts the Center for Health Policy (CHP) that collaborates with a variety of agencies in providing independent analysis of issues relating to health care in Idaho and other states. The CHP also provides an opportunity for students to participate in research and education activities related to health policy development and health-care reform.

#### Center for Orthopaedic and Biomechanics Research (COBR)

The College of Health Sciences collaborates with the College of Engineering to sponsor COBR. This interprofessional center provides leadership in orthopaedic and biomechanics research, service and innovation through basic science, engineering, clinical research and education. Faculty and students work with collaborators from local, regional and nationally known academic, medical and business institutions. COBR's laboratory inventory includes a complete, state-of-the-art motion capture system, in-ground force plates and wireless electromyography.

#### Center for the Study of Aging (CSA)

The College of Health Sciences and the College of Social Sciences and Public Affairs are cosponsors of the Center for the Study of Aging (CSA). The CSA focuses on: 1) facilitating faculty and student interdisciplinary research in areas related to aging, 2) providing educational materials and programs on topics of interest to scholars, agencies serving the aging, and the general public, and 3) networking with state community agencies to promote health service delivery to rural and urban locales in Idaho.

#### The Institute for the Study of Addiction

The College of Health Sciences and the College of Education are the cosponsors of the Institute for the Study of Addiction. This multidisciplinary center utilizes faculty from a variety of disciplines to conduct research and service activities that investigate the complex nature of addictions. The center also incorporates the Idaho Regional Alcohol and Drug Awareness Resource Center (RADAR) under its umbrella so that local, state, and regional agencies



can conveniently obtain the latest drug/alcohol/tobacco information. The center is unique to institutions of higher education in Idaho.

### Multiculture/Multi-Ethnic Diversity

The College of Health Sciences is committed to a diverse student and employee population and to providing opportunities for students, faculty, and staff to expand their knowledge and awareness of cultural and ethnic diversity. One such opportunity involves students and employees in a cooperative program with the Boise State University Studies Abroad Consortium whereby students spend four weeks in Costa Rica during the summer, studying Spanish and health care in the Mexican culture. Another diversity opportunity involves arranged internship opportunities for students to enhance their learning experience. In addition, the college is a campus leader in international programs featuring affiliations with universities and health care facilities in Belize, China, Ecuador, Ireland, Japan, and the Netherlands. The curricular offerings in the college are updated regularly to reflect an international focus.

### Program Advisory Boards

Programs within the College of Health Sciences use various advisory boards to ensure that Boise State provides high-quality curriculum for our students and appropriate professional education for health agencies in the Boise State service area. At the college-level, there are two advisory boards; one that assists with strategic planning and suggests potential new program offerings or updates, and another where members assist with college development efforts in an advisory capacity. Professionals from the health care and public health communities as well as citizens, alumni, and students comprise all boards.

### Student Organizations

- Athletic Training Student Association
- Health and Human Performance Club
- Human Performance Club
- Lambda Nu National Honor Society (Radiologic Sciences)
- Organization of Student Social Workers
- Phi Alpha Honor Society (Social Work)
- Pre-Dental Club
- Pre-Med Club
- Pre-Vet Club
- Respiratory Therapy Students Association
- Public Health Club
- Student Association for Radiologic Technologists
- Student Nurses Association

## College of Innovation and Design

**Dean: Gordon Jones**

**Associate Dean: Shawn Benner**

Albertsons Library, Room 201G

(208) 426-2975 (phone)

cid@boisestate.edu (email)

<https://www.boisestate.edu/cid/> (website)

### Mission

The College of Innovation and Design (COID) is helping to create the future Boise State. The college is an incubation laboratory for the university, a place where experimental ideas and opportunities become distinguishing learning experiences for our students. We are highly engaged with the larger community, meeting emerging trends and workforce needs, and delivering value to our community and competitive advantage to our students.

### Programs

The College of Innovation and Design offers a variety of programs:

- **Boise State X (BSX)** A collaboration with Extended Studies and the College of Arts and Sciences to increase access and lower the cost of earning a college degree for working, rural, and returning students.
- **Bridge to Career** A program that equips learners of all majors with industry-relevant and practical job and life skills.
- **eSports Program:** This co-curricular program enables campus-wide student involvement in eSports and Boise State's nationally ranked varsity eSports team.
- **Games, Interactive Media, and Mobile (GIMM)** Graduates from this interdisciplinary baccalaureate degree use their skills in immersive 'gaming' technologies to solve complex challenges in industry, education and the community
- **Harvard Business School Online at Boise State (HBS)** This program offers an immersive 9-credit program where students gain a credential from Harvard University in foundational business skills.
- **Human Environment Systems Group** This interdisciplinary, research-intensive, community of faculty and students that uses community-based research to advance solutions to pressing environmental challenges.
- **Idaho Entrepreneur Challenge** This statewide program provides students with the opportunity to develop their promising ventures and small businesses in a competitive environment.
- **IDEA Certificate** This unique interdisciplinary program provides students with the opportunity to build their creative confidence and technological competence through a highly interactive program of problem-solving, emerging technology, and collaborative communication.
- **Leadership and Human Relations Certificate (LEAD)** This certificate program helps students develop leadership skills and awareness in a society hungry for leaders who make a difference.
- **User Experience Research Certificate** This interdisciplinary certificate program trains students to conduct research to improve how people interact with services, products, policies and organizations. This program prepares students for careers in user research, user experience (UX), service design, product design, branding, marketing, and organizational innovation.
- **Venture College** The venture college is a welcoming learning environment where students can develop their entrepreneurial skills and resources to take their ideas and projects from concept to a launched product, business, service, or enterprise.
- **Vertically Integrated Projects** This program enables students to engage in for-credit interdisciplinary research experiences across campus that build technical and workplace skills in a highly supportive and inclusive environment.

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## School of Public Service

**Interim Dean: Andrew Giacomazzi, PhD**

**Interim Associate Dean: Jennifer Schneider, PhD**

Education Building, 7<sup>th</sup> Floor

(208) 426-1368 (phone)

(208) 426-4318 (fax)

[schoolofpublicservice@boisestate.edu](mailto:schoolofpublicservice@boisestate.edu) (email)

<https://www.boisestate.edu/sps/> (website)

### Centers and Institutes

- Andrus Center for Public Policy
- Center for Dispute Resolution
- Energy Policy Institute
- Frank Church Institute
- Idaho Policy Institute

### Additional Community Engagement

- Big Tent Radio
- The Blue Review
- Mandela Washington Fellows
- Marilyn Shuler Initiative
- NEW Leadership Idaho
- Statewide and Regional Surveys

### Student Organizations

- Alpha Phi Sigma Criminal Justice Honor Society
- Lambda Alpha Epsilon Criminal Justice Student Organization
- MPAA Master of Public Administration Association
- Pi Alpha Alpha Public Affairs and Administration Honor Society
- Pi Sigma Alpha Political Science Honor Society
- Political Science Association
- Pre-law Society

### School Statement

Boise State University's School of Public Service is dedicated to excellence in innovative teaching, cutting edge scholarship and meaningful community outreach, serving the State of Idaho, region, nation and global communities.

The school comprises various rich and diverse academic programs, including Conflict Management, Criminal Justice, Environmental Studies, Global Studies, Military Science, Political Science, Public Policy and Administration, and Urban Studies and Community Development, as well as talented affiliated faculty from departments and programs across the university. The mission of the school is supported by a variety of centers and institutes that facilitate research and public engagement, including the Andrus Center, the Energy Policy Institute, the Frank Church Institute, the Idaho Policy Institute and the Marilyn Shuler Initiative.

The school prepares students, public servants, and leaders to think both locally and globally in an interdependent world, producing relevant scholarship that enriches our society. As such, it serves as a centralized resource for policy makers—to assist them in making informed decisions—and for faculty and students to connect and engage actively with the community and participate in policy decisions.

Experiential learning and interdisciplinary opportunities, enhances the education of students, allowing them to apply their knowledge and skills to the critical challenges facing the public, private, and nonprofit sectors.

Empirical and applied research and the production of new knowledge are central to the mission. Faculty, staff and students make important contributions that balance theory and practice across diverse areas of contemporary scholarship.

The school uses analytical methods to create and disseminate knowledge highly valued by a variety of consumers of research, including policy makers and leaders in the public, nonprofit and business worlds.

Finally, the School of Public Service's transdisciplinary approach to knowledge production seeks to provide professional expertise and promote public discourse and engagement.

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## Graduate College

**Dean: Tammi Vacha-Haase, PhD**

**Associate Dean: Scott Lowe, PhD**

Riverfront Hall, Room 307

(208) 426-4723 (phone)

(208) 426-2789 (fax)

<https://www.boisestate.edu/graduatecollege/> (website)

### General Information

The Graduate College at Boise State University provides institutional oversight and advocacy for 135 unique graduate programs and certificates, established across seven academic colleges and schools, with over 3,000 registered graduate students each semester. The Graduate College annually awards over 900 graduate degrees and certificates in programs that span the breadth of graduate education, from certificate and master's programs that prepare students for leadership roles in a wide variety of professional settings, to doctoral programs that develop the next generation of scholars. The Graduate College works closely with the Graduate Council, the deans and graduate faculties of the seven academic colleges and schools, and external accrediting organizations to ensure excellence in all aspects of the graduate experience. The scope of activities embraced by the Graduate College is very broad, including graduate admissions, strategic development of graduate programming, problem resolution for individual faculty members and graduate students, and participation at national conferences on graduate education. The Graduate College also helps the university maintain a culture of inclusiveness, collegiality and ethical behavior through its dedication to diversity, fairness and integrity.

### Graduate Credit Options for Seniors

Senior undergraduate students may seek permission to enroll in a 500-level graduate course by completing a *Permit for Seniors to Take Graduate Courses*, at <https://www.boisestate.edu/registrar/student-forms/>, in the Graduate College (Riverfront Hall, Room 307), or in the Registrar's Office (Administration Building, Room 110). The permit must be approved by the course instructor, the chair or graduate program coordinator in the department offering the course, and the graduate dean. Application of the graduate credit so earned is governed by regulations specified in the graduate catalog (see Graduate Credit Option for Undergraduate Students in the Graduate Academic Regulations section of the *Boise State University Graduate Catalog* and the Credit Limitations section of Chapter 10—*Obtaining a Degree at Boise State University* in this catalog).

### Boise State University Graduate Catalog

The *Boise State University Graduate Catalog* is available online at <https://www.boisestate.edu/graduatecatalog/>.

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## Honors College

**Dean: Andrew Finstuen, PhD**

Honors College

(208) 426-1122 (phone)

(208) 426-1247 (fax)

<https://www.boisestate.edu/honors/> (website)

### College Statement

The Honors College at Boise State University supports a community of outstanding students and challenges them to become more effective thinkers, writers, and leaders as they prepare for lives of meaningful work, public engagement, and lifelong learning. Through the Honors College, students gain the benefits of a private college education while utilizing the opportunities and advantages available at a large metropolitan university. The Honors curriculum is designed to complement all majors. Many Honors courses overlap general university requirements while offering students a smaller, rigorous, discussion-based classroom setting designed to enhance their educational experience.

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## Division of Extended Studies

**Dean: Mark Wheeler**

**Associate Dean: Christine Bauer, PhD**

**Associate Dean: Peter Risse**

220 E. Parkcenter Boulevard

(208) 426-1709 (phone)

(208) 426-3467 (fax)

[extendedstudies@boisestate.edu](mailto:extendedstudies@boisestate.edu) (email)

<https://www.boisestate.edu/extendedstudies/> (website)

### Mission

Extended Studies extends higher education beyond traditional boundaries to provide college access and lifelong learning opportunities to people of varying ages and circumstances.

A partner to the academic colleges of the university, Extended Studies champions and serves as an expert resource for the alternative programs, delivery methods and services that address the diverse academic, professional development, and personal enrichment needs of the metropolitan area, Idaho and beyond.

### Programs Offered for Academic Credit

#### Boise State eCampus

Boise State has 48 academic degree and certificate programs that are offered online. In addition, over 700 unique courses are available online for students who are unable to attend in-person classes or need the flexibility of online courses.

The format of online classes and programs are comparable to traditional classes regarding workload. Instructors lead the course and provide students with course content, make assignments, set deadlines, and interact on a regular basis with students.

Strategies for success in an online class include dedicating the necessary time each week to reading directions carefully, completing class work, and participating in discussions on a regular basis during each week.

For more information about the programs and classes offered online, visit <https://www.boisestate.edu/online/>.

#### Summer Sessions

Summer classes are an integral part of Boise State's course offerings. Sessions are facilitated through the Division of Extended Studies.

Summer sessions offer over 700 classes that are available in various formats and session lengths. A wide variety of graduate and undergraduate courses and workshops are offered. The *Boise State University Summer Schedule of Classes* is available to students each spring at <https://my.boisestate.edu>. For more information about summer sessions, visit <https://www.boisestate.edu/summer/> or call (208) 426-1709.

#### Boise State Flex

Boise State is committed to offering a combination of flexible in-person and online degree options and support services. Boise State Flex includes distinct degree programs—each dedicated to ensuring students have the opportunity to complete a bachelor's degree at their pace and on their schedule.

For more information about Boise State Flex, visit <https://www.boisestate.edu/flex/> or call (208) 426-3496.

#### Boise State Outreach Centers

With Centers located across Idaho, Boise State offers students more choice in how and where they study. Each Outreach Center offers flexible scheduling of classes and programs at a convenient location or online to help students get started, finish a degree, or connect with resources and support services. Center locations include:

##### Military Programs

Boise State Center at Gowen Field

3655 W. Harvard Street, Building #521, Gowen Field, Boise, ID 83705  
(208) 426-5957

Boise State Center at Mountain Home Air Force Base

Education Center

655 Falcon St., Mountain Home AFB, ID 83648  
(208) 426-4230

##### Western Treasure Valley

Boise State Center at College of Western Idaho (CWI)

Nampa Campus, Aspen Classroom Building, Room 128  
6002 Birch Lane, Nampa, ID 83687  
(208) 562-3423

##### Magic Valley

Boise State Center at the College of Southern Idaho

College of Southern Idaho Campus, Hepworth Building, Room 144D  
315 Falls Ave, Twin Falls, ID 83301  
(208) 933-2305

##### North Idaho

Boise State Outreach Center in North Idaho

Lewis-Clark State College, Coeur d'Alene

1031 N. Academic Way, Suite 144, Coeur d'Alene, ID 83814  
(208) 292-2679

For more information about outreach locations and the resources and programs offered at each, visit <https://www.boisestate.edu/flex/flexible-locations/>.

#### Concurrent Enrollment for High School Students

Concurrent enrollment offers opportunities for high school students to take rigorous college-level courses at their high school and earn both high school and college credit simultaneously. High school instructors are approved by academic departments, and use Boise State curriculum, texts and grading scales. The classes offered for concurrent enrollment are generally part of Boise State's general education core and can apply to most degrees a student will pursue upon entering college. Classes are offered in person and online at a reduced per-credit fee and are transferable to most other accredited colleges and universities across the United States.

Idaho State Department of Education funds are available for students enrolled in public high schools and charter schools to pay for concurrent enrollment fees through Fast Forward Advanced Opportunities.

## AN INTRODUCTION TO BOISE STATE

As part of the program students have access to university resources such as a Boise State student ID card, the Writing Center, the Albertsons Library, an email account, and free or reduced admission to campus lectures and events. The Concurrent Enrollment Program is accredited by the National Alliance of Concurrent Enrollment Partnerships. For a list of partner high schools and courses offered please visit: <https://www.boisestate.edu/concurrentenrollment/> or call (208) 426-3750 and (208) 426-2281.

### Noncredit Programs

#### Osher Lifelong Learning Institute

The Osher Lifelong Learning Institute (OLLI) provides a rich array of noncredit lectures and short courses from across the curriculum designed for seasoned adult learners age 50 and over. Membership is open to adults who enjoy the challenge of learning without the stress of tests and grades, and members share the common bond of intellectual curiosity. No prerequisites are required for this program. For a brochure and additional information, please visit <https://www.boisestate.edu/osher/> or call (208) 426-6554.

#### Boise State Center for Professional Development

The Boise State Center for Professional Development provides continuing education opportunities for professionals from various fields, including business, engineering, public administration and health care. On-campus and online courses are designed for busy professionals and progressive organizations eager to improve knowledge and practical skills while addressing dynamic work challenges. The Center for Professional Development offers non-credit courses in leadership, project management, business communication, human resources, and select specialties.

In addition, the Center for Professional Development brings Boise State University expertise and other subject matter experts directly to businesses and organizations. The center partners with organizations to develop individual training solutions that provide innovative, learning programs designed to improve employee performance, communication and business results. Schedule and location are flexible and adapted to business and operational requirements. Popular topics include:

- Leadership
- Project Management
- Business Communication
- Team Development

Professional development offered by the Center for Professional Development complies with university standards for awarding Continuing Education Units. Continuing Education Unit (CEU) is a nationally standardized unit documenting participation in noncredit programs, courses or workshops. CEUs cannot be converted to academic credit.

For a complete list of Center for Professional Development courses, please visit our website at <https://www.boisestate.edu/cpd/>. For more information, call (208) 426-1709.

#### K-12 Teacher Professional Development

Working closely with local school districts, the Idaho State Department of Education, campus academic departments and the Boise State College of Education, the Center for Professional Development's K-12 Teacher Professional Development program enables teachers and professional employees of school districts to earn professional development credit required for recertification and salary increases. Graduate credits earned through the Professional Development program are offered at a reduced rate. These credits cannot be used to satisfy degree requirements.

Through partnership with such vendors as Virtual Education Software Inc. and Idaho Digital Learning, Boise State University is able to provide professional education credit for a multitude of courses that are delivered 100% online.

Please see our educator's web page for more information and a list of current offerings at <https://www.boisestate.edu/k12pd/>.



#### Questions About Boise State?

- 1-800-632-6586 (toll-free in Idaho)
- 1-800-824-7017 (toll-free nationwide)

# Chapter 2—General Policies

This chapter defines the general policies governing your rights as a student, academic integrity, student records, transcripts, enrollment status, name and address changes, student classification, declaring a major, and appeals.

Additional information on these policies is available in the *Boise State University Student Handbook* (<https://www.boisestate.edu/deanofstudents/>) and the *Boise State University Policy Manual* (<https://www.boisestate.edu/policy/>).

## Your Rights and Responsibilities

Boise State University challenges you to reach your highest level of performance, encourages you to excel in academics and sports, and invites you to participate in many cultural and social activities available at the university. At the same time, Boise State expects you to conduct yourself in a manner compatible with the university's function as an institution of higher learning. Therefore, we have published this catalog and the *Boise State University Student Handbook* to acquaint you with your rights and responsibilities as a student.

## Confidentiality and Privacy

For more information see Boise State Policy #2250. The Family Educational Rights and Privacy Act (FERPA) affords you certain rights with respect to your education records. These rights include:

1. The right to inspect and review your education records within 45 days from the day the university receives a request for access.

You should submit to the registrar, dean, head of the academic department, or other appropriate official, a written request that identifies the record(s) you wish to inspect. The university official will make arrangements for access and notify you of the time and place where the records may be inspected. If the records are not maintained by the university official to whom the request was submitted, the official shall advise you of the correct official to whom the request should be addressed.

2. The right to request the amendment of your education records that you believe are inaccurate, misleading, or otherwise in violation of your privacy rights under FERPA.

If you wish to ask the university to amend a record, you should write the university official responsible for the record, clearly identify the part of the record you want changed, and specify why it should be changed.

If Boise State decides not to amend the record as requested, the university will notify you in writing of the decision and your right to a hearing regarding the request for amendment. Additional information regarding the hearing procedures will be provided to you when you are notified of the right to a hearing.

3. The right to provide written consent before the university discloses personally identifiable information from your education records, except to the extent that FERPA authorizes disclosure without consent.

The university can disclose education records without your prior written consent under the FERPA exception for disclosure to school officials with legitimate educational interests. A school official has a legitimate educational interest if the official needs to review an education record to fulfill his or her professional responsibilities for the university. A school official is a person employed by the university in an administrative, supervisory, academic or research, or support staff position (including law enforcement unit personnel and health staff); a person or company with whom the university has contracted as its agent to provide a service instead of using university employees or officials (such as an attorney, auditor, or collection agent); a person serving on the Board of Trustees; or a student serving on an official committee, such as a disciplinary or grievance committee, or assisting another school official in performing his or her tasks.

4. The right to file a complaint with the U.S. Department of Education concerning alleged failures by the university to comply with the requirements of FERPA. The name and address of the office that administers FERPA is: Family Policy Compliance Office, U.S.

Department of Education, 400 Maryland Avenue, SW, Washington, DC 20202-8520.

The information listed below is considered directory information:

- your name
- your local address
- your email address
- your local telephone number
- your major field of study
- the dates you attended Boise State
- your student classification (freshman, sophomore, junior, senior, or graduate)
- your enrollment status (e.g., full-time or part-time)
- the type of degree you have earned from Boise State and the date it was awarded
- the dean's list and other honors

As of January 3, 2012, the U.S. Department of Education's FERPA regulations expanded the circumstances when your education records and personally identifiable information (PII) contained in such records—including your Social Security Number, grades, or other private information—may be accessed without your consent. First, the U.S. Comptroller General, the U.S. Attorney General, the U.S. Secretary of Education, or state and local education authorities ("Federal and State Authorities") may allow access to your records and PII without your consent to any third party designated by a Federal or State Authority to evaluate a federal- or state-supported education program. The evaluation may relate to any program that is "principally engaged in the provision of education," such as early childhood education and job training, as well as any program that is administered by an education agency or institution. Second, Federal and State Authorities may allow access to your education records and PII without your consent to researchers performing certain types of studies, in certain cases even when we object to or do not request such research. Federal and State Authorities must obtain certain use-restriction and data security promises from the entities that they authorize to receive your PII, but the authorities need not maintain direct control over such entities. In addition, in connection with Statewide Longitudinal Data Systems, State Authorities may collect, compile, permanently retain, and share without your consent PII from your education records, and they may track your participation in education and other programs by linking such PII to other personal information about you that they obtain from other Federal or State data sources, including workforce development, unemployment insurance, child welfare, juvenile justice, military service, and migrant student records systems. If you wish to limit access to this information, go to myBoiseState Help at <https://www.boisestate.edu/oit-myboisestate/> and scroll to Student Center—Personal Information and click on Update FERPA Restrictions link for instructions.

In discharging their official duties, Boise State employees may read, review, photocopy, and distribute to appropriate persons within the university any information contained in your student record. However, before distributing confidential information outside the university—even to members of your family—Boise State faculty and staff must first secure your written permission to do so.

You must complete a *Release of Information* form to allow individuals other than yourself to access your educational or financial records. The form can be located at <https://www.boisestate.edu/registrar/student-forms/>.

## Academic Integrity

The university's goal is to foster an intellectual atmosphere that produces educated, literate people. Because cheating and plagiarism are at odds with this goal, these actions shall not be tolerated in any form. You are expected to adhere to the rules and regulations as set forth in the *Boise State University Student Code of Conduct*. Therefore, all work you submit must represent your own ideas and effort; when the work does not, you have engaged in academic dishonesty.

Plagiarism occurs when a person tries to represent another person's work as his or her own or borrows directly from another person's work without proper documentation. For example, academic dishonesty occurs whenever you:

- buy a paper or other project, then seek to receive credit for the paper or project
- copy from another student's exam, either before, during, or after the exam
- use "crib notes" while taking an exam or use information stored in a computer or calculator (if prohibited from doing so)
- allow another person to take an exam in your place or take an exam for another person
- collaborate on take-home exams when such collaboration is forbidden
- copy the work of another person and attempt to receive credit for that work
- fail to properly document source material in a paper or project
- receive editorial assistance that falls outside the scope of acceptable assistance

Note: The list above is intended only to provide general guidelines for recognizing and avoiding common types of academic dishonesty. It is in no way an exhaustive or comprehensive list of all the types of academic dishonesty.

Except in cases of major offenses, responding to academic dishonesty is the responsibility of the instructor of the course where the dishonesty occurs. If you are responsible for academic dishonesty, you may be dismissed from the class and may receive a failing grade. Other penalties may include suspension or expulsion from school.

For more information about academic honesty, see the following publications:

- *Boise State University Policy Manual*
- *Boise State University Student Handbook*
- *Boise State University Student Code of Conduct*

## General Notice of Nondiscrimination

It is the policy of Boise State University to comply with all federal, state and local authorities requiring nondiscrimination, including but not limited to Title VI of the Civil Rights Act of 1964, the Civil Rights Restoration Act of 1987, Title IX of the Education Amendments of 1972, Section 504 of the Rehabilitation Act of 1973, the Americans with Disabilities Act of 1990 (ADA), the Age Discrimination Act of 1975, and Executive Orders 12898 (Environmental Justice) and 13166 (Limited English Proficiency). Boise State is an equal opportunity employer.

The university does not exclude from participation in, deny the benefits of, or subject any individual to discrimination on the basis of race, color, national origin, sex, sexual orientation, gender identity, disability, income, protected veteran status, limited English proficiency, or any other status protected under applicable federal, state or local law. For Boise State's nondiscrimination policies and grievance procedures, please see Boise State Policies 1060, 1065, and 1070 at <https://www.boisestate.edu/policy/>.

For more information or if you believe you have been subject to discrimination on the basis of sex, sexual orientation, gender identity, disability, or on any other basis, please contact the Office of Institutional Compliance and Ethics: Riverfront Hall, Suite 306, 1910 University Drive, MS 1215, Boise, ID 83725, telephone: (208) 426-1258, email: [reportdiscrimination@boisestate.edu](mailto:reportdiscrimination@boisestate.edu).

You may also file a complaint with: Office for Civil Rights, Seattle Office, U.S. Department of Education, 915 Second Avenue, Room 3310, Seattle, WA 98174-1099, telephone: (206) 607-1600, fax: (206) 607-1601, email: [OCR.Seattle@ed.gov](mailto:OCR.Seattle@ed.gov).

## Providing Equal Access to People with Disabilities

Boise State is committed to creating a diverse and inclusive campus environment by abiding by the letter and spirit of the Americans with Disabilities Act and Section 504 of the Rehabilitation Act. Accordingly, the university does not discriminate against persons with disabilities and strives to provide an exceptional academic experience for students with disabilities by providing reasonable and appropriate accommodations for equitable access.

Boise State's Educational Access Center (EAC) coordinates services to meet the educational needs of students with documented disabilities. The EAC works with students and faculty to arrange reasonable accommodations and promote an environment that is free of both physical and attitudinal barriers. Students with disabilities needing accommodations to participate fully in academic programming should contact the EAC. All accommodations must be approved through the EAC prior to being implemented. To learn more about the accommodation process, visit the EAC's website at <https://www.boisestate.edu/eac/>.

Employees or applicants for employment who require disability-related services or accommodations should contact Human Resource Services located at 2225 W. University Drive, Capitol Village #3, MS 1265, Boise, ID 83725 or by phone at (208) 426-1616. More information on requesting an accommodation is available at <https://www.boisestate.edu/hrs-employees/>.

Boise State's Office of Institutional Compliance and Ethics monitors compliance with Section 504 and the ADA and coordinates the university's response to complaints of discrimination on the basis of disability. Individuals with questions or concerns related to the university's obligations in regard to these laws and those who wish to file a complaint may contact the Office of Institutional Compliance and Ethics: Riverfront Hall, Suite 306, 1910 University Drive, MS 1215, Boise, ID 83725, telephone: (208) 426-1258, email: [reportdiscrimination@boisestate.edu](mailto:reportdiscrimination@boisestate.edu).

In addition to the Office of Institutional Compliance and Ethics, inquiries may be directed to the federal department responsible for enforcing Section 504 in the educational context: Office for Civil Rights, Seattle Office, U.S. Department of Education, 915 Second Avenue, Room 3310, Seattle, WA 98174-1099, telephone: (206) 607-1600, fax: (206) 607-1601, email: [OCR.Seattle@ed.gov](mailto:OCR.Seattle@ed.gov).

## Student Records

Boise State University routinely collects, stores, and maintains many kinds of information about prospective, current, and former students. For instance, Admissions maintains a file for each student who has applied for admission to the university for a period of two to five years (see Chapter 3—*Admissions* for details). Other files at the Registrar's Office contain your permanent transcript. Faculty and departments also may maintain files containing advising records, grades sheets, and correspondence.

In general, you have the right to review the documents that constitute your official record. If you wish to do so, please contact the Registrar's Office, Administration Building, Room 110, (208) 426-4249.

## Transcript Records

If you have myBoiseState (<https://my.boisestate.edu/>) access, you should order and pay for your official transcripts online through your myBoiseState account. If you do not have myBoiseState access, you can go to the National Student Clearinghouse (<https://tsorder.studentclearinghouse.org/school/select>) to place an order online. You can access unofficial transcripts in your Student Center on myBoiseState. The Registrar's Office makes every effort to ensure your transcript records are up-to-date and accurate. If you believe there is an error or an omission on your transcript, contact the Registrar's Office, Administration Building, Room 110, (208) 426-4249.

## Address Changes

Whenever Boise State University policies or procedures call for a university office to send you written notification, that obligation is fulfilled when that office mails the notification to your last mailing address on record. If you are currently enrolled or have access to a myBoiseState account, you must update address information on myBoiseState (<https://my.boisestate.edu/>) on your Student Center (under the update personal information tile, select Addresses). If you are a former student, and do not have access to a myBoiseState account, submit an *Information Update* form (located at <https://www.boisestate.edu/registrar/student-forms/>) form to the Registrar's Office, Administration Building, Room 110.

## Verification of Your Enrollment Status

Your enrollment status is public information, unless you have notified the university that you want it to be treated as confidential (see Confidentiality and Privacy in this chapter). In responding to inquiries from outside the university, Boise State calculates your enrollment status per Table 2.1. Requests for verification of enrollment status often come from such businesses as employment agencies, insurance companies, and lending agencies.

| Number of Credits (Currently enrolled) | Enrollment Status   |
|--|---------------------|
| 12 or more                             | Full-Time           |
| 9 to 11                                | Three-Quarter-Time  |
| 6 to 8                                 | Half-Time           |
| 5 or fewer                             | Less Than Half-Time |

Note: If you are receiving benefits under the G. I. Bill, you should contact the Veteran Services Office, located in the Lincoln Garage, on the corner of Lincoln Ave. and University Dr., (208) 426-3744, to determine your enrollment status. Exceptions for student body officers and student editors are outlined in Idaho State Board of Education Policy III. P.7. a. i-ii.

## Student Classification

The university classifies each student per the definitions provided in Table 2.2.

| Classification | Definition   |
|----------------|--|
| Freshman       | Has earned 0 to 25 credits.  |
| Sophomore      | Has earned 26 to 57 credits. Sophomore is the maximum classification for students in associates or certificate programs. |
| Junior         | Has earned 58 to 89 credits.   |
| Senior         | Has earned 90 or more credits or is pursuing a second baccalaureate degree.  |
| Graduate       | Has earned a baccalaureate degree, has been admitted to the Graduate College, and is pursuing a graduate degree.         |

## Name Changes

You should promptly report a name change. You may do so by going to <https://www.boisestate.edu/registrar/student-forms/>, completing an *Information Update* form and returning the form to the Registrar's Office, Administration Building, Room 110. You must provide evidence showing that your name has officially changed, such as a valid drivers license or social security card.

Note: If you are currently or were previously employed (even as a student), you must report your name change to the Department of Human Resource Services, 2525 W. University Drive, Capitol Village #3, (208) 426-1616 (documentation requirements may differ).

## Preferred Name

You may choose to use a preferred name while in attendance. Update your preferred name (first and middle) by accessing your Student Center, on myBoiseState (<https://my.boisestate.edu/>) on the Update Personal Info tile. Multiple systems within the university utilize preferred names (e.g., myBoiseState, Blackboard, Student Housing, class rosters. ). Your username and email account may also be generated to match your preferred name. All official documents, academic records (i.e., transcripts) and university reports use only your primary or legal name.

## Declaring a Major

If you are a student seeking a baccalaureate degree, you must declare a major field of study by the time you are classified as a junior. You will be classified a junior when 58 credits have been earned (see Table 2.2).

For your convenience, if you are a student who has not yet selected a major field of study (undeclared), you can declare a major by logging on to your myBoiseState Student Center (<https://my.boisestate.edu/>) and select Change My Major in the My Academics tab. For more information, contact the Registrar's Office, Administration Building, Room 110, (208) 426-4249.

Additional information about majors can be found in Chapter 10—*Obtaining a Degree at Boise State University*.

## Right of Appeal

You have the right to appeal any academic policy or requirement if either of the following conditions is present:

- Extenuating circumstances make it impossible for you to comply with the policy or requirement.
- An undue hardship would result from a strict application or interpretation of the policy or requirement.

Please note, however, that extenuating circumstances must be beyond your control and that undue hardship must be a condition far more serious than simple inconvenience. Documentation will be required and the timeliness of the appeal will be taken into consideration.

If you appeal an academic policy or requirement, the dean of the college responsible for your major or the University Academic Appeals Committee will most likely review that appeal. For more information about appeals and grievances, see the *Boise State University Policy Manual*, <https://www.boisestate.edu/policy/> and the *Boise State University Student Handbook*, <https://www.boisestate.edu/deanofstudents/student-support/student-handbook-2/>.

## Last Week of Classes and Final Exams

No undergraduate classes provided by Boise State University will give any test or examination during the last seven calendar days preceding the first day of the officially scheduled final examination period of the fall or spring semester (traditionally referred to as "Dead Week"), except in those particular courses that are offered in an accelerated time frame less than 15 weeks and/or wherein it is deemed necessary by departmental policy (e.g., lab, artistic performance, project presentation, team analysis, etc. ). Online courses are expected to adhere to the policy whenever possible, but they are allowed to make exceptions when the course schedule differs from the regular semester schedule.

- In-class final or take home final exams will be given and/or due during the officially scheduled final examination periods.
- No take home test or exam may be made due during the last week of classes.
- Test or exam dates during the last week of classes are not subject to personal preferences (e.g., faculty preference, class vote, or other means of general consensus).
- Exceptions may be allowed for extenuating circumstances, on an individual student basis, to be arranged at a time agreeable to the faculty member.
- Faculty will provide a clear statement in the course syllabus as to what is expected of students during the last week of class.

Each semester, a schedule for final examinations is published on the Registrar's Office website at <https://www.boisestate.edu/registrar/boise-state-academic-calendars/final-exam-schedules/>. This schedule defines the dates and times when all final examinations must be scheduled.



### Questions About These Policies?

If you have questions about these policies, contact the Registrar's Office, Administration Building, Room 110, (208) 426-4249.

# Chapter 3—Admissions

Admissions responds to prospective and newly admitted undergraduate students. The primary functions are to:

- provide information about Boise State University
- host campus tours and other on- and off-campus recruitment events
- conduct information sessions
- process applications for admission
- evaluate application materials for admissibility to Boise State.

The following sections define the dates for admission applications, the process that Admissions determines your admission status, and the standards you must meet to be admitted to Boise State. Included are instructions to apply for admission (Table 3.1). You can also find this information at <https://www.boisestate.edu/admissions>

Note: If you are planning to pursue graduate studies and are a U.S. citizen or permanent resident, you must apply for admission through Graduate Admissions. For more information, see the *Boise State University Graduate Catalog* or contact Graduate Admission and Degree Services, Riverfront Hall, Room 307, (208) 426-3903, <https://www.boisestate.edu/graduatecollege>.

Table 3.1—How to Apply for Admission to Boise State University

To apply for undergraduate admission, submit all materials required based on applicant status (see Important Deadlines, page 23). When submitting an application for admission, you must disclose and submit accurate information. Failure to do so may result in denial of admission or dismissal from Boise State University.

## New Freshmen in Undergraduate Programs

### Idaho High School Seniors

Idaho high school seniors may apply to Boise State via the Apply Idaho application, or via Boise State's institutional application. Both of these applications are free of charge. Refer to <https://nextsteps.idaho.gov> for more information about Apply Idaho and <https://www.boisestate.edu/admissions/> for more information about the Boise State application.

Other first-year applicants submitting Boise State's application for admission

The following items are required in order to receive an admission decision:

- *Online Application for Undergraduate Admission*
- Official high school transcript\* showing all courses completed and date of graduation (or GED test scores). Note: If you are currently enrolled in high school, you may receive a preliminary admission decision by submitting in-progress high school transcripts after your junior year.
- If you will be younger than the age of 21 prior to the opening day of the semester during which you plan to enroll, official ACT or SAT results are required. They can be posted on your high school transcript or received directly from the testing agency. \*\*
- Fully online students and nonresidents of Idaho: \$50 non-refundable application fee.

## Transfer Applicants in Undergraduate Programs

- *Online Application for Undergraduate Admission*
- Official transcript\* from each college or university attended. Transcripts must be submitted from each regionally accredited college or university attended. Note: If you are attending another college, you may receive a preliminary admission decision by sending an in-progress transcript of your work to date.
- If you have completed less than 14 transferable semester (21 quarter) credits after high school, also submit the following:
- Official high school transcript\* showing the date of graduation or GED test scores.
- If you will be younger than the age of 21 prior to the opening day of the semester during which you plan to enroll, official ACT or SAT results are required. \*\*

## Returning Applicants in Undergraduate Programs

If you previously enrolled at Boise State as a degree-seeking student, you will maintain "active" status for up to two years after the last semester of enrollment in classes. Check your myBoiseState (<https://my.boisestate.edu/>) account before submitting a new application. If it has been more than two years since you last enrolled, or if you were dismissed from Boise State, you need to re-apply.

To re-apply, submit the following:

- *Application for Undergraduate Admission*

Also submit any of the following that are needed to complete your file:

- Official transcripts\* from all other colleges or universities attended following your most recent semester at Boise State.

Note: Boise State retains admission materials for five years after your last term of enrollment. You may need to submit new materials if you have not attended for five years.

## Second Baccalaureate Applicant in Undergraduate Programs

- *Online Application for Undergraduate Admission*
- Official transcript\* from the college or university granting the baccalaureate degree. If the degree is from Boise State, a transcript is not needed.

## Nondegree-seeking Applicants

- *Application for Undergraduate Admission*

## Current or Returning Nondegree-seeking Students Who Want to Become Degree-Seeking

Submit the following:

- *Online Application for Undergraduate Admission*
- Also submit any of the following that are needed to complete your file:
- Official transcripts\* from all other colleges or universities attended.
- Official high school transcript\* or GED test scores if you have earned fewer than 14 transferable semester credits after high school.
- Official ACT or SAT results if you have earned fewer than 14 transferable semester credits after high school. If you will be younger than the age of 21 prior to the opening day of the semester during which you plan to enroll, these scores are required. \*\*

## Applicants in Graduate Programs

If you wish to pursue graduate studies, apply through the Boise State Graduate Admission and Degree Services Office, <https://www.boisestate.edu/graduatecollege>. For more information, see the *Boise State University Graduate Catalog*.

## Applicants from Other Countries

Refer to Admission of International Students, see page 25.

\*To be official, transcripts must be sent by the issuing institution directly to Boise State Undergraduate Admissions. See <https://www.boisestate.edu/admissions/appfee/official-transcripts/> for details.

\*\*ACT or SAT results are not required if you are 21 or older prior to the opening day of the semester during which you plan to enroll. The ACT code for Boise State is 0914; the SAT code is 4018.



## Important Deadlines

### Fall and Summer 2020

In order to be considered for merit-based scholarships, all application materials must be received by the Priority Application Deadlines listed below.

Applications for admission consideration will be accepted beyond the priority deadlines listed below on a space-available basis.

- Freshman and Transfer Priority Application Deadline (Nonresidents)—December 15, 2019
- Freshman and Transfer Priority Application Deadline (Residents)—February 15, 2020
- Transfer Standard Application Deadline—May 1, 2020

### Spring 2021

- Freshman and Transfer Priority Application Deadline—October 1, 2020
- Freshman and Transfer Standard Application Deadline—December 1, 2020

### Summer 2021

- Freshman and Transfer Priority Application Deadline (Nonresidents)—December 15, 2020
- Freshman and Transfer Priority Application Deadline (Residents)—February 15, 2021
- Transfer Standard Application Deadline—May 1, 2021

Students not meeting the admission requirements may apply as a nondegree-seeking student. Nondegree-seeking students can register for any combination of courses totaling 7 or fewer credits, or 2 courses totaling 8 credits. The summer session has no credit limit. Nondegree-seeking students are not eligible to receive federal financial aid.

### Fully Online Programs

Boise State's fully online programs may have deadlines that vary from the admission deadlines listed above. Students seeking admission to a fully online program should contact its respective department regarding deadlines for admission.

## Admission Standards

Note: Admission requirements are subject to change. For the most up-to-date information please check our website at <https://www.boisestate.edu/admissions/>.

### Idaho Residents

As an Idaho high school graduate under the age of 21, you will be considered for admission according to the *Idaho Resident Admissions Index* (Table 3.2), which considers a combination of your cumulative unweighted high school grade-point average (GPA) and ACT composite or SAT scores. There is no minimum SAT or ACT test score for Idaho applicants with an unweighted grade-point average (GPA) of 3.0 or higher. If you graduated from high school in 1989 or later and are 21 or older, you will be considered for regular admission if you had a 2.50 or higher unweighted cumulative high school GPA. If your unweighted cumulative high school GPA was between 2.00 and 2.49, your application will be considered on a case-by-case basis to determine your potential for academic success. If your unweighted cumulative high school GPA was a 1.99 or less, you are not eligible for degree-seeking admission. If you graduated from high school before 1989 and never attended college, you will be considered for regular admission.

Table 3.2—Idaho Resident Admissions Index

| High School Cumulative GPA (Unweighted) | Minimum ACT Composite Score | Minimum SAT Total Score |
|---|-----------------------------|-------------------------|
| 3.00–4.00                               | Any test score              | Any test score          |
| 2.99–2.94                               | 16                          | 860                     |
| 2.93–2.89                               | 17                          | 900                     |
| 2.88–2.83                               | 18                          | 940                     |
| 2.82–2.77                               | 19                          | 980                     |
| 2.76–2.71                               | 20                          | 1020                    |
| 2.70–2.66                               | 21                          | 1060                    |
| 2.65–2.60                               | 22                          | 1100                    |
| 2.59–2.54                               | 23                          | 1130                    |
| 2.53–2.49                               | 24                          | 1160                    |
| 2.48–2.43                               | 25                          | 1200                    |
| 2.42–2.37                               | 26                          | 1240                    |
| 2.36–2.32                               | 27                          | 1280                    |
| 2.31–2.26                               | 28                          | 1310                    |
| 2.25–2.20                               | 29                          | 1350                    |
| 2.19–2.14                               | 30                          | 1390                    |
| 2.13–2.09                               | 31                          | 1420                    |
| 2.08–2.03                               | 32                          | 1450                    |
| 2.02–2.00                               | 33                          | 1490                    |

## Nonresidents of Idaho

If you graduated from an accredited high school outside the state of Idaho and you are under 21 years of age, you will be considered for admission based on the *Nonresident Admissions Index*, which considers a combination of your high school grades and SAT or ACT scores. This index assigns more weight to your high school grades than it does your test scores.

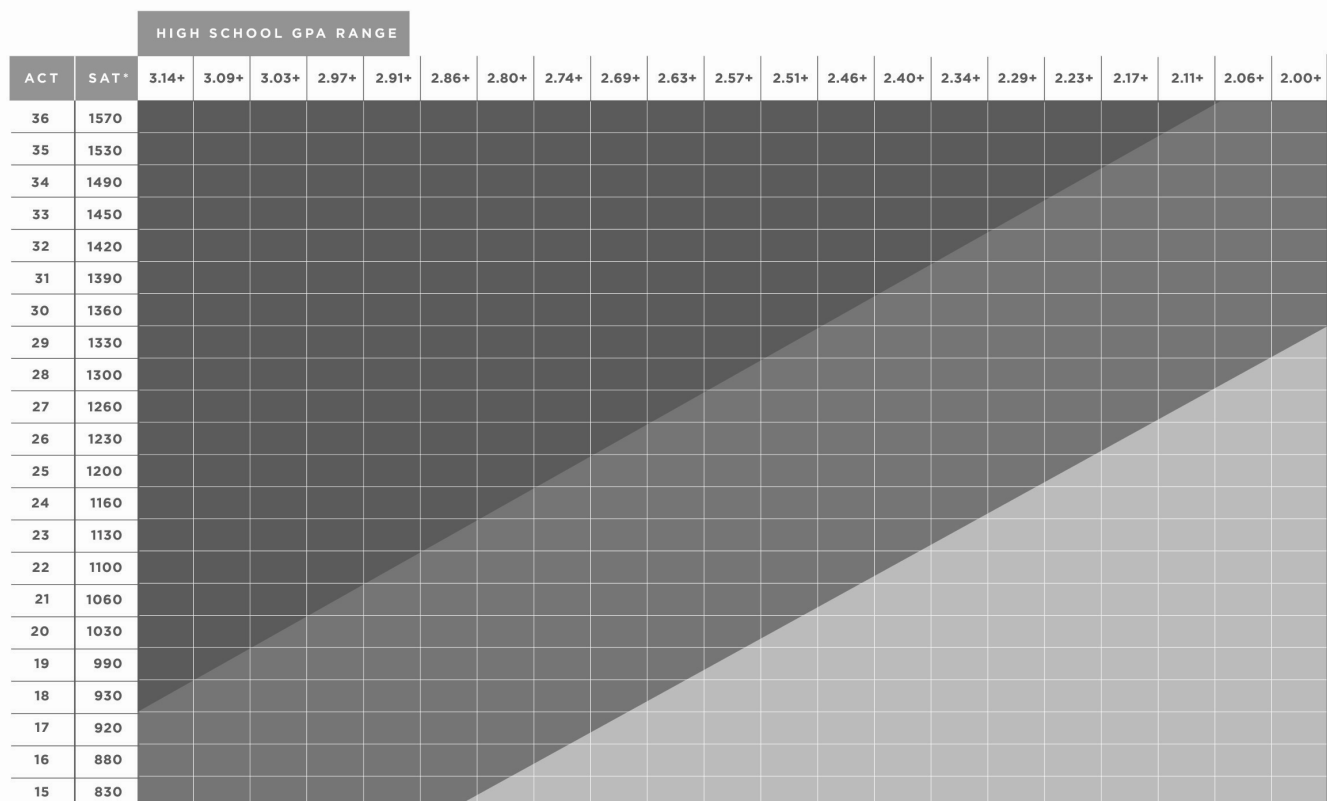
### Completed High School Equivalency

If you earned the GED or HiSET credential, you will be considered for admission based on a holistic review of your GED or HiSET scores, ACT or SAT scores, and a personal statement. During this review, we will assess your potential for academic success at Boise State. Specific requirements for high school equivalency applicants can be found at <https://www.boisestate.edu/admissions/apply/resident/#ged-students>.

### Homeschool or Unaccredited High School Graduate

If you graduated from an unaccredited high school or homeschool program and did not complete a GED or HiSET credential, you will be considered for admission based on a holistic review of your high school curriculum, ACT or SAT scores and a personal statement. During this review, we will assess your potential for academic success at Boise State. Specific requirements for homeschool program graduates can be found at <https://www.boisestate.edu/admissions/apply/resident/#homeschooled-students>.

Table 3.3 Nonresident Admission Index



|     |                                   |                                  |                                  |
|-----|-----------------------------------|----------------------------------|----------------------------------|
| KEY | EXCELLENT CANDIDATE FOR ADMISSION | POSSIBLE CANDIDATE FOR ADMISSION | UNLIKELY CANDIDATE FOR ADMISSION |
|-----|-----------------------------------|----------------------------------|----------------------------------|

Table 3.4—Idaho College Admission Core

| Subject Area                | Semesters | Courses   | Restrictions  |
|-----------------------------|-----------|---|---|
| English                     | 8         | Composition, Literature   | None  |
| Social Science              | 5         | American Government, Geography, U.S. History, World History, Economics, Psychology, Sociology   | None  |
| Mathematics                 | 6         | Applied Math I or Algebra I, Geometry or Applied Math II or III, Algebra II, Probability, Discrete Math, Analytic Geometry, Calculus, Statistics, Trigonometry, Courses not identified by traditional titles, e.g., Algebra I or Geometry, may be used if they contain all the critical components (higher math functions) prescribed by the State Mathematics Achievement Standards. | At least 4 semesters taken in grades 10 through 12. A total of 8 credits are strongly recommended.  |
| Natural Science             | 6         | Anatomy, Biology, Chemistry, Earth Science, Geology, Physiology, Physical Science, Physics, Zoology   | Selected applied science courses may count for up to 2 semesters. At least 2 semesters must be for courses that include a laboratory science experience.  |
| Humanities/Foreign Language | 2         | Literature, History, Philosophy, Fine Arts (if the course includes components recommended by the State Department of Education, e.g., theory, history appreciation and evaluation), and inter-disciplinary humanities (related study of two or more of the traditional humanities disciplines).   | History courses beyond those required for state high school graduation may be counted toward this category. Foreign Language is strongly recommended. The Native American Languages may meet the foreign language credit requirement. |
| Other College Preparation   | 3         | Speech or Debate (no more than one (1) credit). Debate must be taught by a certified teacher. Studio/Performing Arts (art, dance, drama, and music). Foreign Language (beyond any foreign language credit applied in the Humanities/Foreign Language category).   | Up to 2 semesters of approved State Division of Professional-Technical Education—approved classes may count; consult your high school counselor.  |

## Standards for Transfer Students

If you have completed 14 or more transferable semester (21 quarter) credits after graduating from high school, have a cumulative 2.25 GPA or higher, and were in good academic standing at the current/last institution you attended, you will be admitted with regular admission.

If you have completed 14 or more transferable semester credits (21 quarter credits) after graduating from high school, and have earned an Associate of Arts or Associate of Science or are core certified from a regionally accredited academic institution, and have a 2.00 GPA or higher, you will be admitted with regular admission.

If you have completed more than 14 credits after high school, but have not yet earned an associate degree or core certification, and have a GPA range of 2.00 to 2.24, your application will be reviewed on a case-by-case basis to determine your potential for academic success.

If you completed less than 14 transferable semester (21 quarter) credits after high school, also submit the following:

- High school transcript (or GED results).
- ACT or SAT results (not required for students who are 21 or older prior to the first day of classes).

If you have less than a 2.00 cumulative transfer GPA, you will not be eligible for degree-seeking admission. You may choose to improve your GPA at your current institution or attend Boise State as a nondegree-seeking student.

If you were dismissed from a college or university within the last semester, you are not eligible to attend Boise State until sitting out at least a fall or spring semester.

## Standards for Returning Students

If you have completed fewer than 14 academic semester credits, you will be considered for admission based on your high school transcript (or high school equivalency credential) and your college record. If you are returning to Boise State with 14 or more completed college-level credits, you will be considered for admission based on college coursework you have completed since leaving Boise State. If you have not attended another college since leaving Boise State, and you have not previously been dismissed from Boise State, you are only required to submit a new application for admission. If you have attended any other colleges or universities since attending Boise State, you will need to have a cumulative 2.25 GPA or higher on all post-Boise State coursework. If you were previously academically dismissed from Boise State, you must sit out for one semester (fall or spring) after the first dismissal and for one academic year after any subsequent dismissal before you can apply for reinstatement. You will be permitted no more than two (2) reinstatements. A third dismissal is final, unless a successful appeal is made to the Registrar's Office.

## Standards for Second Baccalaureate Degree Students

If you have a baccalaureate degree from a regionally accredited academic institution and will take undergraduate courses, either as a nondegree or degree-seeking student, you must apply for undergraduate admission. If applying for degree-seeking status, a 2.00 cumulative GPA is required for regular admission. Once admitted, you must meet with the department chair of your major to determine your degree requirements.

If you already have a baccalaureate degree and will take graduate courses and ultimately your intent is to pursue graduate studies, either as a nondegree or degree-seeking student, you apply through the Graduate College. For more information, see the *Boise State University Graduate Catalog*.

## Standards for Nondegree-seeking Students

If you are applying for admission solely to take courses of interest, applying for nondegree-seeking status is a convenient option. Nondegree-seeking status simply requires that you have a high school diploma\* from an accredited high school or a GED. Applicants must not have been dismissed from a college or university within the last semester. As a nondegree-seeking student during fall and spring semesters, you can register for any combination of courses totaling 7

or fewer credits, or 2 courses totaling 8 credits. The summer session has no credit limit. Any credits that you earn as a nondegree-seeking student are applicable toward earning a degree. Please be aware that nondegree-seeking students pay part-time fees; those deemed nonresidents of Idaho pay additional per-credit nonresident tuition. Also, nondegree-seeking students are not eligible to receive federal financial aid. Students who were dismissed at any other college or university are not eligible to attend Boise State until sitting out at least a fall or spring semester.

\*Students under the age of sixteen may attend Boise State University as a nondegree-seeking student before graduating from high school after meeting the following admission requirements:

- 3.00 cumulative unweighted GPA on middle school and/or high school coursework
- Signed parent/guardian permission form
- Positive recommendation from the Office of the Dean of Students resulting from a meeting with student and guardian

## Concurrent Enrollment for High School Students

If you would like to attend high school and college courses simultaneously, you may be eligible for concurrent enrollment at Boise State. To take courses on your high school campus or on the Boise State campus as a concurrent enrollment student, you must have a high school cumulative GPA of 3.00 or above. For more information, call (208) 426-3750 or visit <https://www.boisestate.edu/concurrentenrollment/>.

## Admission of International Students and the Center for Global Education

Boise State University, through its Center for Global Education, welcomes undergraduate and graduate students from around the world.

As a prospective student, you must demonstrate English language proficiency by meeting one of the criteria noted below. Also, if your transcript or marksheets are not issued in English, you must submit the official documents in the native language that have been verified or attested by the school you attended along with official translations. Guidelines for how to send official transcripts can be found on the International Admissions website: <https://www.boisestate.edu/globaleducation-international/>.

All international students must submit an *International Student Application for Admission* (links below) and nonrefundable application fee:

- Undergraduate students: <https://app.applyyourself.com/AYApplicantLogin/ApplicantConnectLogin.asp?id=boisestate>
- Graduate students: [https://app.applyyourself.com/AYApplicantLogin/fl\\_ApplicantConnectLogin.asp?id=boisegrad](https://app.applyyourself.com/AYApplicantLogin/fl_ApplicantConnectLogin.asp?id=boisegrad)

## Standards for Freshman Admission

You will be considered for admission if your secondary school grades convert to a minimum U.S. cumulative grade-point average (GPA) of 2.50 and meet the pre-university requirements of your home country. If your converted GPA is between 2.00 and 2.49, your application will be considered on a case-by-case basis to determine your potential for academic success.

## Standards for Transfer Admission

You will be admitted with regular admission as a transfer student if you have completed 14 or more transferable semester credits, your converted U.S. cumulative GPA is 2.25 or higher, and were in good academic standing at your current institution or the last institution you attended.

If you have more than 14 credits, but have not yet earned an associate degree or core certification, and have a GPA range from 2.0 to 2.24, your application will be reviewed on a case-by-case basis to determine potential for academic success. See Chapter 10—*Obtaining a Degree at Boise State University*, specifically under Transferring Credits to Boise State, for information on international credit evaluation.

Boise State requires that transcripts from international institutions be evaluated by an academic credential evaluation service before transfer credit is evaluated and posted. Boise State only accepts courses with grades of C or higher. All

## ADMISSIONS

courses are transferred in with a grade of pass. If you have questions about the evaluation of international transfer credit, contact the Registrar's Office at (208) 426-4249 or at [regmail@boisestate.edu](mailto:regmail@boisestate.edu). If you have completed the equivalent of a U.S. bachelor's degree, your transcripts will not be evaluated.

World Education Services, a recognized nonprofit organization, will evaluate transcripts from schools located outside the U.S. Boise State only accepts courses with grades of C or higher. All courses are transferred in with a grade of pass. If you have questions about the evaluation of international transfer credit, contact the Registrar's Office at (208) 426-4249 or at [regmail@boisestate.edu](mailto:regmail@boisestate.edu). If you have completed the equivalent of a U.S. bachelor's degree, your transcripts will not be evaluated.

Student visa holders (F-visa) must transfer an active SEVIS record from their current school to Boise State before attending classes. Students must be appropriately maintaining their F-1 status to be eligible for admission to Boise State University. For more information, please contact the immigration advisor at your current school and at Boise State.

### Deadlines and Other Information

After admission, if you plan to enter the United States on a student visa, you will also be required to submit a signed *Financial Documentation Form* with verification of financial resources to cover one full year of expenses.

All application materials must be received in the International Admissions Office by the priority deadlines:

- Fall Semester 2020: May 15, 2020
- Spring Semester 2021: October 15, 2020

You may submit your application materials at any time before the priority deadline. Early application is encouraged.

If you meet all admission requirements and supply the necessary financial documentation, you will be issued immigration documents necessary to apply for a student visa. For more information, please contact the International Admissions, [interntl@boisestate.edu](mailto:interntl@boisestate.edu) or (208) 426-4367.

### English Language Proficiency Requirement

International students at Boise State University must demonstrate English language proficiency to be admitted into academic studies. You may meet the English Language Proficiency Requirement by submitting official TOEFL or IELTS scores. Scores must be submitted directly from the testing agency and are valid for two years\* since the date when the test was taken. The minimum score required for admission is:

- TOEFL score of 51 (revised paper-based), 520 (old paper-based) or 68 (Internet-based) or better\*
- IELTS overall score of 6.0 or better\*

There are additional options for demonstrating English language proficiency. Please refer to the full list of proficiency options at <https://www.boisestate.edu/global-education-international/>. Meeting score requirements does not guarantee admission. Boise State may request additional supporting documentation and/or an interview to validate English proficiency if deemed necessary during application review.

\*With a TOEFL score of at least 500/61 or an IELTS score of 5.5, you may be eligible for the Pathway Program as an undergraduate student to Boise State University. To participate in the Pathway Program, you must first enroll in the Intensive English Program. Please refer to the Intensive English Program website at <https://www.boisestate.edu/english/> for information.

You may be exempt from this requirement if you are a native English speaker, if English is your first language, or if you have been educated in an approved country. Please contact the International Admissions for further information.

### Pathway Program

The Boise State Pathway Program is designed for students who seek admission to a Boise State degree but whose English proficiency level does not meet the Boise State requirement for full admission. The Pathway Program offers language skill development, academic preparation and ongoing cultural and academic orientation to secure students' success at Boise State and beyond. While in the Pathway Program, students advance their English language skills while simultaneously making academic progress toward graduation requirements. The Pathway Program is equipped to provide the best introduction to the U.S. classroom style, academic culture and study skills. Upon successful completion of the Pathway Program, students are granted full admission to Boise State University and can move on to their respective academic departments and take full-time academic courses.

### Health Insurance Coverage

All students on F-1 and J-1 student visas must purchase the university's health insurance plan. For information about required health insurance, contact the Health Insurance and Billing Office at [healthinsurance@boisestate.edu](mailto:healthinsurance@boisestate.edu) or (208) 426-2158.

### Your Admission Status

After reviewing your application and supporting materials, Admissions will make an admission decision. Specifically, you will either be admitted with regular, conditional or nondegree-seeking status, or be denied admission to the university. Each type of admission status is defined below, along with any special restrictions associated with that type of status.

#### Regular Status

You meet all requirements for admission to the university. No special restrictions apply to your admission and no further transcripts or information is required.

#### Conditional Status

You have been admitted on conditional status because the transcript you submitted was in-progress. Once Admissions reviews your official transcript with final grades, you will be assigned a final admission status. Your admission under conditional status may remain in effect for no longer than one semester. You will not be able to register for subsequent semesters until you submit an official transcript with grades reported for all coursework completed.

#### Denied Status

You do not meet the standards for admission and are denied as a degree-seeking student. You may inquire with Admissions about options moving forward and how to strengthen your application to apply for a future semester.

#### Nondegree-seeking Status

Designed for students applying solely to take courses of interest. As a nondegree-seeking student, you can register for any combination of courses totaling 7 or fewer credits, or 2 courses totaling 8 credits. The summer session has no credit limit. These credits are applicable toward a degree if you are later admitted as a degree-seeking student. However, if you are nondegree-seeking, you are ineligible for federal financial aid.

## When You Are Admitted

### Intent to Enroll and Enrollment Confirmation

New students planning to enroll at Boise State are required to reserve their spot in the incoming class by submitting the online Intent to Enroll and \$100 enrollment confirmation. Both are required before a student is allowed to sign up for a new student orientation program or apply for on-campus housing.

The Intent to Enroll:

- secures your place in the incoming class,
- allows you to apply for on-campus housing,
- allows you to sign-up for a new student orientation program,
- secures any scholarships that you've been offered. Scholarships and financial aid will still need to be accepted,
- ensures quick processing of your final enrollment materials, and
- helps us plan for the incoming class (so even if you're enrolling elsewhere, please let us know your plans).

**Table 3.5—Who is Required to Submit the Intent to Enroll and Enrollment Confirmation?**

|                               | <i>Resident</i> | <i>Nonresident</i> |
|-------------------------------|-----------------|--------------------|
| Fully Online*                 | No              | No                 |
| Apply Idaho**                 | \$100           | n/a                |
| New Degree Seeking            | \$100           | \$100              |
| Nontraditional Degree Seeking | \$100           | \$100              |
| Transfer Degree Seeking       | \$100           | \$100              |
| Second Degree Seeking         | No              | No                 |
| Returning***                  | No              | No                 |
| New Non-Degree                | No              | No                 |
| Regional Site Students        | No              | No                 |

\*Fully online is defined as anyone who indicates on the application that they intend to enroll "Entirely through online delivery."  
 \*\*Apply Idaho is the portal application for Idaho high school seniors to apply to Idaho institutions.  
 \*\*\*Returning is defined as anyone who indicates they have previously enrolled at Boise State on the application (excludes concurrent enrollment).

### Deadlines for Intent to Enroll and Enrollment Confirmation

- Fall Semester 2020 (Freshmen)—May 1, 2020
- Fall Semester 2020 (Transfer)—August 1, 2020
- Spring Semester 2021—December 1, 2020
- Summer Sessions 2021—May 1, 2021

### Retention of Admission Records

Admissions retains your admission file for five years after the date of your last attendance. If you applied for admission but never enrolled, your records are kept for two years. If you reapply to Boise State beyond these retention periods, you may be asked to furnish new application materials, such as official transcripts.

### Petitions

If you do not meet the admission standards for regular or conditional admission as a first-time freshman, you are encouraged to complete 14 college-level semester credits at a regionally accredited two- or four-year college and re-apply as a transfer student. See section on Standards for Transfer Students for more detail. If you believe unusual or extraordinary circumstances prevented you from meeting admission standards, you may petition for special consideration. To file a petition, contact Admissions, located on the first floor of the Student Union Building, or call (208) 426-1156 to receive more information.



### Questions About These Policies?

If you have questions about these policies, contact Admissions, Student Union Building, First Floor, (208) 426-1156 or (800) 824-7017 or [admissions@boisestate.edu](mailto:admissions@boisestate.edu).

# Chapter 4—Registration Policies and Procedures

This chapter discusses policies related to orientation, registration, dropping or adding courses, and withdrawals. Registration takes place each semester, including summer session, and consists of three distinct phases: continuing, new, and open registration. As an active student, you will be assigned an enrollment appointment. Beginning at that time and until registration closes, you can log onto your Student Center via myBoiseState (<https://my.boisestate.edu/>) and register. General descriptions of continuing, new, and open registration are provided below.

In addition, this chapter defines the policies and procedures governing complete withdrawals from Boise State University, faculty-initiated withdrawals, and administrative withdrawals from the university. Finally, this chapter defines policies governing credit and audit status.

## Academic Calendar

Boise State's Academic Calendar, which lists all the registration deadline dates for the current catalog year, can be found in the front of this catalog and on the Registrar's website at <https://www.boisestate.edu/registrar/boise-state-academic-calendars/>. The Academic Calendar specifies the policy deadlines, by semester and session, for the following: registration, adding and dropping classes, and withdrawals. You are strongly encouraged to familiarize yourself with this calendar, especially the *Deadlines by Session* table located at the top of the Academic Calendar, you will be held accountable for meeting these deadlines.

## Academic and Fee Policy

Once you register for classes, you remain registered and are held responsible for the fees and grades assessed for these classes unless you cancel your registration. If you do not pay for or do not attend these classes, you are still held responsible for the fees and grades assessed. If you decide not to attend any classes, you must log in to your Student Center on myBoiseState (<https://my.boisestate.edu>) no later than the deadline and drop all classes (see the *Academic Calendar Deadlines by Session* table and Rules for Dropping a Workshop). This includes any courses and workshops that begin later in the semester and any courses still waitlisted.

If you do not cancel your registration or pay your fees by the fee payment deadline, you will remain registered, you will be charged course fees, and you will be assessed a \$50 late penalty.

Please note: cancellation of courses may have financial aid impacts. You may be required to repay all, or a portion, of any financial aid awarded to you.

## Enrollment Appointments

### Continuing Students

If you are an active degree-seeking student, you may register during continuing registration, which is held in April (for the upcoming fall semester) and in October (for the upcoming spring semester). Summer session registration occurs in February for the upcoming summer. For exact dates, consult the Academic Calendar. During continuing registration you may register by appointment on myBoiseState (<https://my.boisestate.edu/>), according to a schedule established by the Registrar's Office. Appointments are assigned based on credits completed (not including in-progress credits). Once appointments have been assigned, the Registrar's Office will notify you via BroncoMail to check your appointment time on myBoiseState (<https://my.boisestate.edu/>).

### New and Transfer Students

If you are a new degree-seeking student (including transfer), you are expected to sign up for, and attend, a BroncoVenture Orientation program where you will register for classes. BroncoVenture Orientation programs are held for both the fall and spring semesters; upon admission or readmission, you will receive an email with directions to RSVP for a program. Space is limited in each program and you should RSVP at your earliest convenience.

BroncoVenture Orientation will ease your transition into the Boise State community, provide you with academic advising, and aid you in course selection on-site. Contact the New Student Programs Office at (208) 426-1679 or visit <https://www.boisestate.edu/nspl/> for more information.

## Readmitted and Returning Students

If you are a readmitted or returning student, you will be assigned an appointment during continuing registration, which is held in April (for the upcoming fall semester) and in October (for the upcoming spring semester). Your appointment time will appear on your myBoiseState (<https://my.boisestate.edu/>) account.

If you do not see an appointment time on your account by the beginning of April for fall and mid-October for spring, please contact the Registrar's Office at (208) 426-4249 or stop by the Administration Building, Room 110.

## Nondegree-seeking Students

If you are a nondegree-seeking student, your registration occurs during Open Registration.

## Open Registration

Open registration for the fall semester begins the Tuesday prior to the start of the term and runs through the tenth day of the semester.

Open registration for the spring begins the Monday after winter commencement and runs through the tenth day of the semester.

Open registration for the summer sessions begins in February. See the *Academic Calendar Deadlines by Session* table for specific dates.

## Credit/Audit Status

During registration on myBoiseState (<https://my.boisestate.edu>), you may elect to take a course for audit instead of credit, if space is available in the class. Register by selecting audit status with the understanding that you will receive neither credit nor a grade (A+ through F) and regular course fees apply. On your transcript, audit status indicates that you had a seat in the class, but may or may not have participated in class activities. You may change your registration status from credit-to-audit or audit-to-credit until the appropriate session deadline (see the *Academic Calendar Deadlines by Session* table). If you fail to meet the audit requirements established by the instructor, the instructor may give you a final grade of UAU (Unsatisfactory Audit). For more information, contact the Registrar's Office, Administration Building, Room 110, (208) 426-4249.

## Adding Classes

Before the semester begins, you may add classes to your schedule through the Student Center on myBoiseState (<https://my.boisestate.edu/>), if there is space available in the class. If a class is full, you may place yourself on a waitlist to enroll in the class if a seat becomes available. You may continue to add classes after the first day of classroom instruction up to the appropriate session deadline. However, after the fifth day of the semester's regular session, you must obtain the instructor's approval to add the class. Instructors may refuse to grant a permission number if the class is full (see the *Academic Calendar Deadlines by Session* table in the front of this catalog for the exact deadline). They may also refuse permission if your late entry would prevent you from benefiting fully from the class, or would prevent other students in the class from doing so. If you do receive a permission number, enter the number in your Student Center when you register for the class. If you are registering for, or adding, a directed research, an independent study, internship/practicum, or reading and conference you may do so through the end of the sixth week of the semester (see the *Academic Calendar Deadlines by Session* table).

## Waitlisting

When attempting to enroll in a full course, usually you will be given the option to put yourself on the waitlist for the course. Your eligibility to be on the waitlist depends on whether you meet the requisites for the course. Please note that some courses do not provide a waitlist option. Once on a waitlist, if a seat becomes available, you will automatically be added to the course and notified via an email sent to your BroncoMail account. If you are on multiple waitlists for different sections for the same course, you will be removed from the other waitlists at that time. The waitlist process runs five times daily throughout the registration process and is "closed down" on the last day a class can be added

without an instructor's permission number (see the *Academic Calendar Deadlines by Session* table). If you are already enrolled in another section of the course that is waitlisted or have time conflicts with other courses, you will not be enrolled via the waitlist process.

### 21-Credit Cap

You may enroll in a maximum of 21 credits per term. If you want to take more than 21 credits in a term, you will need to work with your advisor to complete *Request to Exceed 21 Credit Hours* form.

For more information about adding classes, contact the Registrar's Office, Administration Building, Room 110, (208) 426-4249.

### Dropping Classes

You may drop regular session classes from your schedule, by accessing your Student Center on myBoiseState (<https://my.boisestate.edu/>) through the tenth week of the semester. See the *Academic Calendar Deadlines by Session* table in the front of this catalog for the exact deadline. If you drop a regular session class before the tenth day of the semester, the class will not appear on your transcript. However, if you drop a regular session class after the tenth day of the semester, your transcript will show a grade of W (for withdrawal) for that class. Grades of W will not be used in GPA calculation (see Withdrawals for the maximum number of W grades you can accrue). Workshops, short courses, five-week, and seven-week block courses have different deadline dates. See the *Academic Calendar Deadlines by Session* table in this catalog for the exact deadline.

### Withdrawals

- You may accrue up to ten (10) withdrawals for a baccalaureate degree and up to five (5) for an associate degree.
- Any grades of W received in an associate degree program count toward the 10 allowed for the baccalaureate degree program.
- Withdrawals from co-requisite courses (lecture/lab) will count as one W, unless the co-requisite courses are two separate graded courses.
- Grades of W earned prior to Spring 2014 semester are not counted toward the number allowed.

Once you have exhausted the number of W grades allowed, you may be removed from your major. Once you have completed a degree, you may earn an additional ten (10) grades of W toward a second baccalaureate degree or an additional five (5) grades of W toward an additional associate degree.

Note: The university has placed limits on the number of times you may enroll in a course. For more information, see Chapter 5—*Grades, Repeating a Course*.

Note: If you intend to drop a class where you have been issued university property—such as uniforms, instruments, or lab equipment—you must return the property before dropping the class. If you fail to do so, the department will place a hold on your record.

### Drop Fee

You are expected to finalize your class schedule at the beginning of each term. Dropping unwanted courses as the semester begins allows other students the opportunity to add the courses they need. You will have the opportunity to attend the first class session to make a decision to stay enrolled or drop before a \$10 drop fee per course is charged. The drop fee deadlines vary by session. See *Academic Calendar Deadlines by Session* table for the deadlines.

For more information about dropping classes, contact the Registrar's Office, Administration Building, Room 110, (208) 426-4249.

### Workshops

Workshops have special deadlines. Special Session 1 (SP1) is typically utilized for workshop or special event courses that span four days or fewer. This will allow you to add up until the day before the class begins and drop with a W one day before the class ends. If the class is dropped the last day, the drop will result in a grade of F.

Special Session 2 (SP2) is used to schedule courses that fall outside of standard predefined sessions (e.g., 1<sup>st</sup> 7-week, 2<sup>nd</sup> 5-week), and that span 5 days or

more. This will allow you to add through the first day of class and drop without a W through the second day of class. The last date to drop with a W varies by course, and you are strongly encouraged to access your class schedule on myBoiseState (<https://my.boisestate.edu/>) and click on the Deadline link for the specific class to confirm the final penalty date.

To enroll in a workshop that is full and has not started yet, you must submit a *Registration Override Form*, with the instructor's signature, to the Registrar's Office, Administration Building, Room 110, (208) 426-4249, no later than the day before the workshop starts. Workshops do not have permission numbers.

### Appeals to Drop a Class After the Deadline

If you need to drop a class in a current semester after the last drop deadline for the session, but before the session ends, you must submit an appeal using the *Request to Drop a Class After the Deadline* form. Read the instructions, fill out the form, submit a written letter, and provide documentation of extenuating circumstances that would justify an exemption to the drop deadline policy. The instructor may deny the appeal. If the instructor signs the form, then you can proceed to request approval and signature from the dean (or associate dean) of the college offering the course. Once you receive all required signatures, submit the form to the Registrar's Office, Administration Building, Room 110, (208) 426-4249, for processing. The form is located online at <https://www.boisestate.edu/registrar/student-forms/>.

### Faculty-Initiated Withdrawals

An instructor has the option of withdrawing you from a course if any of the following conditions are present:

- you fail to attend one of the first two meetings of a class that meets more than once each week, or
- you fail to attend the first meeting of a class that meets once each week.

You should not expect that an instructor will withdraw you for nonattendance. The primary responsibility for course withdrawal rests with you.

To withdraw a student for failing to attend one of the first two meetings of a class that meets more than once each week or the first meeting of a class that meets once each week, the instructor has the option to submit a *Faculty-Initiated Withdrawal Form* to the Registrar's Office, Administration Building, Room 110, (208) 426-4249, within the first five days of the semester. If you are withdrawn from a course for failing to attend these specified class meetings, you may re-enroll in the course with the instructor's permission through the tenth day of the semester (see the *Academic Calendar Deadlines by Session* table in this catalog for the exact deadline of the various sessions). To be withdrawn for failing to satisfy entrance requirements, the instructor or the department must notify you of the impending withdrawal and then request the withdrawal through the Registrar's Office. All faculty-initiated withdrawals will be removed from your record and will not appear on your transcript.

### Department-initiated Withdrawals

To be withdrawn for failing to satisfy entrance requirements, the department must notify you of the impending withdrawal and then request the withdrawal through the Registrar's Office. All department-initiated withdrawals will be removed from your record and will not appear on your transcript.

### Attendance Policy

You are responsible for attending courses in which you are enrolled. You are also responsible for making up any work you may have missed by failing to attend class, even if the absence was approved by Boise State University, necessitated by illness, or necessitated by a personal emergency. In this sense, then, there are no "excused" absences.

Please note, you should consult your course syllabus for instructor's class attendance policy.

### Complete Withdrawal from Boise State

If you wish to leave the university in good standing, you must drop all your current semester classes and remove yourself from any waitlists by logging in to your Student Center on myBoiseState (<https://my.boisestate.edu>). See the *Academic Calendar Deadlines by Session* table in the front of this catalog for specific deadlines for the various sessions. If the complete withdrawal for regular session is made after the tenth day of classes and you have not paid your fees, you are still responsible for the entire amount of fees incurred plus a nonrefundable \$40.00 administrative processing fee. If you do not cancel your registration or completely withdraw by the appropriate deadline for the session, you will be awarded a final grade of F.

A complete withdrawal after the published deadline will only be granted by appeal and because of extraordinary circumstances. An *Academic Appeal Form* must be completed and submitted to the Registrar's Office. The Academic Appeal form can be found online at <https://www.boisestate.edu/registrar/home/student-forms/> For information on refunds of tuition and fees following a complete withdrawal, see Chapter 6—*Tuition and Fees*.

### Financial Aid and Withdrawals

If you withdraw from the university, you need to be aware of federal regulations impacting your financial aid eligibility. Withdrawals will impact your compliance with Satisfactory Academic Progress (SAP). Please see the policy at <https://www.boisestate.edu/financialaid/>. Complete withdrawals may also result in a financial obligation by you to return the unearned portion of any federal aid that disbursed to you, or your student account. You must repay Boise State for any unearned aid that had applied toward tuition and fee charges. A repayment may also be required for unearned aid disbursed directly to you. A full explanation of this policy, including examples, is available at <https://www.boisestate.edu/financialaid/home/impacts-on-aid/>. If you are considering withdrawing from Boise State, we strongly recommend that you review this information. If you still have questions, please contact the Financial Aid Office, (208) 426-1664, for more information.

### Administrative Withdrawal from Boise State

An administrative withdrawal is the process by which Boise State formally withdraws you from classes and/or from the university, usually without your consent or cooperation. You may be administratively withdrawn for a variety of reasons, including the following:

- failing to pay library fines, overdue loans, deferred fee payments, housing accounts, or other such charges,
- falsifying information on an admissions application or other university record or document,
- failing to respond to an official summons issued by the university,
- failing to pass prerequisite coursework,
- failing to meet academic standards, or
- exhibiting behavior that constitutes a clear and present danger to yourself or to others.

Administrative withdrawals due to nonpayment of financial obligations (library fines, overdue loans, deferred fees, housing accounts, etc. ) are recorded with a grade of W and appear on your transcript if processed after the tenth day of the semester.

Administrative withdrawals due to ineligibility to be in a course or continue in school for reasons other than nonpayment of financial obligations may or may not appear on your transcript.

Notification of administrative withdrawals are sent to your BroncoMail account.



#### Questions About These Policies?

If you have questions about these policies, contact the Registrar's Office, Administration Building, Room 110, (208) 426-4249.



# Chapter 5—Grades

## Boise State University’s Grading System

Boise State University uses a 4.00 grading scale. Table 5.1 lists the letter grades that instructors use to document their evaluation of your work and your academic status in the class. In addition, Table 5.1 defines the meaning of each letter grade and specifies the number of quality points that correspond to each grade. Quality points are used to determine your grade-point average (GPA). The procedure for calculating your GPA is described under “How to Calculate Your Grade-Point Average (GPA)” below.

Table 5.1—Letter Grades

| Letter Grade | Meaning  | Quality Points per Credit Hour      | Used to Calculate GPA? |
|--------------|--|-------------------------------------|------------------------|
| A+           | Distinguished work   | 4                                   | Yes                    |
| A            | Distinguished work   | 4                                   | Yes                    |
| A-           | Distinguished work   | 3.7                                 | Yes                    |
| B+           | Superior work  | 3.3                                 | Yes                    |
| B            | Superior work  | 3                                   | Yes                    |
| B-           | Superior work  | 2.7                                 | Yes                    |
| C+           | Average work   | 2.3                                 | Yes                    |
| C            | Average work   | 2                                   | Yes                    |
| C-           | Average work   | 1.7                                 | Yes                    |
| D+           | Below-average work   | 1.3                                 | Yes                    |
| D            | Below-average work   | 1                                   | Yes                    |
| D-           | Below-average work   | 0.7                                 | Yes                    |
| F            | Failure  | 0                                   | Yes                    |
| P            | Pass: satisfactory work equivalent to C or higher; credits earned  | 0                                   | No                     |
| I            | Incomplete (See Incomplete Grades in this chapter. )               | 0 (until changed to a letter grade) | No                     |
| W            | Student withdrew from the course                                   | 0                                   | No                     |
| AUD          | Course was taken under audit status                                | 0                                   | No                     |
| UAU          | Unsatisfactory Audit (did not meet requirements set by instructor) | 0                                   | No                     |
| CW           | Student completely withdrew from all classes that semester         | 0                                   | No                     |

## How to Calculate Your Grade-Point Average (GPA)

Boise State calculates and documents three types of grade-point averages (GPA):

- Cumulative GPA
- Semester or term GPA
- Boise State GPA

Each of the three types of GPA is calculated with the same formula:

**Total quality points earned divided by GPA credits attempted = GPA**

In calculating your cumulative GPA, Boise State uses courses you have taken at the university in your current career and all courses you have transferred from other post-secondary institutions—but only if you received a final letter grade (A+ through F) in those transferred courses. During any semester you can be enrolled in one of two possible careers: undergraduate or graduate.

In calculating semester GPA, the formula uses only the quality points earned and GPA credits attempted that semester. For Boise State GPA, the formula

uses only quality points earned and GPA credits attempted at Boise State in your current career.

All GPA calculations exclude credits for:

- pass/fail courses in which you received a final grade of P (Note: a grade of F will impact your GPA),
- courses that you registered for, but later dropped from your schedule, even though the course may appear on your transcript with a final grade of W or CW,
- courses you took under audit status (AUD or UAU), and
- courses in which you have received the grade of I, for incomplete (until the I is changed to a letter grade).

## Incomplete Grades

Instructors can enter a grade of I—for incomplete—if both of the following conditions are present:

- Your work has been satisfactory for 80% of the semester.
- Extenuating circumstances make it impossible for you to complete the course before the end of the semester.

To receive an incomplete, you and your instructor must agree to a contract stipulating the work you must do and the time in which it must be completed for you to receive a grade in the class. The terms of this contract are viewable on myBoiseState (<https://my.boisestate.edu/>) under your Student Center To Do List. The contract time varies as set by the instructor, but may not exceed one year. If no grade other than incomplete has been assigned one year after the original incomplete, a grade of F will automatically be assigned. The grade of F may not be changed without approval of the University Academic Appeals Committee. As long as you have an incomplete in a class, you may not re-enroll in the class during another semester. A grade of incomplete is excluded from GPA calculations until you receive a final grade in the course. You cannot graduate with a grade of I (incomplete) on your record.

## Dean’s List

The dean’s list is a roster of undergraduate students who have received very high grades during a particular fall or spring semester of full-time enrollment. To be included in the dean’s list, you must meet the following criteria:

- You must complete 12 or more college-level credit hours in a given semester, excluding classes graded Pass/Fail.
- For that semester, you must attain a semester grade-point average (GPA) of 3.50 or higher.
- For that semester, you may not receive a grade of I for incomplete.

You will receive an Honors designation on the dean’s list if you attain a GPA of 3.50 to 3.74, High Honors for a GPA of 3.75 to 3.99, and Highest Honors for a GPA of 4.00. This designation will appear on your transcript.

## Repeating a Course

If you wish to improve your grade in a course, you may register for an individual course a maximum of two (2) times. Third or subsequent attempts require approval of the academic advisor of your major and the chair of the department offering the course on a *Request to Exceed Maximum Course Registration* form. Grades of W and CW count in the individual course maximum of two (2) times. Prior learning credits cannot be used to repeat a course.

Effective Spring 2014, while earning an undergraduate degree, the maximum number of overall course repeats is six (6). For the purposes of counting the overall repeat maximum, neither grades of W or CW count.

If you have exhausted six (6) repeats, you must either meet with the department of your current major to receive permission to continue in the major or declare a new major. If declaring a new major, you must select a major that can be completed without incurring additional repeats. Be aware that the maximum number of six (6) repeats is not reset when your major is changed.

**Exceptions to the Repeat Count:**

- Regular session courses dropped within the first ten (10) days of the semester are excluded from the course repeat maximum (see the Academic Calendar for drop deadlines for other sessions).
- Courses that can be taken multiple times for additional credit (per the university catalog) are also excluded from the course repeat maximum.
- Practicum, internship, project, thesis, dissertation, independent studies, and student teaching may not be repeated to improve a grade.
- Grades of W (withdrew from the course) and grades of CW (completely withdrew from all classes that semester) are not considered an earned grade.
- Courses repeated at other institutions prior to transfer are excluded from the overall course repeat maximum.
- Repeat maximums in a first undergraduate degree do not apply to a second undergraduate degree. If you are completing a second undergraduate degree, you are allowed a new repeat maximum of six (6) courses.
- Remedial courses (e.g., MUS-APL 010, THEA 010) are excluded from the registration maximum.

If you repeat a course, only the most recent repeated course may count toward a degree; all grades will appear on the Boise State transcript including grades of W or CW.

Your grade-point average (GPA) is affected by repeating courses. When you repeat a course, both grades appear on your transcript. Note:

- Courses repeated prior to Fall 1995 use a grade replacement policy. Only the most recent grade was used in calculating the cumulative GPA.
- Courses repeated Fall 1995 through Summer 2001 used a grade-averaging policy. Courses repeated during this period will be averaged, using both grades in the calculation of the GPA.
- Beginning Fall 2001, courses repeated will use a grade replacement policy. Only the most recent grade will be used in calculation of the cumulative GPA.

**Grade Exclusion**

You may petition to exclude from GPA calculation any grades earned at Boise State or at another institution in one or two semesters in which your GPA is less than 2.00. You must complete a *Request for Grade Exclusion* form and meet all the following criteria:

- You must not have been a student at any institution of higher education for at least five years, or at least eight years must have elapsed since you received the grades you wish to have excluded.
- After being readmitted and before applying for grade exclusion, you must complete 12 credits at Boise State with a GPA of 2.50 or higher, or 24 credits with a GPA of 2.25 or higher.
- You have not previously been granted grade exclusion at Boise State.

If you request grade exclusion, you must have all grades excluded in the semester or semesters chosen; you may not choose individual grades. (If you wish to exclude grades from two semesters, you must petition for both semesters at the same time on the same form). All grades, past and present, will remain on your transcript, but the excluded grades will not count toward graduation or be calculated in your GPA. However, all grades, including those that have been excluded, will be used to calculate graduation honors. You may

receive grade exclusion only once. If you possess a post-secondary degree or certificate, you may not have any grades earned prior to receiving that degree or certificate excluded from your GPA. Grade exclusion may affect your financial aid; contact the Financial Aid Office for details, <https://www.boisestate.edu/financialaid/>.

**Academic Standing/Probation and Dismissal**

To remain in good academic standing, you must maintain a minimum grade-point average (GPA) for the number of credits you have earned. Table 5.2 shows the minimum Boise State GPA (Boise State GPA only, transfer and test GPA not included) you must have in relation to the total cumulative credits earned (includes transfer, test, and Boise State credits) for determining probation or dismissal status.

| <i>Cumulative Credits Earned</i> | <i>Minimum Boise State Cumulative GPA</i> |
|----------------------------------|---|
| 0 to 25                          | 1.75                                      |
| 26 or more                       | 2.00                                      |

If you fail to maintain the minimum Boise State GPA shown in Table 5.2, you are placed on probation. At the end of your next semester at Boise State, the university reviews your record and takes one of the following actions:

- removes you from probation (if your cumulative Boise State GPA is at or above the minimum specified in Table 5.2),
- continues your probation (if your cumulative Boise State GPA is below the minimum specified in Table 5.2, but your semester GPA is 2.0 or higher), or
- dismisses you from the university (if your cumulative Boise State GPA is below the minimum specified in Table 5.2 and your semester GPA is below 2.0).

If you leave the university while on probation, you will remain on probation when you return—even if you have attended another institution in the meantime. While on probation, you may be ineligible to receive financial aid or to participate in extracurricular activities sponsored by the university. For more information on these restrictions, see Chapter 7—*Financial Aid* and the *Boise State University Student Handbook*, <https://www.boisestate.edu/deanofstudents/student-support/student-handbook-2/>.

If you are dismissed from the university, you are barred from enrolling for one semester (fall or spring) after the first dismissal and for one academic year after the second dismissal. If you wish to appeal this waiting period, you must file an appeal with the University Academic Appeals Committee. The *Academic Appeals Form* is at <https://www.boisestate.edu/registrar/student-forms/>. You will be permitted no more than two reinstatements. A third dismissal is final.



**Questions About Grades?**

If you have questions about grades, contact the Registrar’s Office, Administration Building, Room 110, (208) 426-4249.

# Chapter 6—Tuition and Fees

This chapter defines the current tuition and fees for attending Boise State University and provides other information about tuition and fees, including deadlines, payment plans, and the senior-citizen rate. Also included in this chapter are some of the more commonly asked questions about Idaho residency requirements.

## Deadlines for Paying Tuition, Fees, and Other Charges

You are expected to pay all tuition, fees, and other charges by the deadline specified in the current Academic Calendar. If you register after the deadline, you will be expected to pay all tuition, fees, and other charges when you register. You may pay with cash, check, or credit/debit card.

Access your student account on myBoiseState (<https://my.boisestate.edu/>) to find out deadlines for paying tuition, fees, and other charges. Boise State does not mail out paper statements. Log in to myBoiseState (<https://my.boisestate.edu/>), select Student Center, then select the Student Financials tile. Please contact Student Financial Services, Administration Building, Room 101 or call (208) 426-2134, for specific fee information. Other financial information is available on the Student Financials website at <https://www.boisestate.edu/vpfa-student-financial-services/>.

## Deferred Payment of Tuition, Fees, and Other Charges

If you are unable to pay tuition and fees before the deadline established in the current Academic Calendar, you may be able to pay your fees in three equal installments. To do so, you must be registered for two or more billable credits, and must not have delinquent or past-due accounts with the university.

To enroll in the fee payment plan, complete the request on myBoiseState (<https://my.boisestate.edu/>). Select Student Center, then select the Student Financials tile, select Enroll in Payment Plan, follow the prompts. At the time of the submission, your fees will be split into three equal installments. The installments will be due on or before August 25, September 25, and October 25 for the fall semester and on or before January 25, February 25, and March 25 for the spring semester. A \$30 nonrefundable administrative fee will be charged to use the plan. For more information concerning the fee payment plan, visit Student Financial Services, Administration Building, Room 101, or call (208) 426-2134.

The fee payment plan must be submitted before the fee payment deadline to avoid the \$50 penalty. In the event that you withdraw from school or are administratively withdrawn after the refund period, any balance owing on the installment plan will be immediately due and payable.

Note: Delinquent balances will be assessed a late charge of 1.75% per month or \$10.00, whichever is greater, and you will forfeit any opportunity to defer payment in the future.

If financial aid arrives before your fee payment plan is repaid, the financial aid will be applied to the amount owed. This application of financial aid takes precedence over any other method of repayment. If you defer payment and then withdraw from the university, Boise State will deduct the amount owed on your account from any refund you may be eligible to receive. You will also be charged a \$40.00 complete withdrawal fee.

If your tuition, fees or other charges remain unpaid, you may be sent to an outside collection agency and will be responsible for any additional collections fees.

## How Boise State Calculates Your Tuition and Fees

Your actual cost to attend Boise State depends on how many classes you take, the type of classes you take, and your status as a resident or nonresident student. In addition to these fees, you may also have to pay such additional charges as workshop fees or materials charges, depending on the type of classes you take.

When you apply for admission to Boise State, you pay a one-time, nonrefundable fee (\$50.00) for processing your application. All degree-seeking

and readmitted students are also required to pay a New Student Curriculum Fee (\$175.00). To calculate your other tuition and other fees, Boise State uses a milestone of eleven credits per semester. Once you register for 11 or more credits, you are required to pay the full tuition and fees shown in Table 6.1, below. See Student Financials website for the most current tuition and fee information at <https://www.boisestate.edu/vpfa-student-financial-services/>.

| <i>Tuition and Fees</i>      | <i>Resident</i>       | <i>Nonresident</i>    |
|------------------------------|-----------------------|-----------------------|
| Tuition                      | \$2,766.18            | \$11,226.18           |
| Institutional Fees           | \$1,267.82            | \$1,267.82            |
| Total (for up to 16 credits) | \$4,034.00            | \$12,494.00           |
| Overload Fee*                | \$252 per credit hour | \$252 per credit hour |

\*An overload fee is imposed if you register for 17 or more credits.

In determining whether you have reached the milestone of 11 credits per semester, Boise State counts all credit hours on your registration form, including credit hours under audit status, credit hours for courses you are repeating, and credit hours for workshops. In short, nearly every combination of any type of credit hour counts toward that 11-credit milestone. Please note, also, that developmental courses (such as THEA 10 Theatre Symposium) count as 1 credit each toward the 11-credit milestone, even though you earn no credits by taking the course, see Table 6.2.

**Note: Tuition, fees, and other charges are subject to change at any time by the Idaho State Board of Education, acting as the Board of Trustees for Boise State.**

## Noncredit Bearing Courses

The following is a list of noncredit bearing courses with the amount of credit each is equivalent to for fee purposes:

| Course    | Credits | Course    | Credits | Course     | Credits |
|-----------|---------|-----------|---------|------------|---------|
| IEPATH 31 | 3       | IEPATH 41 | 3       | IEPATH 47  | 4       |
| IEPATH 32 | 4       | IEPATH 42 | 4       | MUS-APL 10 | 1       |
| IEPATH 33 | 4       | IEPATH 43 | 4       | THEA 10    | 1       |
| IEPATH 36 | 3       | IEPATH 44 | 1       |            |         |
| IEPATH 37 | 4       | IEPATH 46 | 3       |            |         |

## Other Fees and Charges

If you enroll for fewer than eleven credits, your fees are calculated by the credit hour, as shown in Table 6.3, below.

| <i>Semester or Session</i> | <i>Resident Per Credit</i> | <i>Nonresident Per Credit</i> |
|----------------------------|----------------------------|-------------------------------|
| Fall 2019 and Spring 2020  | \$367.00                   | \$724.00*                     |
| Summer 2019                | \$355.00                   | \$390.00                      |

\*Includes \$339.00 nonresident per credit tuition fee.

Note: Fees are calculated based on the courses you are registering for. If you enroll in private music lessons, you pay a music fee according to the schedule shown in Table 6.4.

Table 6.4  
Fees for Private Music Lessons

| 1 Credit | 2 Credits | 4 Credits |
|----------|-----------|-----------|
| \$200    | \$400     | \$400     |

### Idaho Senior Citizen’s Fee Reduction

If you are an Idaho resident and are at least 65 years old, you are eligible to audit courses, on a space available basis, at no per credit charge. You will be responsible for any related special course fees (e.g., lab, online, private music, workshop). See *Chapter 4 Registration Policies and Procedures*, Credit/Audit Status for information on auditing courses. Not all programs are eligible for this rate. If you choose to register on a graded basis and earn academic credit, this rate does not apply and you will be assessed regular tuition and fees. For more information, contact Student Financial Services. All payment deadlines apply.

### Refund Policy

In general, if you completely withdraw from Boise State on or before the tenth day of the semester for regular session classes, you are eligible to receive a full refund of the money you paid to register (less a nonrefundable \$40.00 complete withdrawal fee). If you withdraw after the tenth day of classroom instruction, you receive no refund. See the Academic Calendar in this catalog for deadlines of the other sessions. No refunds for private music lessons can be granted after the first five days of classroom instruction.

Note: In determining whether you have met the deadline and are therefore eligible for a refund, Boise State considers only the date on which you officially withdraw—not the date on which you stopped attending class. Please note, also, that registering late has no effect on refund deadlines; Boise State cannot extend the deadlines to take into account a late registration. In summary, you must completely withdraw from the university no later than the tenth day of classroom instruction for regular session classes. See the *Academic Calendar Deadlines by Session* table in this catalog for deadlines of the other sessions.

This general refund policy applies to full-time and part-time students regularly enrolled at the time of the withdrawal. However, the policy may not necessarily govern refunds for short courses, workshops, and continuing education classes. Because refund policies for such classes may vary, you should direct any request for a refund to the academic unit or organization offering the class.

In some circumstances, you may be expecting a full refund of tuition and fees, yet receive less than the amount you have paid to Boise State. If you owe money to the university, it will be deducted from the refund before it is issued. Similarly, Boise State will take a deduction from the refund check if you used financial aid to pay all or part of room-and-board costs, tuition, or registration charges. In such cases, Boise State reimburses the government agency or other organization that furnished the financial aid. Any balance that remains is forwarded to you, usually three to four weeks after you withdraw from the university.

Information on fee appeals may be obtained in Student Financial Services, Administration Building, Room 101, (208) 426-2134.

### Idaho Residence for Tuition Purposes

#### Initial Determination of Residency Status

When you apply to Boise State, Admissions determines your status as a resident or nonresident for tuition purposes. After you have been admitted, if you have questions about your residency status, please contact the Registrar’s Office at (208) 426-4249.

#### Procedures to Have Your Residency Status Reviewed

Your legal residence for fee purposes is determined at the time of initial application for admission to Boise State and remains unchanged in the absence of satisfactory written evidence to the contrary. The burden of proof in requesting reclassification to resident status rests with you in providing clear and convincing evidence of residency for tuition purposes as defined by the law. If you are applying to change a nonresident classification from the point of

application or are requesting consideration for reclassification based upon satisfying state law, criteria must follow the procedure outlined below:

1. Contact the Residency Coordinator in the Registrar’s Office, Room 110, Administration Building.
2. Complete the *Idaho Residency Determination Worksheet* and return it to the Residency Coordinator with supporting documentation. A form requesting reclassification to resident status may be filed after qualifying criteria have been satisfied, but no later than 10 school days after the opening of the semester for which the change in status is requested.
3. The Residency Coordinator will determine if you meet the criteria for residency and will notify you in writing of the decision.
4. You may appeal the decision of the Residency Coordinator in writing to the Residency Appeals Committee. To file an appeal the applicant must specify in writing why you believe you have met the criteria and on what basis you should be given residency. The appeal should be turned in to the Residency Coordinator. You will be notified in writing of the decision of the Residency Appeals Committee.
5. If you contest the determination of the Residency Appeals Committee that you are not a qualified resident, you may petition the State Board of Education for review. The petition must be submitted to the President of Boise State University in writing and must set forth your reasons for contesting the decision. The President will submit the petition to the Executive Director of the Office of the state Board of Education who will determine whether the Board or the Board’s designated representatives will hear the appeal. If the Board decides to hear the appeal, it will set forth the scope of review and notify you of the time, date, and place of the hearing. The decision of the Board is final and binding on all parties concerned. You must agree to the release of information to the review body and must comply with deadlines established by the institution for requesting an appeal.

### Relevant Law and Regulations

The statutory and regulatory provisions relevant to residency determinations may be found at:

- Idaho Code Section 33-3717B (institutions other than community colleges)
- Idaho Code Section 33-2110A (community colleges) IDAPA 08.01.04.

As an enrolled Boise State student, you may prove classification as an Idaho resident for tuition purposes by meeting the criteria for one of the following options.

1. **Dependent Student:** You have one or more parent(s)/legal guardian(s) who is domiciled in Idaho and provides at least 50% of your financial support. The parent/legal guardian must have maintained a bona fide domicile in Idaho for at least 12 months prior to the term in which you are applying for residency.
2. **Independent Student:** You receive less than 50% financial support from a parent/guardian and have continuously resided in, and maintained a bona fide domicile, in Idaho for purposes other than education for at least 12 months prior to the term in which you are applying for residency.
3. **Graduate of an Idaho High School:** You are a graduate from an accredited Idaho high school, are domiciled in Idaho, and have an enrolled in an institution within 8 years immediately following secondary school graduation regardless of the domicile of your parent or guardian (except if a non-US citizen (see, definition of nonresident below)).
4. **Completed 6 Years of Elementary and Secondary Education in Idaho:** You have completed 6 years of elementary and secondary education in Idaho, are domiciled in Idaho, and have matriculated at an institution within 8 years following completion of secondary education.
5. **Married to an Idaho Resident:** You are married to a person who is classified, or eligible for classification, as an Idaho resident for the purpose of attending an institution, except that if you were enrolled full-time in any term during the 12-month period before the term in which

- you are proposing to enroll as a resident, then you must independently establish domicile.
6. Armed Forces: You, your spouse, or—if you are a dependent student—your parent/guardian meets one of the following criteria:
    - a. Member of the Armed Forces who entered service as an Idaho resident, has maintained Idaho resident status, but is stationed outside of Idaho on military orders
    - b. Member of the Armed Forces stationed in Idaho on military orders.
    - c. Officer or enlisted member of the Idaho National Guard
    - d. Member who has been separated, under honorable conditions, from the Armed Forces after at least 2 years of service
      - i. Who at the time of separation designated Idaho as the intended domicile, and within 1 year of the date of separation enters an Institution; or
      - ii. Who listed Idaho as the home of record in service, and within 1 year of the date of separation enters an Institution; or
      - iii. Who moves to Idaho for the purpose of establishing domicile; provided however, to maintain status as a resident student, such person must actively establish domicile in Idaho within 1 year of registration at an Institution.
  7. You are a member of the following Idaho Native American Indian Tribes: Members of the following Idaho Native American Indian Tribes whose traditional and customary tribal boundaries included portions of the state of Idaho, or whose Indian tribe was granted reserved lands within the state of Idaho:
    - Coeur d'Alene
    - Eastern Shoshone
    - Kootenai
    - Nez Perce
    - Shoshone-Bannock
    - Shoshone-Paiute
  8. You are a student who has earned a baccalaureate degree from a public institution (or institution pursuant of Idaho Code 33-2402) of higher education and physically resided in Idaho for the final 12 months of undergraduate studies and enrolled in a graduate program no later than 36 months after receiving a baccalaureate degree from the undergraduate institution.

### Becoming an Idaho Resident

A domicile is your true, fixed and permanent home, and place of habitation; it is the place where you intend to remain and expects to return to when leaving without establishing a new domicile elsewhere. If you are a dependent student, residency is based on the domicile of your parent or legal guardian. If you are an independent student, residency is based on your domicile or your spouse's.

Domicile may be proved by:

1. If you were attending school full-time, the filing of Idaho state income tax return covering a period of at least 12 months before the term in which the student proposes to enroll as a resident student and permanent full-time employment (30 hours per week, or 120 hours per month) or the hourly equivalent in Idaho for a period of at least 12 months before the term in which the student proposes to enroll as a resident student.
2. If you weren't attending school full-time in the prior year, proving at least five of the following type of criteria for 12 months before the term for which residency is sought:
  - a. Ownership or leasing of a residence in Idaho;
  - b. Registration and payment of Idaho taxes or fees, other than sales or income tax;
  - c. Registration to vote in Idaho;
  - d. Holding an Idaho driver's license or ID card;
  - e. Evidence of abandonment of a previous domicile;
  - f. Establishment of accounts with Idaho financial institutions;
  - g. Other similar factors such as:
    - i. Enrollment of dependent children in Idaho elementary or secondary schools
    - ii. Acceptance of permanent employment in Idaho
    - iii. Documentation of need to care for relative in Idaho
    - iv. Utility statements
    - v. Employment documentation

### Important Definitions

**Nonresident** student means you meet one of the following:

1. Do not qualify for residency under the above options; or
2. Attend an institution with financial assistance from another country or governmental unit or agency thereof, such non-residency continuing for 1 year after completion of the term for which such assistance is last provided; or
3. Are not a citizen of the United States, unless you can provide verification of lawful presence in the United States. "Lawful presence" is verified through the means set forth in Idaho Code, 67-7903. As a non-citizen who can provide verification of lawful presence in the United States, you must meet one of the seven pathways to establish residency set forth above.

**Continuously Resided** means you have maintained a physical presence in Idaho for 12 consecutive months. As an independent student you must have continuously resided in Idaho for the 12 months prior to the term for which residency is sought. Evidence of physical presence in Idaho might include: utility statements, rental agreement, bank statements, documentation from an Idaho employer, etc.

**Primarily Educational Purposes** means enrollment in 12 or more credit hours in any term during the past 12 months.

**Armed Forces** means the United States Army, Navy, Air Force, Marine Corps, Coast Guard, and the reserve forces of those groups and does not include the National Guard or any other reserve force.

### Idaho Residency Laws

The residency laws can be found at <https://legislature.idaho.gov/statutesrules/idstat/>.



### Questions About Tuition and Fees?

If you have questions about tuition and fees, contact the Account Maintenance Center, Administration Building, Room 101, (208) 426-2134.

### Questions About Student Loans?

If you have questions about existing Perkins or short-term emergency loans, contact the Account Maintenance Center, Administration Building, Room 101, (208) 426-2134.

### Questions About Other Financial Aid?

If you have questions about financial aid, contact the Financial Aid Office, Administration Building, Room 117, (208) 426-1664.

### Questions About Residency Status?

If you have questions about residency status, contact the Registrar's Office, Administration Building, Room 110, (208) 426-4249.

# Chapter 7—Financial Aid and Scholarships

The Financial Aid Office provides information, guidance, education, and support for you and your family while applying for federal aid and seeking other sources of financial assistance in pursuing a higher education. It is expected that you, and your family, will first contribute to the cost of education through your own resources. Need-based aid, such as grants, loans, and part-time employment are available to help fill the gap between your financial resources and educational expenses. Scholarships are available to you if you have demonstrated academic merit or skill in a particular area of interest or discipline of study.

The information contained in this publication reflects current procedures and rules affecting the delivery of financial aid. Boise State University reserves the right to change, at any time, schedules, rules, and regulations. Appropriate notice of such changes is given, whenever possible, before they become effective. More information is available at: <https://www.boisestate.edu/financialaid/>. General information is also available through the U.S. Department of Education's publication, *Funding Your Education: The Guide to Federal Student Aid*. Copies can be obtained at the Financial Aid Office or at: <https://studentaid.ed.gov/sa/>.

The following sections describe the eligibility requirements for receiving federal aid, the types of financial aid available at Boise State, procedures for distributing aid, and procedures for applying for financial aid. The rights and responsibilities of students who receive financial aid are included within the following information.

## Eligibility Requirements

The following is a summary of the most common criteria affecting student eligibility for financial aid. Eligibility requirements are explained in more detail at: <https://www.boisestate.edu/financialaid/>.

- Complete the application process after October 1 prior to each aid year for which you desire to be considered for financial aid (see details under “How to Apply for Financial Aid”).
- Be admitted to Boise State and be matriculated into a degree-seeking program or a certificate program approved for financial aid.
- Register for classes by the tenth day of the semester.
- Maintain Satisfactory Academic Progress Standards (see details on page 38).
- Have a high school diploma or GED. In most cases, students who have been homeschooled and have been admitted to Boise State into an approved degree or certificate program are also eligible.
- Be a U.S. citizen, permanent resident, or eligible noncitizen. Students attending Boise State on a student visa are ineligible for federal aid, may apply for scholarships.
- Register with Selective Service, if you are male.
- Do not owe a repayment of any federal aid to Boise State, to any other school previously attended, or to the U.S. Department of Education.
- Do not be in default on a federal student loan or owe a repayment of grant funds.
- Submit all verification materials requested by the Financial Aid Office as soon as possible, but no later than the specified deadlines. Examples of requested materials include citizenship documents, proof of untaxed income, or proof of high school graduation. You may also be asked to complete the IRS data retrieval process.
- Must meet all other eligibility requirements. Please contact the Financial Aid Office if you have any questions.

## Sources of Financial Aid

### Pell

The foundation for financial aid is the Federal Pell Grant, a federal grant available to undergraduate students with documented financial need. Pell Grants range from \$639 to \$6,345 for eligible full-time students. Pell Grants are also available to most pell-eligible part-time students. Some Pell recipients also qualify for the Federal Supplemental Educational Opportunity Grant (SEOG). If you meet the priority filing deadlines, you will be among the first to be considered for the SEOG grant (see “How to Apply for Financial Aid” on page 37).

### William D. Ford Federal Direct Loans

Long-term loans are available to undergraduate and graduate students who are enrolled at least half-time. There are two types of Direct Loans: subsidized and unsubsidized. Borrowers of unsubsidized loans are responsible for the interest while attending school. Based on federal regulations the Financial Aid Office will determine which loan you will receive. First time recipients of a Direct Loan must complete an online loan entrance counseling session before Boise State releases loan funds. In addition, you must complete an exit loan counseling session when you graduate or withdraw from the university. Borrowers have an opportunity to complete an online financial literacy course at: <https://www.boisestate.edu/financialaid/home/borrowing-and-budgeting/>.

All Direct Loan recipients must also complete an online Master Promissory Note, which will be valid for borrowing during subsequent semesters. Repayment of a Direct Loan begins six months after you graduate or six months after your enrollment drops below half-time. Several different repayment plans exist for students to consider. Students are encouraged to discuss repayment plans with their loan servicer. Please see the exit counseling information link on the following website for more information: <https://www.boisestate.edu/financialaid/>. The interest rate is set annually in June for the upcoming award year.

### Work Study

The Federal Work-Study Program provides employment opportunities for selected undergraduate and graduate students with demonstrated financial need. The Atwell J. Parry Idaho Work-Study Program also provides employment opportunities for students; only Idaho residents are eligible to participate in the program. Additional requirements and more detail regarding work-study is available at: <https://www.boisestate.edu/financialaid/home/types-of-aid/>.

## Scholarships

Many students finance part of their education with scholarships, which may be awarded for academic achievement, special skills or talent, or because of the recipient's financial need. Scholarship deadlines vary; for the most current information, please review the different scholarship programs at: <https://www.boisestate.edu/scholarships/>. All new freshmen and incoming transfer students who have completed the admission application by the deadline and who have at least a 3.0 GPA will be automatically considered for some merit scholarships.

### Applying for Scholarships

Many scholarship decisions are based on information contained in your admissions application, or if you are a continuing student, your academic record. However, some scholarships require a separate application. A complete listing of scholarship information is available at <https://www.boisestate.edu/scholarships/>. Need-based scholarships require you to submit the FAFSA by the deadlines indicated below. All new and continuing students are encouraged to review the list of scholarship opportunities at: <https://www.boisestate.edu/scholarships/>.

### Idaho Resident Scholarships

Boise State University offers merit- and need-based scholarships for new incoming and transfer Idaho resident students. The Presidential, Dean's, and True Blue Promise scholarships are automatically awarded to eligible Idaho students accepted as degree-seeking. For current eligibility criteria and deadlines, go to: <https://www.boisestate.edu/scholarships/>.

### Nonresident Scholarships

Boise State offers merit-based scholarships for nonresident students. Gem, WUE (Western Undergraduate Exchange); and Treasure nonresident scholarships are automatically awarded to admitted nonresident degree-seeking students. For current eligibility criteria and deadlines, go to: <https://www.boisestate.edu/scholarships/>.

## State of Idaho Scholarship Awards

Scholarships are available to you if you are an Idaho resident. Deadlines vary. Apply at: <https://boardofed.idaho.gov/scholarships/>.

## How to Apply for Financial Aid

1. **Complete the Free Application for Federal Student Aid (FAFSA).** You must submit the FAFSA each year to be determined eligible for most grant, loan, work-study, or need-based financial aid and scholarship programs. You may use one of the following methods to apply:
  - Apply using FAFSA on the web (<https://fafsa.gov/>). If you have applied for aid in prior award years, use your FSA ID to log in. If this is your first time completing the FAFSA, you will set up an FSA ID as part of the FAFSA application process. If you are a dependent student and need to provide parental information, your parent can also set up an FSA ID during the application process. Only one parent is required to sign the FAFSA.
  - Apply using renewal FAFSA on the web (also at: <https://fafsa.gov/>). If you applied for aid the previous year, the renewal application is simply a FAFSA that contains most of the information you provided last year. Updating the information may be faster for you than filling out a new FAFSA.
  - Apply using the myStudentAid app which can be downloaded for iOS or Android.

Tips on Completing the FAFSA are available at: <https://studentaid.ed.gov/sa/fafsa/filling-out>

- Boise State University Title IV Code is 001616.
  - Boise State University Financial Aid address: 1910 University Dr., Boise, ID, 83725-1315.
2. **Complete actions identified on myBoiseState**
    - Loan entrance counseling and Master Promissory Note online activities will be identified as To Do items if you need to complete them.
    - Award acceptance. Once processing of your application is complete, your award information will appear on your myBoiseState (<https://my.boisestate.edu/>) student account. You may accept, reduce, or decline your awards on myBoiseState.
  3. **Be aware of the following priority dates:**

**February 15: incoming** freshmen and transfer students are advised to submit application materials, the FAFSA, and the online scholarship application to be considered for many scholarships, work-study and certain grant programs with limited funding. If you meet this deadline, you are given priority status for federal aid programs, such as work-study and certain grant programs with limited funding. Note: The scholarship application deadline of February 15 is a hard deadline.

**February 15:** Deadline for continuing students to submit the FAFSA and the online scholarship application to be considered for many scholarships. If you meet this deadline, you are given priority status for federal aid programs, such as work-study and certain grant programs with limited funding.

**June 1:** Recommended final date to submit FAFSA application and all documents and other information requested by the Financial Aid Office to ensure that your financial aid will be available for the first disbursement of fall semester. Submitting documents after the June 1<sup>st</sup> deadline may result in financial aid being unavailable at the time fall tuition is due.

If you miss these deadlines, you may still apply for federal aid. However, processing of FAFSA applications received after the deadlines may not be completed in time for aid availability by fee payment deadline or when classes begin.

## 4. Applying for Summer Aid

Most financial aid is awarded for use during the fall and/or spring semester(s). However, beginning summer 2018, Pell Grant eligible students can receive up to 150% of their scheduled Pell award each year. If a student received a Pell grant in fall and/or spring, they may qualify for a Pell Grant in the summer.

To be eligible, students must:

- In most cases, enroll in a minimum of 6 credits in summer prior to the summer census date.
- Have a completed current FAFSA.
- Be Pell Grant eligible.
- Be meeting Satisfactory Academic progress (SAP).
- Have lifetime Pell grant eligibility remaining at the end of the spring term.

See <https://www.boisestate.edu/financialaid/> for details on applying for summer aid, deadlines, etc. For summer 2021 aid consideration, make sure that you have completed the 2020-2021 FAFSA.

## 5. Staying Informed

Most official correspondence will be sent to your student email account. Remember to check your BroncoMail at least weekly to determine if additional information is needed. To easily find financial aid updates or click on the Financial Aid Recipients link on your myBoiseState (<https://my.boisestate.edu/>) account. Information is updated regularly on policy changes or other important information that might affect your financial aid. You can like the Boise State Financial Aid Facebook page to receive updates.

## How Financial Aid is Distributed

The Financial Aid Office begins awarding aid for the following academic year beginning in December for new students and March for transfer and continuing students. You should check your myBoiseState (<https://my.boisestate.edu/>) account regularly for financial aid information and updates.

Financial aid is first applied to your outstanding registration fees for the current semester, then any current university housing charges. Any remaining financial aid is then refunded to you. (If you have a past due balance for fall and expect a refund for spring, your refund will first be applied to allowable educational costs from fall. The same is true if you have a past due balance from spring and expect a refund for summer.) If you have signed up for direct deposit, the refund will be electronically deposited to your bank account about one week before your classes begin; otherwise a check will be mailed to your mailing address as shown on your myBoiseState (<https://my.boisestate.edu/>) account. Electronic deposit or mailing of refunds continues throughout the semester, if your financial aid should disburse after the term begins.

## Enrollment

### Establishing Eligibility

Your financial aid is based not only upon the credits in which you enroll, but also the courses you actually attend. It is expected that you at least initiate attendance for all classes in which you are enrolled past the add/drop period, even if you later withdraw from that class. If you remain enrolled in a class that you never attended, your aid eligibility will be recalculated for the term, and you will be required to repay any funding for which you are not eligible. Only faculty can confirm whether a student initiated attendance in a course, which may require a record of an assignment submitted or the completion of a test or quiz.

Any change in your enrollment status may affect your ability to maintain satisfactory academic progress (see "Satisfactory Academic Progress" below) and it may also affect aid previously disbursed.

### Partial Withdrawals

Adjustments may be made to your financial aid eligibility if enrollment changes after disbursement of aid has occurred. You may be required to repay a portion of the aid disbursed to you or to your account.

## FINANCIAL AID

### Complete Withdrawals

In general, students receive no refund of fees if they withdraw from the university after the tenth day of classroom instruction. Federal financial aid regulations state that eligibility for aid be recalculated whenever a student withdraws from Boise State, either officially or unofficially. The recalculation determines the amount of aid a student has “earned,” by prorating according to the percent of the term completed before withdrawing. For example, a student who withdraws after completing only 30 percent of the term will have “earned” only 30 percent of original aid eligibility. A student who completes more than 60 percent of the term is considered to have “earned” 100 percent of his/her aid eligibility.

Once a student officially withdraws, the Financial Aid Office will determine what, if anything, is owed and will provide notification of adjustments to financial aid funding. For more information, including examples of calculations, go to: <https://www.boisestate.edu/financialaid/> and review the Complete Withdrawal Policy. If you have questions after reviewing that information, please contact the Financial Aid Office.

### Unofficial Withdrawals

Students who receive failing grades for all graded courses within a semester are, for financial aid purposes, considered to have unofficially withdrawn from that semester. Students who unofficially withdraw without attending classes may be required to repay all aid disbursed for the semester. Students who attend only a portion of the semester will have their aid eligibility recalculated according to the description under the “complete withdrawals” section above. Please note that if you are determined not to be eligible for all, or a portion of, the aid previously disbursed to your account, you may have a registration hold placed on your record until the balance of aid is repaid.

### Satisfactory Academic Progress Standards

Before you receive federal and state financial aid, federal regulations require that you have met and continue to meet some basic academic progress standards. These standards include maintaining a minimum GPA, a limit on the number of credits that may be attempted toward completion of a degree, and that you are on pace to earn a degree within that credit limit. For a complete description of satisfactory standards, please refer to: <https://www.boisestate.edu/financialaid/home/impacts-on-aid/sap/>.

### Satisfactory Academic Progress Review

The university reviews your satisfactory academic progress following the end of each semester. If you fall below any of the minimum standards (as defined in the policy), you will be placed on a financial aid warning for a semester. If, at the end of that semester you are still not meeting satisfactory academic progress standards, you will be ineligible for financial aid until you are once again making satisfactory academic progress.

### Appeals

If there were extenuating circumstances impacting your ability to meet the Satisfactory Academic Progress standards, you have the right to file a written appeal for temporary exemption from this policy. Examples of extenuating circumstances include the death of an immediate family member, illness or injury to the student, or similar circumstances. In filing an appeal, you must document any extenuating circumstances that prevented you from making satisfactory academic progress. You must also address how that circumstance has been addressed and will no longer impact your academic progress. Appeal forms may be downloaded at: <https://www.boisestate.edu/financialaid/home/impacts-on-aid/sap/>.

### Study Abroad

Federal financial aid is available to qualified students who wish to participate in a study abroad program approved for credit by Boise State. You must complete the FAFSA and meet all eligibility requirements pertaining to the federal aid programs.

### International Students

If you are an international student and encounter financial difficulties, contact International Student Services, Simplot Micron Advising and Success Hub, Room 227, (208) 426-3652. If you are in the United States with a visa or who plan to attend Boise State with the F-1 student visa, you are ineligible for all federal financial aid programs. You may apply for any scholarships that are not federally funded or do not require U.S. citizenship. Scholarship information is available at: <https://www.boisestate.edu/scholarships/>. A limited number of nonresident tuition waivers are available. Continuing students should contact International Student Services for information about these waivers; new international students should contact the International Student Admissions, (208) 426-4367.

### Privacy Notice

The Financial Aid Office will release no information to your parents, your spouse, or any other individual without first obtaining your written permission. If you wish to give your permission to release this information, you may obtain a release form from the Registrar's Office or online at <https://www.boisestate.edu/registrar/home/student-forms/>. For more information about the university's privacy policy, see Chapter 2—*General Policies and Procedures*.



### Questions About Financial Aid?

If you have questions about financial aid, contact the Financial Aid Office, Administration Building, Room 113, (208) 426-1664 or (800) 824-7017, or by email: [financialaid@boisestate.edu](mailto:financialaid@boisestate.edu).



# Chapter 8—On-Campus Student Housing

The department of Housing and Residence Life provides on-campus housing options for Boise State University students in several unique residential communities, all located within walking distance from campus. You can request residence hall, suite-style, and townhouse living options, all with individually licensed bed spaces for the full academic year. Housing is also available in one of four apartment complexes designed for upper-division, graduate, and family housing leased from the move-in date to May 31.

Housing and Residence Life professional and student paraprofessional staff members create an inclusive, safe, learning-centered, and caring community environment where residents develop meaningful and lasting relationships with each other and engage in campus life. To support learning and student success, full-time faculty in residence live in several communities and there are bountiful leadership and employment opportunities—all woven into the on-campus living experience.

Within this chapter, the following will be addressed:

- Boise State Fair Housing Policy
- Residence hall, suite, and townhouse options
- Living-learning programs
- Apartment options
- Eligibility for on-campus housing
- How to apply for housing

Prospective and current students, as well as their families, are encouraged to visit Housing and Residence Life online at <https://www.boisestate.edu/housing/>, emailing [housing@boisestate.edu](mailto:housing@boisestate.edu), or by calling (208) 447-1001 for more information.

## Fair-Housing Policy

Boise State is an equal-opportunity institution, offering its living accommodations and making housing assignments without regard to race, color, national origin, or handicap (as provided for in Title VI and Title IX and Sections 503 and 504 of the Rehabilitation Act of 1973).

## Residence Hall, Suite, and Townhouse Options

Altogether, these residential communities accommodate approximately 3,000 students in nine coed complexes—all fully furnished and with utilities included. Amenities include air-conditioning, laundry facilities in each community, cable television jacks in common rooms, Ethernet connection ports in individual rooms, and wireless Internet access throughout every complex. All traditionally aged, first-year students are required to have a weekly meal plan, regardless of where they live. A description of each residential community is provided here:

**Chaffee Hall** is available to first-year students and is divided into three three-story wings with enclosed corridors connecting rooms and hallways to a common area. In the A and B Wings, two students occupy each double room (single rooms are limited) and each floor has common bathrooms, a small informal lounge, study room, and card operated laundry facilities. The D wing has double rooms (two residents each) with semi-private bathrooms connecting two double rooms. Chaffee Hall also hosts the POD, a convenience store with extended hours for residential students that has a coffee shop, small grill, and convenience store food options.

**Clearwater, Payette, and Selway Suites** are available to students of all academic levels seeking a more independent living option. This complex features four single bedroom suites, each of which include a living room, shared bathrooms, modern kitchen, dishwasher, and washer/dryer. Residents in all three buildings have access to the community center lounge located in Clearwater Suites.

**Honors College** and **Sawtooth Hall** is the newest and largest residence hall located in the middle of campus where first-year students and students of all credit levels admitted to the Honors College live in two and four-person suites. All residents share a private bathroom with one other person, with the exception of students living in double rooms where there are four students to a bathroom. Sophomore and above students are eligible to live in full suites that

contain kitchens and living rooms, with preference given to students admitted to the Honors College.

**Keiser Hall** and **Taylor Hall** provide four-to-eight person suite-style living to first-year students in suites containing single and double rooms (double rooms are limited). Both residence halls feature centrally-located, card-operated laundry facilities and community lounges. Keiser Hall has three classrooms and multiple lounges that are available to all residence hall students.

**Morrison Hall** and **Driscoll Hall** are available to first-year students and are nearly identical in design, containing single and double rooms arranged into suites of seven to eight students who share a community bathroom. Both halls are equipped with study lounges and a community kitchen.

**University Square** has four buildings surrounding a courtyard and is available to first-year students seeking a more independent living option. Each building features two-bedroom suites: one single room and one super single room (one person living in a double-sized room) per suite; central air conditioning/heating, full kitchen (stove, refrigerator, and dishwasher), and a washer/dryer.

**Aspen, Cedar, Hawthorne, Juniper, Spruce, and Tamarack Townhouses** (the Lincoln Townhomes) are available to sophomore and above students seeking a more independent living option. Each unit features four single rooms, fully furnished living rooms, private and semi-private bathrooms, modern kitchens including energy-efficient appliances, and a washer/dryer. Several units within the townhouses are designated for residents seeking a 21+ living experience.

## Living-Learning Programs

The Living Learning Program (LLP) provide Boise State students a unique opportunity to live and learn with students who share similar academic interests and majors. This helps students be successful by helping them do well in class and making friends. LLP students do better academically, are more likely to return for a second year, and their four-year graduation rates are higher than other populations at Boise State. You can choose one of seven individual LLCs to fit you best.

In an LLC, students live with other students (and even a professor) who are in their college and take some of the same classes—built in study groups and increased academic success; and to support the necessary level of interaction, learning, and engagement of these communities, LLP students are responsible for an additional fee per semester that supports highly intentional programming directly connected to the goals of that community. Spaces are limited so prospective students are encouraged to apply online at <https://www.boisestate.edu/housing/> as soon as possible.

## Apartment Options

Housing and Residence Life oversees approximately 200 apartments in four apartment communities, all of which are conveniently located within walking distance of campus. These communities are designed for students over age 20, families, and graduate students. Each complex has air conditioning/heating systems, on-site parking permits (purchased through Parking and Transportation Services), and playgrounds. While meal plans are not required for students living in these areas, they are highly recommended for all residents and their dependents. Adding to the convenience of living in these communities is a bundled assessment of total utility usage for both gas and power, which will be assessed to the apartment residents' student accounts every month:

**University Heights** and **University Manor** consist of one- and two-bedroom apartments.

**University Park** consists of two- and three-bedroom apartments.

**University Village** consists of two-bedroom apartments.

All of our apartments provide a full kitchen (stove and refrigerator) and access to a common laundry facility. Water, sewer, trash, basic cable TV, and internet are included in the monthly rent.

### Eligibility for On-Campus Housing

Boise State residence halls, suites, townhouses, and apartments are reserved for undergraduate students enrolled in 12 credits or more and graduate students enrolled in 6 credits or more, every semester living in housing. In addition, students interested in living in the apartments must meet one of the following requirements: be at least 20 years of age, have sophomore status or above, have lived in Boise State residence halls, suites, or townhouses for at least two consecutive semesters, or be a head of household with a dependent(s).

### How to Apply for Housing

To apply online for housing, please go to <https://www.boisestate.edu/housing/> and click the Apply for Housing link. Note that, in order to apply for housing, you must have completed the university's Intent to Enroll process ([ite.boisestate.edu](http://ite.boisestate.edu)). In the housing application, you will be directed to pay a \$50 non-refundable application fee. In addition:

- Prospective residence hall, suite, and townhouse residents will be directed to pay a \$100 down payment at the time of application, which will be applied to your rent. Before an application can be processed and you are assigned, the application fee and down payment must be paid.
- Prospective apartment residents will receive an apartment offer and once that offer has been accepted, you will need to pay a \$250 non-refundable reservation fee that will be converted to a security deposit at the time of lease signing.

Note: The application process to live with Housing and Residence Life is a separate process from the one to apply for admission to the university. If you apply for housing, it does not constitute acceptance or approval for admission to the university. Conversely, being accepted for admission to the university does not signify that your application for housing has been accepted and approved.

### Housing Preferences

When you apply for housing, you will be able to choose your room and community preferences. We do not guarantee your requests and make assignments based on application date and time. You can log back into your MyHousing portal and edit your preferences without interrupting your original application timestamp. For first-year students, community assignments will be given the first week of April. Roommate selection will begin in May using a roommate matching software program. More information will be emailed to students via their Boise State email accounts regarding each of the steps in the process, following the submission of a housing application. Sophomore and above students self-select their rooms at a time determined by their application timestamp.

### Cost Information

Current housing rates, along with meal plan options are available by checking <https://www.boisestate.edu/housing/>, emailing [housing@boisestate.edu](mailto:housing@boisestate.edu), or calling Housing and Residence Life at (208) 447-1001. The following information is important for all prospective residents to be aware of when submitting a housing application:

- Residence hall, suite, townhome, and apartment contracts cover housing for the full academic year (generally from August to May).\*
- Apartment contracts may last up to 12 months. Applicants should verify the length of time listed on the contract prior to signing.
- All traditionally aged, first-year students who live on campus are required to have a weekly meal plan, regardless of the location of the room assignment.

\*Housing accommodations for residents seeking to stay on campus during fall break, winter break, spring break, are available for free (please know campus meal service may be limited or unavailable during these breaks). Summer housing is available and billed on a per-day basis during the summer session(s) in which a given student is enrolled. If you are interested in break housing, please contact Housing and Residence Life.

### Rules and Regulations

Housing and Residence Life Community Standards, expectations, procedures, as well as Boise State rules and regulations are defined more specifically in the *Residence Hall & Meal Plan Agreement*, *Student Code of Conduct*, and online at <https://www.boisestate.edu/housing/>.



#### Questions About On-Campus Student Housing?

If you have any questions about Housing and Residence Life, contact us at (208) 447-1001, [housing@boisestate.edu](mailto:housing@boisestate.edu), or online at <https://www.boisestate.edu/housing/>.

# Chapter 9—Student Services

Boise State University provides a variety of services, programs, and activities to help you obtain the maximum benefit from your university experience; most services are free if you are currently enrolled.

## Academic Programs and Services

The following services are available to you if you are seeking assistance with academic matters, from improving your writing, reading, and study skills to planning for a career.

### Advising and Academic Support Center (AASC)

The purpose of the Advising and Academic Support Center (AASC) is to provide advising and academic support with special emphases on first-year and undeclared students, major exploration, and academic performance following probation or reinstatement. AASC also offers student-success courses, academic coaching, access to online tutoring, and coordinates the Boise State Learning Assistant program. AASC's philosophy is that all students can achieve success if they set realistic educational and career goals, and take active steps to develop and practice academic skills. AASC encourages all enrolled students to understand university policies and values, take advantage of university support resources and involvement opportunities, and see themselves as owners of their learning process. Contact AASC at <https://www.boisestate.edu/aasc/>, call (208) 426-4049, or email [academic@boisestate.edu](mailto:academic@boisestate.edu).

### New Student Orientation

Once admitted, you will receive notice of your admission status and additional information on the next steps to complete enrollment. After you submit the Intent to Enroll, you will get an email inviting you to register for a new student orientation program. Attendance is expected of all incoming Boise State students. Orientation is designed to ease your transition into the Boise State community and help you get strategic about getting educated and earning your degree. During the program you will meet advisors, discuss course options, and register for your first semester of classes. Orientation programs are held throughout the summer as well as in December. Reservations are required to attend. A separate parent and family orientation runs alongside all student orientation programs. Details on how to register a parent or family member will be included in your new student orientation registration email.

### The Career Services

Career Services provides career exploration/planning and job search services to all Boise State students. These services include career exploration and planning and job search assistance (resumé development, interview training, professional networking and job search advising), and coordination of the university's internship and Work U programs. The Career Service's web-based career-guidance tools focus on using your interests, skills, and values for exploring careers and making career choices. The Career Services sponsors multiple events to connect you with employers including annual career fairs and a Meet the Employers Professional Series. Through Handshake, you can access on- and off-campus student employment, internship, and career-employment opportunities as well as schedule on-campus interviews with participating employers. Further information is available at <https://www.boisestate.edu/career/> or by calling (208) 426-1747.

### English Language Support Programs

Free one-on-one English language tutoring and course advice available for multilingual English learners. Flexible hours are negotiable. Call (208) 426-3426 for information. Additional resources for multilingual students are online at <https://www.boisestate.edu/englishsupport/>.

### New Student Programs

New Student Programs (NSP) provides programs and advocacy designed to help new students successfully transition to Boise State, making meaningful connections that increase the odds of persistence to graduation. NSP also provides support for the families of current students. Our first-year student programming and outreach efforts include New Student Orientation, Spanish Welcome, and Convocation. Parent and family outreach programming includes orientation, Parent and Family Weekend, and Spanish Welcome.

### Student Success Courses

Boise State offers a variety of student success (ACAD) courses. ACAD courses promote academic success through intentional assignments that emphasize skill-building, learning awareness, and academic goal setting. For more information, contact the Advising and Academic Support Center at (208) 426-4049 or [academic@boisestate.edu](mailto:academic@boisestate.edu). You can find ACAD course descriptions in Chapter 12—*Academic Programs and Courses* under Academic (Student Success Courses).

### Test Preparation

Assisting you in preparation for graduate admission exams for graduate school is the focus of short courses on the Graduate Record Exam (GRE), the Law School Admissions Test (LSAT), and the Graduate Management Admissions Test (GMAT) offered through the Center for Professional Development, in the Division of Extended Studies at Boise State. For more information, call (208) 426-1709.

### The Testing Center

The university provides a variety of testing services to Boise State students and the community. Tests offered include: Accuplacer (for placement into math courses), CLEP (College Level Equivalency Placement), Residual ACT (only for use at Boise State), ESOL (English for Speakers of Other Languages), World Language Placement, International Student Admissions exams (TOEFL and IELTS) and the Miller Analogies Test (graduate admission).

For testing hours and appointments, call (208) 426-2762 or go to <https://www.boisestate.edu/testing/>. You can also direct testing questions to [TestingServices@boisestate.edu](mailto:TestingServices@boisestate.edu). Located in the Simplot Micron Academic Success Hub, 2<sup>nd</sup> Floor, Room E213.

### Writing Center

The Boise State Writing Center is a free service open to all members of the campus community—students, faculty, and staff. We offer support and encouragement to all writers, primarily through one-to-one consultations, both in person and online. Each consultation is geared toward the individual needs of the writer and is a collaborative effort between writer and consultant. You can schedule a consultation by visiting us in Liberal Arts, Room 200 or at <https://www.boisestate.edu/writingcenter/>.

### Campus Recreation

The Campus Recreation mission: We build an engaged community that encourages healthy, active people and enhances student success. Campus Recreation offers a wide array of opportunities for informal, instructional, and competitive recreation programs. The 105,000 square foot Student Recreation Center serves as the hub for university students, faculty, staff, and alumni who want to be healthy and active members of the Boise State community. Programs and services include personal training, competitive and recreational sports, club activities, group exercise, outdoor recreation, cardio and strength workout options. The Student Recreation Center is located at 1515 University Drive (located adjacent to the Student Union). For more information call (208) 426-1131, or visit <https://www.boisestate.edu/recreation/>.

### Aquatics Programming

The 17,000-square-foot Aquatics Complex addition is a hub for water activities. With a multipurpose pool, recreation pool, and spa, the three bodies of water offer opportunities for lap swim, water exercise, swim lessons, water polo, kayaking instruction, relaxation, and more.

### Club Sports Programming

Club sports are student-run organizations for those who have a passion for a particular sport. The Club Sport Program emphasizes leadership, education and service through the sport it offers. There are over 25 existing club sports competing and representing Boise State.

### Fitness Programming

The Fitness Program organizes over 40 free drop-in group exercise classes each week during the semester including classes like: cycling, Zumba, yoga, and Insanity™. Motivational help with becoming more active or working to reach a fitness goal is available, including premium classes, incentives, fitness testing, and personal training. Workshops related to fitness and health are offered to educate the Boise State community.

### Intramural Sports Programming

If you are interested in an organized athletic activity, the Intramural Sports Program establishes numerous on-campus leagues and tournaments. Both the novice and expert can experience fun competition in team, dual, and individual sports throughout the year.

### Outdoor Programming

The Outdoor Program strives to promote student development in an inclusive environment by a hands-on learning experience of the mountains, rivers, and deserts of Idaho and beyond. The Outdoor Program offers a diverse range of recreational and educational opportunities for all levels of experience through its four main areas: trips, climbing gym, team building, and the rental center.

### The Cycle Learning Center

The Cycle Learning Center (CLC) is a campus-based service focused on developing healthy and sustainable lifestyles by promoting the use of bicycles and multi-modal transportation options. As the university's centralized source for basic bicycle repair services, instructional clinics, and alternative transportation information, the CLC strives to create a hands-on learning environment that empowers you to explore sustainable transportation through educational programming, retail sales, and services.

### Informal Recreation

There are many opportunities to recreate at Boise State. The Student Recreation Center comprises a three-court gymnasium, four racquetball courts, aquatics center, rock climbing wall and bouldering cave, multipurpose rooms, and a full complement of strength and cardio equipment. In addition, there are locker rooms, saunas, equipment check out, and towel service are available.

### Center for Global Education

The Center for Global Education (CGE) is the university division that provides leadership, coordination and support of campus-wide integration of global learning programs, international partnerships and cross-cultural engagement. Home to Global Learning Opportunities (study abroad), International Admissions, International Student Services, and the Intensive English Program, the Center for Global Education provides a variety of services, programs and activities. The CGE is located in SMASH 227. For more information call (208) 426-6243, or visit <https://www.boisestate.edu/globaleducation/>.

### Global Learning Opportunities

As a Boise State student, you have the opportunity to participate in academic programs around the world. There are summer, semester, and year-long study abroad options for which you receive academic credit at Boise State, with pre-departure planning and approval. These opportunities are affordable, with the option of using your financial aid and receiving scholarships. Most sites offer courses taught in English as well as opportunities to enhance foreign language skills.

If you participate in a Boise State Global Learning Opportunity, you may take advantage of international service-learning, internships, and volunteerism, as well as regular academic studies. For example, if you study in Puntarenas, Costa Rica, you can volunteer at a marine animal park. If you study in Bilbao, Spain, you can serve as an intern at a local company. If you study in China, you can serve as a conversation partner to Chinese students.

The benefits of an international experience are enormous. You will gain the ability to view your academic field from new perspectives; see and experience what you are studying at a personal level, enhance your cross-cultural communication skills, increase your self-awareness, and understand the American culture better. Additionally, graduates with international experience typically have a distinct advantage in the job market.

To receive credit for Global Learning Opportunities, you must register under the education abroad course number (INTPRGM 400 or INTPRGM 401). The *Course Approval Form* must be completed before departure to ensure proper evaluation of courses when the program is completed. Upon receipt of an official transcript, courses are evaluated and recorded to the Boise State transcript with transcript text indicating the location of study. Additional information, application forms and deadlines, final costs, and program prerequisites can be obtained at <https://www.boisestate.edu/globaleducation-glo/> or call Global Learning Opportunities at (208) 426-2630.

### National Student Exchange Program

Boise State is a member of the National Student Exchange (NSE) consortium. NSE is a unique, not-for-profit consortium of nearly 170 accredited, baccalaureate-granting colleges and universities in the United States, Canada, Guam, Puerto Rico and the U.S. Virgin Islands. NSE offers study opportunities at diverse university settings and provides access to a wide array of courses and programs; field experiences, co-op, and internship options; resident assistant opportunities, and honors programs of its member campuses. While attending the host institution, you may pay either the current Boise State fees or the in-state tuition rate of the host school. Credits and grades earned at the host institution are recorded at the home campus as part of your regular transcript. To be eligible, you must be enrolled full-time at Boise State, have sophomore or junior standing during the exchange, and have a minimum grade-point average of 2.5. For more information see <https://www.boisestate.edu/globaleducation-glo/> or call Global Learning Opportunities at (208) 426-2630.

### International Student Services (ISS)

International Student Services provides comprehensive support services to international students as they integrate into the larger campus community. ISS acts as a welcoming center where international student needs can be met directly or referred to the appropriate community resource. ISS serves as the primary source of expertise regarding immigration and cross-cultural issues for the campus at-large, and as a liaison between faculty, staff and international students. ISS provides opportunities for intercultural engagement, supporting university efforts toward internationalization by bringing international and

domestic community members together for cultural exchange. International Student Services is located in room 227 of the Simplot Micron Advising and Success Hub. For more information please visit us on the web at <https://www.boisestate.edu/globaleducation-iss/> or call International Student Services at (208) 426-3652.

### **Intensive English Program (IEP)**

The Intensive English Program provides a variety of learning opportunities, services, and programs to meet the needs of non-native English speaking students. For more information, visit <https://www.boisestate.edu/globaleducation-iep/>, call (208)426-1921, or email [iepinfo@boisestate.edu](mailto:iepinfo@boisestate.edu).

### **Pathway Program**

Offered through the Intensive English Program, the Pathway Program is designed for students who intend to pursue a degree at Boise State but do not have a high enough language proficiency test score (TOEFL or IELTS) for full admission. This credit-bearing program offers language skill development, academic preparation and ongoing cultural orientation to help prepare for success at Boise State and beyond. Students will take academic English courses and undergraduate courses at the same time. Upon successful completion of the Pathway Program, students will receive full admission to Boise State.

### **Intensive English Language Program**

The Intensive English Language Program provides non-credit English language courses to support the diverse needs of non-native English speaking students (domestic and international) who wish to improve their English language skills for personal enrichment, professional development and/or academic success. Offered in five levels, from beginning to advanced, IEP courses address the varying needs of people with different levels of English proficiency. This is a non-credit program. The Intensive English Program offers:

#### **English PLUS Program**

The Intensive English Program offers these programs to non-native English speaking students who wish to improve their English language skills while also engaging in additional educational opportunities, experiential learning and community excursions. This program is ideal for students who would like to study for one or two semesters but who do not intend to matriculate into the university.

#### **Teaching English to Speakers of Other Languages (TESOL) Certificate Program**

Offered through the Intensive English Program, the TESOL Certificate Program is designed both for individuals considering the field of teaching English (ESL, TESOL, TEFL) and for professionals seeking to expand their knowledge. Participants will explore current theory and methods; engage in hands-on learning; observe ESL classrooms taught by experienced instructors; and develop practical language teaching skills. This is a non-credit program that meets online and in-person.

## **Health Services**

Health Services provides the Boise State community with comprehensive health care that focuses on an integrated delivery model. Combining the highly skilled and licensed staff of the Medical, Counseling and Wellness departments enables you to retain, enhance, promote, and improve upon your physical, mental, and spiritual health. Health Services provides specialized resources, and experiential learning opportunities in support of the overall mission of Boise State.

### **Medical Services**

Your on-campus family doctor's office. Whether you are sick, injured, or need care for a long-standing medical condition, Medical Services is equipped and staffed to take care of you. Services are located conveniently on campus and affordable. We give special attention to health promotion and disease prevention, and empower patients to take responsibility for their own health by making healthy choices. Appointment and urgent/walk-in services are available. Wellness Services empowers you in your lifelong commitment to health by providing comprehensive wellness resources to the campus community.

### **Counseling Services**

Provides services that enhance growth and development, help improve personal effectiveness and resilience, and promote success. We are here to help you deal more effectively with concerns that impact your pursuit of personal and academic goals. We have a diverse and experienced staff of psychologists, counselors, social workers, and supervised trainees. We provide a range of services that include individual, multi-person, and group counseling, consultation and crisis intervention, workshops and outreach presentations, all aimed at enhancing student success at Boise State.

### **Wellness Services**

Based in the Health Center, but has programming which occurs throughout campus, Wellness Services contributes to the integration of services by offering Dietitian Services, HIV Testing, and Health Coaching. Peer Educators provide outreach and education to students on a variety of health topics while receiving experiential learning opportunities and experiences.

### **Health Insurance and Billing**

The Health Insurance and Billing Office can help answer general questions regarding health insurance and can provide you with resources that can assist you with plans on or off of the marketplace.

#### **Affordable Care Act—Health Insurance Exchange Notice**

The Marketplace is where individuals and families looking to buy health insurance can shop for, compare, and choose from several health coverage options. It also provides you basic information about eligibility for tax credits or subsidies.

- If you are an Idaho resident, visit the Idaho Marketplace at <https://www.yourhealthidaho.org/>.
- If you are an out-of-state student, visit <https://www.HealthCare.gov/> to access insurance options available from your home state.
- If you are an international student, legally residing in the United States, you can purchase health insurance in the Marketplace; however, you are not eligible for tax credits or subsidies.

For additional information on insurance or finding a plan, contact the Health Insurance Office at (208) 426-2158, or email [healthinsurance@boisestate.edu](mailto:healthinsurance@boisestate.edu).

### Student Involvement and Leadership

As a Bronco, you are destined to do great things, but your success is not wholly defined by personal accomplishments. Success is also defined by the impact you have in the lives of others. The Student Involvement and Leadership Center works to build connections between Boise State students, the campus, and the local community. This is accomplished through leadership development programs, volunteer and service opportunities, student organizations, sororities and fraternities, and campus activities. You can write your own unique involvement story by joining any of the 200+ student organizations. These include academic, cultural, recreational, and social organizations. Meet people and have fun at campus activities like Splatter Party and Spring Fling. Become a leader through programs like Catalyst and LeaderShape. Make a difference by serving on a domestic or international Alternative Break. You can get involved, connect with other students, the campus, and the community while learning to reach your full capacity to impact and change the world.

For additional information and ideas on how to get involved, visit us on the second floor of the Student Union Building above the Boise River Café, find us online at <https://www.boisestate.edu/getinvolved/>, or call (208) 426-1223.

### Associated Students of Boise State University

The Associated Students of Boise State University (ASBSU) advocates on behalf of Boise State students by promoting student engagement on university task forces, committees, and advisory boards, and by serving as a voice for student concerns. Further, ASBSU encourages student participation in university life by providing financial support to student organizations. ASBSU is made up of several bodies: elected and appointed student representatives in the Executive Council manage the internal and external affairs of the organization; students from academic and non-academic departments in the Student Assembly give opinion on university initiatives; and the Student Funding Board provides funding allocations for student organizations. ASBSU offices are located within the Student Involvement and Leadership Center on the second floor of the Student Union. For additional information, call (208) 426-4240 or visit <https://www.boisestate.edu/asbsu/>.

### Other Student Services

Listed below are a number of services and programs provided to students, staff, and faculty, including services offered by the Advising and Academic Enhancement Office, the Veterans Services Office, and the Gender Equity Center.

#### Children's Center

The nationally accredited Boise State Children's Center provides care for children eight weeks to five years of age. Operating hours are 7:00 a. m. –5:30 p. m., five days a week during fall and spring semesters and thirteen weeks of summer session. It is located at the corner of Beacon and Oakland Streets. The center is licensed through the City of Boise and accredited through the National Association for the Education of Young Children. The center accepts ICCP. To be considered for enrollment a child care application must be completed at the center. For more information and rates, call (208) 426-4404 or visit <https://www.boisestate.edu/childrenscenter/>.

#### Dean of Students

The Office of the Dean of Students (DOS) provides a variety of services designed to support student success and engagement at Boise State. The DOS plays a significant role in supporting and empowering students and their families during difficult times by providing service to students who need clarification and advice regarding a wide range of student-related issues related to campus life, student services, safety, individual concerns, and personal and family emergencies. Call (208) 426-1527 or visit <https://www.boisestate.edu/deanofstudents/>.

### Educational Access Center

The center coordinates academic and housing accommodations for students who have self-identified as having a disability. In addition to working with students to establish reasonable and appropriate accommodations, the Educational Access Center provides students, faculty, and staff with information about specific disabilities and accessibility at Boise State. For further information, visit <https://www.boisestate.edu/eac/> or call (208) 426-1583.

### Gender Equity Center

The Gender Equity Center (GEC) supports you in achieving your academic goals by providing educational outreach, no cost confidential support services, and opportunities to make connections with other students.

The staff promotes active citizenship and encourages dialogue about the social construction of gender and how gender intersects with race, ethnicity, class, sex, sexual orientation, ability, age, and nationality. Educational events and programs are created by peer educators who welcome ideas and opportunities for collaboration within these areas of focus: LGBTQIA+ (Lesbian, Gay, Bisexual, Transgender, Queer, Intersect, Asexual, and additional related identities) topics, healthy relationships, violence prevention, and intersectional feminism. We offer advocacy, case management, and share resources in no cost confidential support meetings. These services are often sought by folks who identify as LGBTQIA+ or an ally, or folks who are impacted by sexual assault, relationship violence, and stalking. We also support students experiencing personal, financial, or academic crises.

The Gender Equity Center has a lounge equipped with board games, puzzles, a smart TV, tables, and couches. The lounge features a community kitchen with a microwave, a full sized refrigerator with a freezer, a coffee maker, electric water kettle, dishes, and silverware. The kitchen also has a satellite food pantry available to all students who may need a little help extending their food budget. The Rainbow Room, a meeting space in the GEC, can be reserved by students to host meetings, study groups, or for a quiet place to work.

For a full list of programs and services or to sign up for our e-newsletter, visit our website at <https://www.boisestate.edu/genderequity/> or stop by the center, located on the second floor of the Student Union Building, (208) 426-4259.

### McNair Scholars Program

The McNair Scholars Program is a U.S. Department of Education funded TRIO program. It is a 2-year academic achievement program that prepares you for graduate studies, with the expectation that you will enter a graduate program upon completion of your bachelor's degree. The program serves 27 low-income and first-generation students, or students that come from backgrounds underrepresented in graduate studies (African-American, Latino, and Native American). Services include: academic enrichment, graduate application support, research (stipend provided), GRE preparation, travel to research conferences and graduate schools, and other scholarly activities. The McNair Scholars Program is located in Riverfront Hall, Room 203. For more information please visit our website at: <https://www.boisestate.edu/education-mcnair/> or contact us at: (208) 426-2453 or [mcnair@boisestate.edu](mailto:mcnair@boisestate.edu).

### Multicultural Student Services

Multicultural Student Services provides training, education, and advocacy for you on issues of power, privilege, oppression, works to raise awareness, conduct trainings, develop workshops and create programming that will address issues for both dominant and nondominant groups. Multicultural Student Services also provides a forum for education aimed at helping you learn multicultural skills and perspectives that you need for a successful experience at Boise State and beyond. All of these efforts are an expression of our commitment to a philosophy of Inclusive Excellence at Boise State. Multicultural Student Services is housed in the Student Diversity Center on the second floor of the Student Union Building, co-located with International Student Services. For more information please visit us on the web at <https://www.boisestate.edu/mss/> or call us at (208) 426-5950.

### Outreach Locations

Student services such as advising, registration, book sales, and library services are available at most off-campus sites. The outreach locations and phone numbers are listed in Chapter 1—*An Introduction to Boise State*, in the section about the Division of Extended Studies.

### Student Diversity Center

Located on the second floor of the Student Union Building, (208) 426-5950, the Student Diversity Center houses both International and Multicultural Student Services and is a place where you can meet with other students in a relaxed, friendly atmosphere. The Student Diversity Center promotes cultural diversity and appreciation through campus-wide cultural awareness programs and through the support of Boise State's ethnic organizations' festivals and events provided through International Student Services, Multicultural Student Services and the Martin Luther King Jr. Living Legacy Committee. The Student Diversity Center also provides a forum for education aimed at helping you learn multicultural skills and perspectives that you need for a successful experience at Boise State and beyond. All of these efforts are an expression of our commitment to a philosophy of Inclusive Excellence at Boise State.

### Student Employment

As a registered student, you can search for on-campus (including work-study), off-campus, part-time, summer, temporary, and full-time job opportunities on Handshake, the university's web-based job-listing site, hosted by the Career Services. There is no charge to use this service. New jobs are posted daily. Further information is available at (208) 426-1747 or <https://www.boisestate.edu/career/>.

### Student Rights and Responsibilities

Boise State is committed to maintaining a strong, academically honest environment, free from harassing and disruptive behavior. As a part of the Office of the Dean of Students, Student Rights and Responsibilities serves as the central coordinating office of university student conduct regulations and ASBSU Student Legal Services. For further information, please call (208) 426-1527 or visit <https://www.boisestate.edu/deanofstudents/>.

### TRIO Rising Scholars Program

The TRIO Rising Scholars Program is funded by the U.S. Department of Education and provides services to help undergraduate students complete a baccalaureate degree. The program is designed to serve 180 first-generation or limited-income students, as well as students with documented disabilities. TRIO Rising Scholars Program services include: academic and personal advising, individualized tutoring, career and graduate school planning, academic skills development, FAFSA and financial literacy support, and computer lab access. The program is located in the Education Building, Room 228. For more information please visit our website, <https://www.boisestate.edu/education-trs/> or contact us at: (208) 426-3583 or email [ramonashipman@boisestate.edu](mailto:ramonashipman@boisestate.edu).

### TRIO Teacher Preparation Program

The TRIO Teacher Preparation Program is funded by the U.S. Department of Education and provides services to help you complete a baccalaureate degree that leads to teacher certification. The program is designed to serve first-generation, and/or limited-income students, and/or students with documented disabilities. TRIO Teacher Preparation services include: academic and personal advising, Praxis support, individualized tutoring, career planning, academic skills development, FAFSA and financial literacy support. The program is located in the Education Building, Room 208 and 228. For more information, visit <https://www.boisestate.edu/education-trioteacherprep/> or call (208) 426-3587 or email [joshbaros@boisestate.edu](mailto:joshbaros@boisestate.edu).

### Veteran Services

The Veteran Services Office, consists of a peer customer service staff, Academic and Career coach, and an Outreach Coordinator. All of which provide GI Bill® assistance, transition support, and academic/career advising to Veterans, Active Duty military, National Guard and Reserve members, as well as dependents who may qualify. GI Bill® is a registered trademark of the U.S. Department of Veterans Affairs (VA). More information about education benefits offered by VA is available at the official U.S. government website at <https://www.benefits.va.gov/gibill>. They are located in the Lincoln Office Suites adjoining the Lincoln Parking Garage, 1607 University Drive, (208) 426-3744, <https://www.boisestate.edu/veterans/> or email [veteranservices@boisestate.edu](mailto:veteranservices@boisestate.edu).

# Chapter 10—Obtaining a Degree at Boise State University

This chapter defines the minimum credit requirements for each degree available at Boise State, as well as general policies applying to all degrees. After reading this chapter, you should turn to Chapter 12—*Academic Programs and Courses*, where you will find additional requirements you must meet to obtain a degree. These additional requirements (known as major requirements) are specified by the department or interdisciplinary program responsible for the degree you wish to obtain. From time to time, as your academic work progresses, review this chapter and other relevant sections of the catalog to verify that you are making satisfactory progress toward your academic goals and that you are meeting all the requirements for the degree you seek.

Table 10.1 lists the types of degrees offered at Boise State University. For a complete list of degrees, majors, minors, certificates, and transfer programs, see Chapter 11—*Summary of Programs and Courses*.

Table 10.1  
Types of Undergraduate Degrees  
Offered at Boise State

|   |
|---|
| Associate of Arts (AA)                    |
| Associate of Science (AS)                 |
| Bachelor of Arts (BA)                     |
| Bachelor of Applied Science (BAS)         |
| Bachelor of Business Administration (BBA) |
| Bachelor of Fine Arts (BFA)               |
| Bachelor of Music (BM)                    |
| Bachelor of Science (BS)                  |

Undergraduate degrees available at Boise State fall into one of two categories: associate degrees and baccalaureate degrees (also known as bachelor's degrees). Both degrees are academic titles granted to students who have completed a specific course of study; a particular course of study constitutes a major (for example, accountancy, biology, or English). For instance, if you major in biology, you will receive a bachelor of science degree. If you major in English, you will receive a bachelor of arts degree.

Typically, obtaining a baccalaureate degree requires four years or more of full-time study, while obtaining an associate degree usually requires two or more years of full-time study.

In addition to the information contained in this catalog, you can receive information and assistance from your academic advisor. Use this opportunity to consult your advisor about your academic goals and your plans for achieving them. If you have selected a major, you will work with an advisor in the academic department responsible for your major. To view advising contacts by major, go to <https://www.boisestate.edu/aasc/>. If you have not selected a major, you will work with an advisor from the Advising and Academic Support Center located in the Simplot Micron Advising and Success Hub (SMASH), 1<sup>st</sup> floor. Contact information: (208) 426-4049, [academic@boisestate.edu](mailto:academic@boisestate.edu), <https://www.boisestate.edu/aasc/>.

## General Degree Requirements

### To obtain a certificate you must:

- complete the number of credits specified for that certificate,
- have already earned, or earn in conjunction with the certificate, an associate or baccalaureate degree unless otherwise indicated,
- attain a cumulative grade-point average (GPA) of 2.0 or higher,
- attain a grade of C- or higher in all upper-division courses required for that certificate,
- not have a grade of I (incomplete) on your record,
- complete all other requirements specified by the program or department offering the certificate,
- complete graduation application by posted deadline, and
- be in good academic standing with the university.

### To obtain an associate degree you must:

- complete the number of credits specified for that degree, minimum 60 credits,
- complete 15 credits at Boise State (residency requirement),
- fulfill all University Foundations requirements for University Foundation (UF) and Foundations of the Discipline (FD) courses with a grade of C- or higher in each course, unless otherwise required by department,
- complete the college first-year writing requirement with a grade of C- or higher,
- attain a cumulative grade-point average (GPA) of 2.0 or higher,
- not have a grade of I (incomplete) on your record,
- complete all other requirements specified by the program or department offering the degree,
- complete graduation application by posted deadline, and
- be in good academic standing with the university.

### To obtain a baccalaureate degree you must:

- complete the number of credits specified for that degree, minimum 120 credits;
  - of those credits, at least 40 must be in upper-division courses (numbered 300 or higher),
- complete 30 upper-division credits at Boise State (residency requirement),
- fulfill all University Foundations requirements for University Foundation (UF) and Foundations of the Discipline (FD) courses with a grade of C- or higher in each course, unless otherwise required by department,
- complete the college first-year writing requirement with a grade of C- or higher,
- attain a cumulative grade-point average (GPA) of 2.0 or higher and meet any other grade requirements stipulated for your major,
- attain a grade of C- or higher in all upper-division courses required by your major and minor,
- not have a grade of I (incomplete) on your record,
- complete all major requirements specified by the program or department offering the degree,
- complete graduation application by posted deadline, and
- be in good academic standing with the university.



## College First-Year Writing Requirement

All students seeking a baccalaureate degree must complete at least six credits in first-year writing. To successfully complete the First-Year Writing Requirement, you must complete ENGL 101 and ENGL 102 (or their equivalents) with a grade of C- or higher, or demonstrate writing proficiency as outlined below.

|  |   |
|--|---|
| ENGL 101 Waived  | Satisfactory score to place into ENGL 102 from The Write Class assessment tool.   |
| ENGL 101 Credit  | AP Language and Composition score of 3 or 4; or Completion of International Baccalaureate Diploma Programme.  |
| ENGL 101 and 102 Credit  | AP Language and Composition score of 5; or ACT English score of 31 or higher; SAT Reading score of 37 or higher; or International Baccalaureate English A Level Language and Literature HL or SL exam score of 5 or higher and completion of Diploma Programme. |
| Note: All students must complete The Write Class, regardless of eligibility for receiving credit based on measures listed above. To receive credit for ENGL 101 and ENGL 102 based on ACT or SAT scores, students must complete the <i>Receiving Credit for English Composition Based on Test Scores</i> form and submit it to the Registrar's Office. |   |

**Course Selection** Boise State uses an online assessment tool, The Write Class, to place students in the appropriate first-year writing course. Before your orientation session (and before you are able to register for a first-year writing course), you need to complete The Write Class, <https://www.thewriteclass.org/>. Results take up to 72 hours to process. You may need to access your results during your orientation session.

**International Students** If you are an international student attending Boise State on an F-1 student visa, you are required to take the ESOL (English for Speakers of Other Language) placement test. To take the ESOL placement test, contact The Testing Center, (208) 426-2762, located at Simplot Micron Academic Success Hub (SMASH), 2<sup>nd</sup> floor, Room 213, or see their website <https://www.boisestate.edu/testing/>.

**Transfer Students** If you have transferred English composition courses from another institution to Boise State, the Registrar's Office will determine whether your courses satisfy all or part of the First-Year Writing Course Requirement. If you have further questions about first-year writing transfer equivalencies, the First-Year Writing Program Office can provide information about options. For further information, please see the FAQs at <https://www.boisestate.edu/english/first-year-writing/placement-information/>.

For further information on first-year writing courses or transfer issues, contact the First-Year Writing Program Office, Liberal Arts Building, Room 256. Preferred contact: [fywp@boisestate.edu](mailto:fywp@boisestate.edu), secondary contact: (208) 426-4209. For questions about placement, contact the placement manager. Preferred contact: [thewriteclass@boisestate.edu](mailto:thewriteclass@boisestate.edu).

## Mathematics Requirement

Because the ability to think quantitatively is a characteristic of an educated person, Boise State requires you to demonstrate proficiency in mathematics. All students seeking a baccalaureate degree or an associate degree must complete 3-4 credits in mathematics.

### Mathematics Placement Exam Policy

**ACT/SAT/Accuplacer are for placement only. All students must take a mathematics course; the placement tests do not waive the mathematics requirement.**

**Placement Exams** Boise State uses an "adaptive" computerized exam that covers up to four areas of mathematics: pre-algebra, algebra, college algebra, and trigonometry. The areas covered will depend on your background and your performance as the exam proceeds.

The exam is untimed and the number of questions you will be given will vary due to the adaptive nature of the exam, but you should generally allow about an hour. Your exam will be scored immediately and you will be given a printout of your results telling you which classes you are permitted to take.

An exam fee is payable to The Testing Center, Simplot Micron Academic Success Hub, 2<sup>nd</sup> floor, Room 213, at the time you take the exam. Photo ID is required. Personal checks are not accepted.

| ACT  | SAT | Accuplacer | Course Placement                               |
|--|-----|------------|--|
| 18   | 430 | 244 QAS    | MATH 108, MATH 123, MATH 133, MATH 153         |
| 23   | 540 | 256 QAS    | CS 111, MATH 143, MATH 149, MATH 157, MATH 254 |
| 27   | 620 | 254 AAF    | MATH 144*, MATH 160                            |
| 29   | 650 | 268 AAF    | MATH 170**                                     |
| *MATH 144 can be earned simultaneously with co-requisite MATH 143.<br>**MATH 170 can be earned simultaneously with MATH 144. |     |            |  |

**Transfer students** will need to contact the Mathematics Department ([mathoffice@boisestate.edu](mailto:mathoffice@boisestate.edu)) to determine whether transfer courses not equivalent to a Boise State course will count as prerequisites for placement purposes.

**Scores on the mathematics portion of the ACT or SAT** may be used for placement, but if in doubt, you should take the placement exam. The table above gives placement cutoffs for standard scores. You may take the indicated course **if your standard score is high enough**.

Table 10.4—University Foundations Courses

**University Foundations (UF)**

UF 100 Foundations of Intellectual Life  
 UF 200 Foundations of Ethics and Diversity

**Foundations of Writing (FW)**

ENGL 101 Writing and Rhetoric I  
 ENGL 102 Writing and Rhetoric II

**Foundations of Oral Communication (FC)**

COMM 101 Fundamentals of Oral Communication  
 SOC 122 Sociological Communication

**Foundations of Arts (FA)**

ART 100 Introduction to Art  
 ARTHIST 101 Survey of Western Art  
 FILM 220 Cinema: History and Aesthetics  
 MUS 102 Introduction to Jazz  
 MUS 105 Introduction to Pop/Rock Music  
 MUSI 100 Introduction to Music  
 THEA 101 Introduction to Theatre

**Foundations of Humanities (FH)**

ENGL 175 Literature and Ideas  
 HUM 207 Introduction to Humanities  
 PHIL 101 Introduction to Philosophy  
 PHIL 102 Introduction to Philosophy: Great Thinkers  
 PHIL 103 Introduction to Ethics  
 PHIL 209 Thinking Well: An Introduction to Logic  
 PHIL 220 Philosophical Perspectives on Science and Mathematics  
 STEM-ED 220 Philosophical Perspectives on Science and Mathematics  
 World Languages discipline:  
 ARABIC 101-102, 201-202 Elementary, Intermediate  
 ASL 101-102, 201-202 American Sign Language  
 BASQUE 101-102, 201-202 Elementary, Intermediate  
 BOSNIAN 101 Elementary  
 CHINESE 101-102, 201-202 Elementary, Intermediate Mandarin  
 FREN 101-102, 201-202 Elementary, Intermediate French  
 GERM 101-102, 201-202 Elementary, Intermediate German  
 JAPANESE 101-102, 201-202 Elementary, Intermediate  
 KOREAN 101-102, 201-202 Elementary, Intermediate  
 LATIN 211 Elementary Classical Latin  
 LATIN 212 Advanced Classical Latin  
 PORTUGUE 101-102, 201-202 Elementary, Intermediate  
 SPAN 101-102, 201-202, 203 Elementary, Intermediate Spanish

**Foundations of Mathematics (FM)**

MATH 123 Math in Modern Society  
 MATH 133 Elementary Models with Functions  
 MATH 143 College Algebra  
 MATH 149 Precalculus: Functions for Business  
 MATH 153 Statistical Reasoning  
 MATH 160 Survey of Calculus  
 MATH 170 Calculus I  
 MATH 254 Introduction to Statistics  
 MATH 257 Geometry and Measurement for Teachers

**Foundations of Natural, Physical, and Applied Sciences (FN)**

Requires two courses from two disciplines, at least one with a lab.

\*Courses without a lab do not fulfill the lab requirement

ANTH 103\* Introduction to Archaeology  
 ANTH 104\*-104L Biological Anthropology and Lab  
 ANTH 105\* Evolution and Human Behavior

BIOL 100 Concepts of Biology  
 BIOL 107 Introduction to Human Biology  
 BIOL 191 Biology I: Intro to Cell and Molecular Biology  
 BIOL 227 Human Anatomy and Physiology I  
 CHEM 100 Concepts of Chemistry  
 CHEM 101\*-101L Introduction to Chemistry and Lab  
 CHEM 102\*-102L Essentials of Organic and Biochemistry and Lab  
 CHEM 111\*-111L General Chemistry I and Lab  
 Engineering/Materials Science and Engineering discipline:  
 ENGR 100\*-100L Energy for Society and Lab  
 ENGR 101\* Sustainable Cities  
 MSE 245\* Introduction to Materials Science and Engineering  
 ENVSTD 121\* Introduction to Environmental Studies  
 GEOL 101 Physical Geology  
 GEOL 102\* Historical Geology  
 GEOS 101 Global Environmental Science  
 GEOS 104 Geoscience and Society  
 GEOS 201\* Introduction to Oceanography  
 PHYS 101 Introduction to Physics  
 PHYS 104 Life in the Universe  
 PHYS 105 Stars and Cosmology  
 PHYS 111, 112 General Physics I, II  
 PHYS 211\*-211L Physics I with Calculus and Lab

**Foundations of Social Sciences (FS)**

Requires two courses from two disciplines.

ANTH 102 Cultural Anthropology  
 ANTH 216 Magic, Witchcraft and Religion  
 COMM 112 Reasoned Discourse  
 CJ 103 Introduction to Law and Justice  
 ECON 201 Principles of Macroeconomics  
 ECON 202 Principles of Microeconomics  
 Education discipline:  
 ED-CIFS 201 Education, Schooling, and Society  
 ED-ESP 223 Child Growth and Development  
 EDTECH 203 Foundations of Digital Culture  
 ED-LLC 200 Cultural Diversity in the School  
 STEM-ED 210 Knowing & Learning in Mathematics and Science  
 GEOG 101 Introduction to Geography  
 GEOG 102 Cultural Geography  
 GLOBAL 101 Global Studies: Conflict, Cooperation, & Change  
 HIST 101, 102 World History I, II  
 HIST 111, 112 United States History I, II  
 HLTH 110 Intro to Health Science and Public Health  
 LING 205 Language in Human Life  
 POLS 101 American National Government  
 POLS 201 Current Events in American Politics  
 POLS 202 Current Events in Global Politics  
 POLS 203 Political Science in Popular Media  
 PSYC 101 Introduction to Psychology  
 SOCWRK 101 Introduction to Social Welfare  
 SOC 101 Introduction to Sociology  
 SOC 102 Social Problems  
 SOC 230 Introduction to Ethnic Studies  
 URBAN 101 Cities and Society

**Finishing Foundations (FF)**

Major specific capstone courses in discipline.

## University Foundations

### Philosophy of University Foundations

Boise State's University Foundations curriculum offers an integrated, sequential learning experience that illustrates the university's commitment to undergraduate education from entrance to graduation. The curriculum's distinctive features will help you to achieve academic excellence. University Foundations courses constitute a coherent framework on which departments establish the educational opportunities specific to the needs of their disciplines.

From the time you enter the university, you will encounter skilled and motivated faculty members in courses that feature diverse opportunities for examination of historical, intellectual, and ethical traditions. Courses focus on inquiry central to a university education, creating opportunities to explore important subjects, ask questions, debate ideas, increase understandings, research, innovate, and solve problems.

The emphasis is on building a foundation for both advanced study and lifelong learning. Courses in the University Foundations curriculum have clearly articulated goals (University Learning Outcomes) and a built-in process for robust assessment that fosters ongoing improvement. A complete description of University Foundations may be found at <https://www.boisestate.edu/academics-uf/>.

### University Learning Outcomes

The eleven desired university learning outcomes (ULOs) listed below ensure you will be repeatedly exposed to the essential soft skills sought in college graduates as well as the disciplinary outcomes important for breadth of learning. These outcomes were developed by the faculty to provide undergraduates with a common experience aimed at both unifying the university's diverse student body and expanding your awareness of yourself and your world. Every Boise State graduate is expected to have met these ULOs, regardless of major or baccalaureate degree.

#### University Learning Outcomes—Interdisciplinary:

- **Written Communication**—Write effectively in multiple contexts, for a variety of audiences.
- **Oral Communication**—Communicate effectively in speech, both as speaker and listener.
- **Critical Inquiry**—Engage in effective critical inquiry by defining problems, gathering and evaluating evidence, and determining the adequacy of argumentative discourse.
- **Ethics**—Analyze ethical issues in personal, professional, and civic life and produce reasoned evaluations of competing value systems and ethical claims.
- **Diversity**—Apply knowledge of diversity and systems of inequality to address social issues of local and global importance.

#### University Learning Outcomes—Disciplinary

- **Mathematics (FM)**—Develop an understanding of mathematical reasoning processes and the ability to utilize these processes to solve college-level mathematical problems.
- **Natural, Physical, and Applied Sciences (FN)**—Adhere to a self-correcting system of inquiry (the scientific method) and rely on empirical evidence to describe, understand, and predict natural phenomena.
- **Arts (FA)**—Apply knowledge and methods characteristic of the visual and performing arts to explain and appreciate the significance of aesthetic products and creative activities.
- **Humanities (FH)**—Apply knowledge and the methods of inquiry characteristic of humanities disciplines to interpret and produce texts expressive of the human condition.
- **Social Sciences (FS)**—Apply knowledge and the methods of inquiry characteristic of the social sciences to explain and evaluate human behavior and institutions.

The interdisciplinary ULOs focus on the soft skills developed throughout the academic career and in multiple courses and contexts. After exposure to these

learning outcomes in early courses, you will revisit them in greater depth throughout your college experiences and academic programs.

The disciplinary ULOs associated with disciplinary course clusters represent multiple perspectives to be encountered during your academic career. Courses are aligned with the Foundations of the Discipline clusters that best match the learning outcomes naturally associated with that course.

Boise State's ULOs were inspired by the AAC&U's "LEAP" framework: <https://www.aacu.org/leap/index.cfm>.

### University Foundations Requirements

#### I. Foundations of Writing (ENGL 101 and ENGL 102)

This two semester, six-credit sequence provides an introduction to the university's expectations about academic writing and research. The program is coordinated by the English Department's First-Year Writing Program. You will be placed in appropriate courses based on test scores. See College First-Year Writing Requirement in this chapter for details.

#### II. University Foundations (UF) Courses

- Courses with a UF (University Foundations) prefix introduce a diversity of intellectual pursuits, encourage a critical stance toward learning, and equip you with university-level analytic and communication skills.
- **Foundations of Intellectual Life (UF 100)** is a three-credit course offered as a large general session in combination with a small-format discussion section (-25 student) which focus on what it means to investigate and discuss intellectual questions at the university level. Sections of the course are organized around different central themes listed in the course schedule for each semester. The course supports Critical Inquiry and Oral Communication.
- Should you transfer to Boise State with 26 or more earned academic credits from another college or university, you may place into UF 200 if those credits include at least three courses equated as Foundation Discipline courses from different fields that apply toward the University Foundations disciplinary core certification requirements and have a grade of C- or higher. Concurrent credits taken at Boise State are not considered transfer credits; the credits may count towards major degree completion.
- **Foundations of Ethics and Diversity (UF 200)** is a three-credit sophomore-level course that engages you in topics connected to ethics and diversity. Preview our topics online at <https://www.boisestate.edu/academics-uf/uf-200-themes/>. We keep the classes small (around 30 students) to support active learning, meaningful discussion, and connecting the course theme to issues and activities in our larger community. The course emphasizes written communication, ethics and diversity. Prerequisites: ENGL 102, UF 100, and sophomore standing.

#### III. Foundations of the Discipline (FD)

All students are required to take a number of Foundations of the Discipline courses (see degree table for specific requirements). These courses are offered by academic departments and designed to expose non-majors to the distinctive methods and perspectives of a disciplinary cluster. The distribution requirements for Foundations of the Discipline courses reflect the belief of the faculty and the Idaho State Board of Education that a major purpose of undergraduate education is to prepare graduates to fulfill the responsibilities of a citizen and to understand and appreciate diverse approaches to information and values. Foundations of the Discipline courses are listed in Table 10.4 and are identified with the word Foundations in the course description. Some departments and programs require specific Foundations of the Discipline courses.

## OBTAINING A DEGREE FROM BOISE STATE

### IV. Foundations of Oral Communication (FC) Courses

You must successfully complete a Foundations of Oral Communication (FC) course. FC courses focus on Oral Communication, providing an introduction to the university's expectations for effective speaking and listening.

### V. Finishing Foundations (FF) Courses

You must successfully complete a Finishing Foundations (FF) capstone course designated by your major department. Finishing Foundations courses range from 1-3 credits and are meant to be taken close to graduation; they are designed to bridge academic knowledge with applications expected by graduates. They emphasize Critical Inquiry, Written and Oral Communication, plus Teamwork and/or Innovation. They are identified with FF in the course description.

Table 10.5 University Foundations Requirements

| Content  | Credits      |
|--|--------------|
| University Foundations (UF)*<br>UF 100 Foundations of Intellectual Life<br>UF 200 Foundations of Ethics and Diversity                            | 6            |
| Foundation of Writing (FW)*<br>FW ENGL 101 Writing and Rhetoric I<br>FW ENGL 102 Writing and Rhetoric II   | 6            |
| Foundations of Oral Communication (FC)   | 2-3          |
| Foundations of Mathematics (FM)*   | 3-4          |
| Foundations of Natural, Physical, and Applied Sciences (FN)*—two courses in two different fields, at least one with a lab                        | 7-8          |
| Foundations of Arts (FA)*  | 3            |
| Foundations of Humanities (FH)*  | 3-4          |
| Foundations of Social Sciences (FS)*—two courses in two different fields   | 6            |
| Finishing Foundations (FF)**—capstone course in discipline   | 1-3          |
| <b>Total</b>   | <b>37-43</b> |
| *These courses meet the Idaho State Board of Education General Education Matriculation requirements for GEM certified courses.                   |              |
| **Finishing Foundations is satisfied by discipline (i.e., major) requirements. Finishing Foundations must be 1-3 credits in a particular course. |              |

By the end of the first half of their undergraduate careers, you are expected to have completed ENGL 101 and 102, UF 100 and UF 200, and most, if not all, of the Foundations requirements.

### UF Placement for Transfer Students

- UF 100 is not required if you:
  - Transfer from a U.S. regionally accredited academic institution and have earned an AAS degree. You are required to complete UF 200.
  - Transfer from a U.S. regionally accredited academic institution and are transferring in 26 credits or more earned academic credit hours from another college or university and transfer in at least three courses that were equated as Foundations of the Discipline courses with a C- or higher from different fields. You are required to complete UF 200.
- UF 100 **and** UF 200 is not required if you:
  - Transfer from a U.S. regionally accredited academic institution and have earned an academic AA or AS degree.
  - Transfer from a U.S. regionally accredited academic institution and have completed the equivalent of State Board of Education General Education Matriculation requirements (but have not completed an AA or AS).

## Academic Advising at Boise State

Academic advisors guide students in exploring academic skills, values, and priorities to help them achieve their educational and career goals.

Academic advising at Boise State includes:

- ongoing contact with informed and supportive faculty, staff, and peer advisors,
- required advising appointments for first-semester students prior to registration for second-semester courses,
- degree planning, including introduction to and explanation of academic requirements, policies, and procedures,
- referral to student-support resources,
- exploration of academic skill-building resources and success strategies for timely graduation, and
- examination of the relationship between academic major and career goals.

Academic advising services at Boise State are available through three primary sources: the Advising and Academic Support Center (AASC), college-based and program-based advising offices, and department faculty.

AASC provides direct academic advising services (major exploration, course scheduling, and interventions for academic difficulties) and academic success programming (academic coaching, learning assistants, tutoring resources). AASC's advising services focus on undeclared students, students exploring potential new majors, and those experiencing academic challenges. AASC academic support services are open to all students regardless of class level and major.

College-based advising offices partner with academic departments to provide advising services to majors within the college. Depending on the department, faculty academic advising tends to focus on upper-division students, however, faculty are available to all students for ongoing guidance and mentorship within their disciplines.

### How to Connect with Your Academic Advisor

All new students are assigned an academic advisor. Undeclared students will meet with major exploration advisors at AASC. Please visit <https://www.boisestate.edu/aasc/find-advisor/aasc-advising/>, call (208) 426-4049, or email [academic@boisestate.edu](mailto:academic@boisestate.edu) to make an appointment.

Students with a declared major will meet with an advisor in their college or department. To view advising contacts by major, go to <https://www.boisestate.edu/aasc/find-advisor/aasc-advising/> or log into your myBoiseState Student Center (<https://my.boisestate.edu/>) and locate your advisor on the right side of the page. Click the details link for contact information.

## Degree Tracker

Graduating in a timely manner is a top priority at Boise State. Degree Tracker is a planning tool available in the Student Center to assist you and your advisor in sequencing courses toward degree completion. Degree Tracker presents a personalized academic plan based on your major and transcript. The entire academic path is mapped out, from day one to graduation. You and your advisor have the same ability to access and update information in your Degree Tracker profile via your Student Center on myBoiseState (<https://my.boisestate.edu/>). You may enroll in classes directly from the suggested Degree Tracker plan. Please refer to the Academic Advisement Report (AAR) and the Registrar's Office as the authoritative sources to ensure all requirements are met in order for a degree to be awarded.

## Additional Baccalaureate Degrees

If you have earned a baccalaureate degree, either at Boise State or elsewhere, you must complete at least 30 additional upper-division credits for each additional degree you wish to earn. Those 30 credits must be earned at Boise State. In addition, you must meet all the course requirements in your major and meet any other requirements of the university. The Multidisciplinary Studies BA degree completion program and the general Associate of Arts or Associate of Science are unavailable for students seeking additional bachelor's degrees.

To determine what requirements you need to complete, take a copy of your transcript(s) to the department chair of your major. The chair will review your transcript(s) and compile a list of courses you must complete at Boise State to earn the additional degree. Your major may require that the dean of the college also approve this list. A copy of the approved list must be sent to the graduation evaluators in the Registrar's Office. You do not have to meet the University Foundations Program requirements (for details, see page 49), though you may have to take University Foundations courses required for your major.

Note: If you already have a baccalaureate degree and you are pursuing graduate studies, you must apply for admission to Boise State through the Graduate College, Riverfront Hall, Room 307, (208) 426-3903. If you already have a baccalaureate degree and will be taking undergraduate courses, you need to apply through Admissions, located on the first floor of the Student Union Building, (208) 426-1156.

## Admission to Upper-Division

To enroll in upper-division courses (those numbered 300 to 499), you must have completed all course prerequisites and have met all other requirements of your department or college. In most instances, you must also have attained junior standing. If you are a sophomore, you may enroll in upper-division courses with the permission of the department, provided that you have completed all course prerequisites. Some academic programs require students to be formally admitted to the major before they may enroll in upper-division courses. To determine if this policy applies to your major, consult the requirements specified for your major in Chapter 12—*Academic Programs and Courses*.

## Catalog Policy

In determining if you have met the requirements to graduate, the Registrar's Office follows the requirements defined in a single edition of the university catalog. A new catalog is published each year. In some cases, requirements change from one edition to another. You may select any edition of the catalog, provided that the catalog was published and was in force while you were enrolled at Boise State and provided that the catalog is no older than six academic years at the time of your graduation.

If you wish to change your catalog, contact the Registrar's Office, Administration Building, Room 110, (208) 426-4249 or [degreeprogress@boisestate.edu](mailto:degreeprogress@boisestate.edu). If you have already applied for graduation and need to change your catalog, email [degreeprogress@boisestate.edu](mailto:degreeprogress@boisestate.edu).

## Course Prerequisite

A prerequisite is a course (or courses) that you must have successfully completed before you can enroll in another course. For instance, before you can enroll in SPAN 102 Elementary Spanish II, you must first have completed SPAN 101 Elementary Spanish I. If a course has a prerequisite, the prerequisite is listed in Chapter 12—*Academic Programs and Courses* or in the online course search.

Students must complete prerequisites listed in the catalog descriptions with a grade of C- or better prior to enrolling in the course, unless otherwise specified by the department. Requests to waive certain course prerequisites may be approved by the department offering the course. Requests must be justified based on background, education, or experience.

## Credit for Prior Learning

**Experiential Learning** Many colleges and universities, including Boise State, accept satisfactory performance on national standardized examinations, satisfactory performance on locally written examinations, or satisfactory evaluation of other training and experience as alternatives by which you may satisfy certain general education, specific course, or major requirements.

You may earn up to one-third of your total credits required for graduation (40 credits for a baccalaureate degree and 20 credits for an associate degree) in a combination of all forms of experiential learning (portfolio, challenge, CLEP credit, AP credit, DSST credit, Credit for Prerequisites Not Taken, ACE Guide credit, military credit, etc.). No more than one-quarter may be earned in portfolio credit (30 credits for a baccalaureate degree and 15 credits for an associate degree). Credits earned through any form of experiential learning/prior learning shall not count toward the 30-credit graduation residency requirement or as a repeat of another course.

Students must be currently enrolled at Boise State to apply for prior learning credits.

You can earn credits required for graduation by receiving credit for prior learning in the following ways:

- satisfactory performance on approved national standardized examinations, departmental examinations, or evaluations,
- military training and experience,
- other training programs recognized and evaluated by the American Council on Education, and
- credit granted through a prior learning portfolio (described below).

Specific course equivalencies and credits awarded are determined by academic departments. Credit may be awarded for specific courses or as general elective credit. In granting credit for prior learning, Boise State generally will follow the guidelines provided by the American Council on Education (ACE). Credits awarded through The ACE Guide recommendations and national standardized tests (CLEP, AP, etc.) are recorded with a grade of P (Pass) after the tenth day of the first term of enrollment. Credits earned through any form of experiential learning may not be used to repeat a class previously graded.

A detailed list of all the types of prior learning for which you may receive credit is available at <https://www.boisestate.edu/registrar/transfers/prior-learning-credit/>. More information about prior learning credit is available through the Registrar's Office, Administration Building, Room 110, (208) 426-4249.

The following is a brief review of the prior learning credit that is available:

- **Advanced Placement Exams (AP)** are administered nationally each year in May, primarily at participating high schools. The exams are the culminating exercise for high school students taking honors or advanced courses that parallel standard college-level courses. AP scores and Boise State course equivalencies are found online <https://www.boisestate.edu/registrar/transfers/prior-learning-credit/>.
- The **College Level Examination Program (CLEP)** consists of general and subject exams in a variety of subject areas. The general exams measure college-level achievement in five areas: English composition, natural sciences, social sciences and history, mathematics, and humanities. The subject exams test achievement in more specific college-level subjects.
- **DSST Exams** allow you to receive college credits for learning acquired outside the traditional classroom. These are similar to CLEP subject exams in that they test achievement in college-level subjects.
- **International Baccalaureate Diploma Programme Examinations.** The IBO's Diploma Programme (DP) is a demanding course of study that leads to culminating exams for highly motivated high school students. A minimum score of 4 or higher is required to receive credit.

## OBTAINING A DEGREE FROM BOISE STATE

### Course Challenge

If you feel that your background, education, and experience have given you sufficient knowledge in a subject area, you may challenge certain courses. That is, you may be able to receive credit for the course by passing a challenge exam. Each department selects the courses available for challenge and may develop screening procedures to determine if you are eligible to take the challenge exam. You may not challenge a course to improve a previous grade earned in that course.

After you have completed 12 semester credits at Boise State, and you have received permission from the appropriate academic department to register for a challenge exam, you must complete the form *Credit for Prior Learning—Challenge* and submit it to the Registrar's Office, Administration Building, Room 110. Fee information is available on the form. For departmentally prepared exams, the department determines the grading system. Grades may be recorded as either Pass or as a letter grade (A+ through C-). Grades of D+ or lower will not be transcribed. Before you take the exam, the department will tell you what type of grading is available.

### Credit for Prerequisites Not Taken

Depending on your background or experience, you may be allowed to take some courses without first taking a prerequisite course. In some cases, you may also be able to receive credit for the prerequisite course. To take a course without first taking the prerequisite, you must obtain the approval of the head of the appropriate academic department. Complete the form *Credit for Prior Learning—Credit for Prerequisites Not Taken* and submit it to the Registrar's Office, Administration Building, Room 110. Fee information is available on the form. Grading will be done on a Pass/Fail system. Only Pass grades will be transcribed. Grades will be transcribed if/when you complete the advanced course and earn a grade of C- or higher. Academic departments determine which courses can qualify for this credit.

### Military Training Credit

You may receive credit for selected military training or experience. To do so, you must provide the Registrar's Office with a copy of your Joint Services transcript or similar official documents. If you have completed two or more years of active military service, you may also request that the Boise State Military Science department evaluate your military service for possible credit toward the ROTC Basic Course. Credit for the ROTC Basic Course is only awarded to those who have committed to pursuing the ROTC Advanced Course.

### Other Training Programs

With Registrar approval, you may earn credit for training programs listed in the *National Guide to College Credit for Workforce Training*, published by the American Council on Education, go to <http://www2.acenet.edu/credit/?fuseaction=browse.main>.

### Prior Learning Portfolio

Credit for prior learning experience is also possible in some departments through development of a formal, professional, written portfolio. The portfolio outlines, in-depth, the knowledge you have gained outside the college classroom and shows the relationship to college-level learning. Assessment of portfolios and credit recommendations is determined by the academic department in which the credit is being requested. Fee information is available on the *Credit for Prior Learning Form*. For further information on this process, contact the Registrar's Office, Administration Building, Room 110, (208) 426-4249. For further information on specific applications, contact the appropriate academic department.

## Credit Limitations

### Extension and Correspondence Courses

You may count toward graduation as many as 30 credits of extension or correspondence courses. However, your department may further limit the type and number of these credits that you can count toward your major. If you wish to count an extension or correspondence course toward degree requirements, you must complete the course and have an official transcript sent to the Registrar's Office by midterm of the semester in which you intend to graduate.

### BroncoFit Activity Courses

BroncoFit activity courses (BRNCOFIT) are offered by the Department of Kinesiology. The goal of the Kinesiology BRNCOFIT Activity Program is to help students in any major maintain an active lifestyle by providing instruction in a variety of activities designed to encourage lifelong physical activity and exercise. You may count toward graduation as many as 8 credits of BroncoFit activity courses.

### Independent Study

Any department offering a baccalaureate degree may offer independent study, which allows you to pursue a special interest in an area not covered by a regularly offered course. Independent study is designed to complement your major and is not intended to be used to complete requirements for a regularly offered course. You may not use independent study to improve a grade you received in a class. To participate in independent study, you must have attained junior standing and have a GPA of 2.0 or higher. If you are a junior or senior, you may take up to 4 credits of independent study in a semester, though you may take no more than 6 credits in a given academic year. You may apply no more than 9 credits of independent study toward your degree. If you are a freshman or sophomore in the Honors Program, you may take up to 4 credits of independent study in a semester, up to a total of 6 lower-division credits.

### Internships

Most departments provide the opportunity for you to participate in internships and receive academic credit for professional experience that is relevant to your major or field of study. You may apply up to 12 credits of internships toward your graduation requirements. Departments that offer internships have coordinators for these programs. More specific information about internships is available from your department.

### Religion Courses

You may count toward graduation as many as 8 credits of nonsectarian religion courses (e.g., Old or New Testament or The Bible as Literature). However, the courses must be taken at regionally accredited colleges or universities, and you may count the credits only as general elective credits.

### Service-Learning

Service-learning provides you with a way to link coursework with community projects. Through service-learning, you receive course credit for participating in service opportunities that are intentionally designed to promote learning and skill development while helping to meet community identified needs. More than 100 classes offer a service-learning experience within all of the colleges. In most classes, service-learning is fully integrated as a course component (assignment, case study, or project); in other classes it is optional.

To find the service-learning courses being offered, go to <https://www.boisestate.edu/servicelearning/sl-courses/>. Then use your Student Center to search the course prefix, find the service-learning section, and enroll for the service-learning class that you chose.

Some classes offer an additional course credit Service-Learning Lab for 45 hours of course-related service and reflection. In the Class Search Enrollment through the Student Center, the Service-Learning Lab will be designated by the base course prefix and number followed by the suffix SL (e.g., PSYC 310 base course; PSYC 310SL service learning lab). You may take up to three service-learning labs in a semester. You may apply no more than 9 service-learning lab credits to your degree.

All of these classes use service experiences as the basis for reflection papers, discussion, and other assignments. Instructors deliberately link the course content with the service experience in order for students to better understand course content. Service ranges from 10 to 45 hours and is at the discretion of the faculty member how the time will be integrated into the course schedule. For more information, contact the Service-Learning Office at (208) 426-1004 or at [servicelearning@boisestate.edu](mailto:servicelearning@boisestate.edu). There is no limit to the number of service-learning courses you can take.

For more information, contact the Service-Learning Office at (208) 426-1004 or visit the website at <https://boisestate.edu/servicelearning/> for course lists, FAQs, and resources for a successful service-learning experience.

### Undergraduate Enrollment in 500-Level Courses

If you are a senior, you may apply up to two 500-level (graduate) courses toward the credit requirements for an undergraduate degree. You may also count these courses toward the 40-credit requirement for upper-division courses. To count 500-level courses toward graduation, complete the form *Permit for Seniors to Take Graduate Courses*, available online at <https://www.boisestate.edu/registrar/home/student-forms/>.

### Undergraduate Research

Any department offering a baccalaureate degree may offer undergraduate research experience for credit, which creates an opportunity for you to investigate a question or concept by gathering and analyzing data and/or engaging in creative scholarly activity. Undergraduate research experience for credit is intended to complement your major, not to cover the content of a regularly offered course. To participate in undergraduate research you must have a GPA of 2.0 or higher. You may apply no more than 9 combined credit hours of independent study and undergraduate research toward your degree.

### Workshop Credits

You may apply up to 9 workshop credits toward your graduation requirements. However, your department may further limit the number of workshop credits you may apply toward your major.

### Double Majors

You may earn a single baccalaureate degree with more than one major if you satisfy all requirements for each major.

### Graduation Honors

You are awarded graduation honors when you receive your first baccalaureate degree, based on the scale shown in Table 10.6 below. Honors are based on all your semesters completed, and your final transcript remains the official record of any honors granted. However, to honor you at commencement, Boise State uses your cumulative grade-point average (GPA) at the end of either spring or summer for the December ceremony and the end of fall for the May ceremony.

Table 10.6  
Graduation Honors

| <i>Cumulative Grade-Point Average</i> | <i>Honor</i>    |
|---------------------------------------|-----------------|
| 3.500–3.749                           | Cum Laude       |
| 3.750–3.949                           | Magna Cum Laude |
| 3.950–4.000                           | Summa Cum Laude |

Note: All grades, including those that have been excluded from GPA calculation in accordance with the grade exclusion policy, will be used to calculate graduation honors.

## How to Apply for Graduation

Apply for graduation by logging on to your myBoiseState Student Center account. For further instruction on where and how to apply online, see <https://www.boisestate.edu/registrar/apply-for-graduation/>. A nonrefundable graduation application fee must be paid when applying. The application fee is \$20.00 for undergraduate degrees, undergraduate certificates, and graduate certificates, and \$25.00 for Master's/Doctoral candidates. This fee covers the cost of your printed diploma and diploma cover. If you are earning two degrees at the same time, you must pay the fee for each degree.

The application deadline is the end of the first week of the semester you intend to graduate (see the Academic Calendar for the exact date). A late fee will be applied after the application deadline of \$20.00 for undergraduate degrees, undergraduate certificates, and graduate certificates, and \$25.00 for Master's/Doctoral candidates. The last day to apply for graduation with a late fee is the last day of classroom instruction.

To ensure your candidacy, please review your degree information on myBoiseState (<https://my.boisestate.edu/>) with your academic advisor. A graduation evaluator will review your Academic Advisement Report (AAR). It takes approximately six weeks to review all applications for graduation. Upon review of your application, you will receive an email notifying you of your graduation status. You will be considered a valid candidate if you are enrolled in all outstanding requirements.

Note: All graduating students must pay the graduation application fee, regardless of whether you intend to participate in commencement and regardless of whether you wish to receive a diploma.

## Minors and Certificates

Chapter 11—*Summary of Programs and Courses* lists the certificates and minors available at Boise State, along with the degrees offered by Boise State. Certificates and minors are available in selected fields, as are endorsements in secondary education programs. Requirements for all certificates, endorsements, and minors are listed in Chapter 12—*Academic Programs and Courses*.

Notes on minors:

- A minor must be earned with a baccalaureate degree.
- For a minor to be officially recorded on your transcript, you must complete all required coursework in that minor before you receive your degree.
- Minors will not appear on your diploma.
- You may not earn a minor in the same field as your major.
- There must be at least 9 credits unique to the minor (e.g., not used by your major).
- Teaching endorsements are awarded by the Idaho State Department of Education and are not recorded on Boise State transcripts.
- Teaching endorsement minors do not certify you to teach. The endorsement for teaching is still awarded by the Idaho State Department of Education but a minor is awarded by Boise State and recorded on Boise State transcripts.

For general degree requirements of minors and certificates, see page 46.

## Transferring Credits to Boise State

Transferring credits is a process by which some or all of the credits you have earned at another institution of higher learning are applied toward your degree at Boise State. The Registrar's Office evaluates your transcript to determine if the courses you have taken elsewhere are equivalent to courses offered at Boise State. If a course you have taken is equivalent, you can count toward graduation the credits earned in that course, just as if you had earned those credits at Boise State. If the course is not equivalent, those credits count as general elective credits. Credits are only transferred if you are seeking your first baccalaureate degree.

Boise State accepts college-level academic credit, if those credits were granted by institutions accredited by regional accrediting associations, as reported in *Database of Accredited Postsecondary Institutions and Programs* by the Office of Postsecondary Education). If you earn credits from an institution not listed in *Database of Accredited Postsecondary Institutions and Programs*, you may still be able to transfer those credits to Boise State. In such cases, the department offering similar courses will review the credits you wish to transfer and will decide which credits, if any, to accept. You may request this department approval after you have completed 15 credits at Boise State, with a cumulative GPA in those courses of 2.0 or higher.

As a transfer student, you are required to:

- complete a minimum of 15 credits at Boise State for an associate degree
- complete a minimum of 30 upper-division credits at Boise State for a baccalaureate degree.

For purposes of counting lower- or upper-division credit required for graduation, the university uses the course number of the transferring institution. If the course is considered lower-division by the transfer institution, it will be considered lower-division at Boise State. If the course is considered upper-division at the transfer institution, then the course will be counted toward meeting the upper-division requirement for graduation purposes. See General Degree Requirements for details on minimum upper-division credits needed for obtaining a degree.

## Core Certification

You may be considered core certified if you:

1. earned an academic associate degree (not an associate of applied science) from a regionally accredited institution and do not exceed Boise State's policy limit for experiential learning.
2. transfer without an academic associate degree, but meet Idaho State Board of Education General Education Matriculation (GEM) requirements and have a minimum of thirty-six (36) GEM course semester credit hours.

If you are core certified, all foundation discipline requirements except for those courses that are specifically required by the major are considered fulfilled. The statement "General University Core Met" will appear on your transfer credit report and your Academic Advisement Report.

Table 10.7  
Idaho State Board of Education General Education  
Matriculation (GEM) Requirements

| <i>Category</i>  | <i>Course Requirement</i> | <i>Credit Requirement</i> |
|--|---------------------------|---------------------------|
| Written Communication  | 2                         | 6                         |
| Oral Communication   | 1                         | 2                         |
| Mathematical Ways of Knowing   | 1                         | 3                         |
| Scientific Ways of Knowing (from two different disciplines with at least one laboratory or field experience) | 2                         | 7                         |
| Humanistic and Artistic Ways of Knowing (from two different disciplines)                                     | 2                         | 6                         |
| Social and Behavioral Ways of Knowing (from two different disciplines)                                       | 2                         | 6                         |
| Institutionally-designated or additional GEM category credits  | 2                         | 6                         |
| Total  | 12                        | 36                        |

## International Credit Evaluation

Boise State requires that transcripts from international institutions be evaluated by an academic credential evaluation service before transfer credit is evaluated and posted. There are two options for evaluation:

1. student orders evaluation before attending Boise State
2. Boise State orders an evaluation during your first semester

Boise State only accepts courses with grades of C- or higher. All courses are transferred in with a grade of pass. If you have completed the equivalent of a U.S. bachelor's degree, your transcripts will not be evaluated. Guidelines on international transfer credit, including accepted evaluation companies, can be found on the Registrar's website: <https://www.boisestate.edu/registrar/transfers/international-credit-evaluation/>. If you have questions about the international transfer credit process, contact the Registrar's Office at (208) 426-4249 or at [degreeprogress@boisestate.edu](mailto:degreeprogress@boisestate.edu).



## How to Read a Degree Requirements Table

The following information is provided to supplement the general degree requirements specified above.

One of the most important purposes of this catalog is to tell you what requirements you must meet to earn a particular degree at Boise State. To learn about these requirements, you will need to read carefully two parts of this catalog:

Chapter 10—*Obtaining a Degree at Boise State University* explains the general requirements for all undergraduate degrees.

Chapter 12—*Academic Programs and Courses* is devoted to the department or other academic unit that offers the degree you are interested in obtaining. You will find the section relevant to your degree which explains the specific requirements for the degree. As you plan your academic career, you should be able to use your major degree box to keep track of your degree requirements. To assist students and advisors in sequencing courses toward degree

completion, a planning tool called Degree Tracker presents a personalized, multi-term degree plan based on a student's major and progress. You can find Degree Tracker by logging into myBoiseState (<https://my.boisestate.edu/>). Other useful information may be available from the department offering your major. In addition, your advisor can assist you in creating a schedule for your academic work. Ideally, that schedule will enable you to meet all the requirements shown in the degree requirements table, and to do so in a logical, coherent sequence that takes into account your particular circumstances.

The table below is a typical degree requirements table. You should carefully review this table and the explanations of its elements before you begin planning how you will meet the requirements for your degree. And, as mentioned above, you should consult with your advisor and with other faculty members within the department offering your major.

College First-Year Writing Requirement (FW), see page 47.

FN courses from two different fields, see page 48.

Finishing Foundations (FF) requirement, see page 50.

All baccalaureate degrees require at least 40 credit hours of upper-division courses. Some majors fulfill this automatically, but this major does not. So, you may need to take additional upper-division courses chosen from any discipline.

| Social Science<br>Bachelor of Science  |         |
|--|---------|
| Course Number and Title  | Credits |
| University Foundations requirements indicated in <b>bold</b> . See page 48 for details and lists of approved courses.  |         |
| <b>UF</b> 100 Foundations of Intellectual Life   | 3       |
| <b>UF</b> 200 Foundations of Ethics and Diversity  | 3       |
| <b>FW</b> ENGL 101 Writing and Rhetoric I  | 3       |
| <b>FW</b> ENGL 102 Writing and Rhetoric II   | 3       |
| <b>FC</b> Foundations of Oral Communication  | 3       |
| <b>FM</b> Foundations of Mathematics course  | 3-4     |
| <b>FN</b> Foundations of Natural, Physical, & Applied Sciences course with lab   | 4       |
| <b>FN</b> Foundations of Natural, Physical, & Applied Sciences course in a second field  | 3-4     |
| <b>FA</b> Foundations of Arts course   | 3       |
| <b>FH</b> Foundations of Humanities course   | 3-4     |
| <b>FS</b> SOC 101 Introduction to Sociology  | 3       |
| <b>FS</b> Foundations of Social Sciences course in a second field  | 3       |
| SOC 201 Theories of Society  | 3       |
| SOC 493 Internship or SOC 496 Independent Study  | 3       |
| <b>FF</b> SOC 498 Senior Seminar   | 3       |
| Methods course:<br>GENDER 302 Research Methods and Perspectives<br>POLS 398 Advanced Political Science Methods<br>PSYC 321 Research Methods<br>SOC 311 Social Research<br>SOC 412 Qualitative Social Research Methods  | 3       |
| Statistics course:<br>POLS 298 Introduction to Political Inquiry<br>PSYC 295 Statistical Methods<br>SOC 310 Elementary Social Statistics   | 3       |
| Upper-division first social science field*   | 9       |
| Upper-division second social science field*<br>*Select from the following for first and second fields of study: anthropology, communication, criminal justice, economics, environmental studies, gender studies, global studies, history, political science, psychology, sociology and urban studies. Only three (3) credit hours in each field may be workshops, special topics, independent study courses, or internships. | 9       |
| Upper-division electives to total 40 credits   | 10-13   |
| Electives to total 120 credits   | 34-40   |
| Total  | 120     |

Foundations of Oral Communication (FC) requirement, see page 50.

Mathematics Requirement (FM), see page 47.

Foundation Discipline (FM, FN, FA, FH, FS) requirements, see page 49. Some degrees require specific Foundations courses, which fulfill the Foundations and major requirement.

Each table will contain either a group of courses (which are all required) or a list of courses from which you must choose one or more.

You must complete at least 120 credits for any baccalaureate degree. A few majors fulfill this automatically, but for this most majors you will need to take some additional electives. For restrictions on these elective credits, see page 52.

# Chapter 11—Summary of Programs and Courses

Table 11.1 Majors and Degrees Offered at Boise State University

|  |     |  |     |
|--|-----|--|-----|
| Accountancy BBA .....  | 62  | Global Studies BA .....  | 177 |
| Anthropology BS .....  | 64  | International Relations Emphasis .....                             | 177 |
| Applied Mathematics BS .....   | 223 | Sustainable Futures Emphasis .....                                 | 178 |
| Statistics Emphasis .....  | 224 | World Cultures Emphasis .....                                      | 178 |
| Art Education, K-12 or 6-12 BFA .....  | 70  | World Economics Emphasis .....                                     | 178 |
| Associate of Arts (AA) .....   | 78  | Graphic Design BFA .....   | 71  |
| Associate of Science (AS) .....  | 78  | Health Studies BS .....  | 103 |
| Bachelor of Applied Science (BAS) .....  | 79  | General Emphasis .....   | 104 |
| Biology BS .....   | 80  | Health Informatics and Information Management Emphasis .....       | 104 |
| Cellular, Molecular, and Biomedical Emphasis .....   | 81  | Science Emphasis .....   | 104 |
| Ecology, Evolution, and Behavior Emphasis .....  | 81  | History BA .....   | 180 |
| Secondary Education Emphasis .....   | 81  | History of Art and Visual Culture BA .....                         | 72  |
| Blended Early Childhood/Early Childhood Special Education BA .....                               | 135 | History, Multidisciplinary, Secondary Education BA .....           | 182 |
| Business Administration BBA .....  | 214 | History, Social Studies, Secondary Education BA .....              | 181 |
| Business and Economic Analytics BS .....   | 190 | Human Resource Management BBA .....                                | 215 |
| Business Economics BBA .....   | 142 | Illustration BFA .....   | 71  |
| Chemistry BS .....   | 88  | Imaging Sciences BS .....  | 274 |
| ACS Certified Biochemistry Emphasis .....  | 88  | Inclusive Early Childhood Education BA .....                       | 136 |
| ACS Certified Professional Emphasis .....  | 88  | Information Technology Management BBA .....                        | 191 |
| Biochemistry Emphasis .....  | 88  | Interdisciplinary Studies BA, BS .....                             | 199 |
| Forensics Emphasis .....   | 88  | International Business BBA .....                                   | 215 |
| Secondary Education Emphasis .....   | 88  | K-12 Physical Education BS .....                                   | 200 |
| Civil Engineering BS .....   | 91  | Kinesiology BS .....   | 201 |
| Secondary Education Emphasis .....   | 92  | Biomechanics Emphasis .....  | 201 |
| Communication BA .....   | 95  | Exercise Science Emphasis .....                                    | 201 |
| Computer Science BS .....  | 113 | Pre-Allied Health Emphasis .....                                   | 201 |
| Cybersecurity Emphasis .....   | 113 | Pre-Athletic Training Emphasis .....                               | 202 |
| Entrepreneurship Emphasis .....  | 114 | Management BBA .....   | 216 |
| Machine Learning Emphasis .....  | 114 | Marketing BBA .....  | 221 |
| Secondary Education Emphasis .....   | 114 | Brand and Product Marketing Emphasis .....                         | 221 |
| Construction Management BS .....   | 119 | Marketing Communications Emphasis .....                            | 221 |
| Creative Writing BA .....  | 297 | Materials Science and Engineering BS .....                         | 229 |
| Creative Writing BFA .....   | 297 | Secondary Education Emphasis .....                                 | 230 |
| Criminal Justice BS .....  | 122 | Mathematics BS .....   | 224 |
| Dual Blended Early Childhood/Early Childhood Special Education,<br>Elementary Education BA ..... | 134 | Secondary Education Emphasis .....                                 | 224 |
| Dual Special Education, Early Childhood Special Education BA .....                               | 134 | Mechanical Engineering BS .....                                    | 233 |
| Dual Special Education, Elementary Education BA .....  | 136 | Secondary Education Emphasis .....                                 | 234 |
| Economics BA .....   | 142 | Media Arts BA .....  | 95  |
| Economics, Quantitative Emphasis BA .....  | 142 | Journalism and Media Studies Emphasis .....                        | 95  |
| Economics, Social Science, Secondary Education BA .....  | 143 | Public Relations Emphasis .....                                    | 95  |
| Educational Studies BA .....   | 129 | Television, Broadcast, and Digital Media Production Emphasis ..... | 96  |
| Electrical Engineering BS .....  | 146 | Multidisciplinary Studies BA .....                                 | 241 |
| Secondary Education Emphasis .....   | 147 | Music BA .....   | 245 |
| Elementary Education BA .....  | 126 | Music Composition BM .....   | 244 |
| Elementary Education TESOL BA .....  | 210 | Music Education BM .....   | 245 |
| Engineering BS .....   | 152 | Music Performance BM .....   | 243 |
| EngineeringPLUS Emphasis .....   | 152 | Bowed Strings Option .....   | 244 |
| Pre-Medical Emphasis .....   | 154 | Piano Option .....   | 244 |
| Secondary Education Emphasis .....   | 154 | Voice Option .....   | 244 |
| English Teaching BA .....  | 156 | Wind/Brass/Percussion Option .....                                 | 244 |
| English, Linguistics Emphasis BA .....   | 155 | Narrative Arts BFA .....   | 299 |
| English, Literature Emphasis BA .....  | 156 | Nursing BS .....   | 252 |
| English, Writing, Rhetoric, & Technical Comm Emphasis BA .....                                   | 157 | Philosophy BA .....  | 255 |
| Entrepreneurship Management BBA .....  | 214 | Ethics and Argument Emphasis .....                                 | 256 |
| Environmental Studies BA .....   | 163 | Physics BS .....   | 258 |
| Ethnic Studies BS .....  | 290 | Applied Physics Emphasis .....                                     | 259 |
| Film and Television Arts BA .....  | 298 | Astrophysics Emphasis .....  | 259 |
| Film and Television Arts BFA .....   | 298 | Biophysics Emphasis .....  | 259 |
| Finance BBA .....  | 166 | Secondary Education Emphasis .....                                 | 259 |
| French BA .....  | 312 | Political Science BS .....   | 262 |
| French, Secondary Education BA .....   | 312 | American Government and Public Policy Emphasis .....               | 262 |
| Games, Interactive Media, and Mobile BS .....  | 168 | International Relations and Comparative Politics Emphasis .....    | 262 |
| Geosciences BS .....   | 171 | Public Law and Political Philosophy Emphasis .....                 | 262 |
| Geology Emphasis .....   | 171 | Political Science, Social Science, Secondary Ed Emphasis BS .....  | 263 |
| Geophysics Emphasis .....  | 171 | Psychology BS .....  | 269 |
| Hydrology Emphasis .....   | 172 | Public Health BA .....   | 106 |
| Secondary Education Emphasis .....   | 172 | Public Health BS .....   | 104 |
| German BA .....  | 313 | Environmental and Occupational Health and Safety Emphasis .....    | 104 |
| German, Secondary Education BA .....   | 313 | General Emphasis .....   | 106 |
|  |     | Health Education and Promotion Emphasis .....                      | 106 |

|   |     |  |     |
|---|-----|--|-----|
| Public Relations .....                                  | 96  | Special Education BA .....                       | 136 |
| Public Relations BS .....                               | 275 | Supply Chain Management BBA .....                | 191 |
| Computed Tomography Emphasis .....                      | 275 | Theatre Arts BA .....                            | 300 |
| Diagnostic Medical Sonography Emphasis .....            | 275 | Urban Studies and Community Development BA ..... | 306 |
| Diagnostic Radiology Emphasis .....                     | 275 | Visual Art BA .....                              | 67  |
| Magnetic Resonance Imaging Emphasis .....               | 276 | Visual Art BFA .....                             | 68  |
| Respiratory Care BS .....                               | 280 | Art Jewelry and Metalsmithing Emphasis .....     | 68  |
| Social Science AA .....                                 | 288 | Ceramics Emphasis .....                          | 68  |
| Social Science BS .....                                 | 288 | Drawing and Painting Emphasis .....              | 68  |
| Social Work BA .....                                    | 285 | Interdisciplinary Art Studio Emphasis .....      | 69  |
| Sociology BS .....                                      | 288 | Photography Emphasis .....                       | 69  |
| Sociology, Social Science, Secondary Education BA ..... | 290 | Printmaking Emphasis .....                       | 69  |
| Spanish BA .....  | 314 | Sculpture Emphasis .....                         | 69  |
| Spanish, Secondary Education BA .....                   | 314 |  |     |

Table 11.2 Minors Offered at Boise State University

|   |     |   |     |
|---|-----|---|-----|
| Accountancy .....                             | 62  | Iberian Studies .....                         | 316 |
| Addictions Studies .....                      | 285 | Industrial Engineering .....                  | 189 |
| American Sign Language .....                  | 315 | Information Technology Management .....       | 192 |
| Anthropology .....                            | 64  | International Business .....                  | 216 |
| Applied Mathematics .....                     | 225 | Japanese Studies .....                        | 316 |
| Arabic Studies .....                          | 316 | Journalism .....                              | 96  |
| Arts Entrepreneurship .....                   | 77  | Korean Studies .....                          | 316 |
| Basque Studies .....                          | 315 | Labor Studies .....                           | 291 |
| Biological Science Teaching Endorsement ..... | 82  | Latin .....                                   | 316 |
| Biology .....                                 | 82  | Latin American and Latino/a Studies .....     | 316 |
| Biomedical Engineering .....                  | 78  | Linguistics .....                             | 158 |
| Business Bridge to Career .....               | 86  | Marketing .....                               | 222 |
| Canadian Studies .....                        | 264 | Materials Science and Engineering .....       | 230 |
| Chemistry .....                               | 88  | Mathematics .....                             | 225 |
| Chemistry Teaching Endorsement .....          | 88  | Mathematics Teaching Endorsement .....        | 225 |
| Chinese Studies .....                         | 315 | Media Studies .....                           | 96  |
| Climate Studies .....                         | 172 | Mexican-American Studies .....                | 291 |
| Communication .....                           | 96  | Military Science .....                        | 239 |
| Computational Science and Engineering .....   | 112 | Music .....                                   | 246 |
| Computer Science .....                        | 114 | Native American and Indigenous Studies .....  | 64  |
| Construction Management .....                 | 120 | Nonprofit Management .....                    | 217 |
| Creative Writing .....                        | 301 | Philosophy .....                              | 256 |
| Criminal Justice .....                        | 123 | Physical Science Teaching Endorsement .....   | 259 |
| Critical Theory .....                         | 124 | Physics .....                                 | 259 |
| Cybersecurity .....                           | 114 | Physics Teaching Endorsement .....            | 259 |
| Dance .....                                   | 301 | Political Communication .....                 | 264 |
| Data Science for the Liberal Arts .....       | 132 | Political Management .....                    | 264 |
| Earth Science Teaching Endorsement .....      | 172 | Political Science .....                       | 264 |
| Economics .....                               | 143 | Professional Communication Skills .....       | 97  |
| Electrical Engineering .....                  | 147 | Psychology .....                              | 270 |
| English .....                                 | 157 | Refugee Studies .....                         | 183 |
| English Literature .....                      | 158 | Rhetoric and Advocacy .....                   | 284 |
| Entrepreneurship Management .....             | 216 | Romance Languages .....                       | 316 |
| Environmental Studies .....                   | 164 | Social and Cultural Advocacy .....            | 97  |
| Ethics and Argument .....                     | 256 | Sociology .....                               | 290 |
| Ethnic Studies .....                          | 290 | Spanish .....                                 | 317 |
| Family Studies .....                          | 269 | Spanish for Business .....                    | 317 |
| Film and Television Arts .....                | 301 | Spanish Interpretation .....                  | 317 |
| Finance .....                                 | 166 | Supply Chain Management .....                 | 192 |
| French .....                                  | 315 | Sustainability .....                          | 296 |
| French for Business .....                     | 315 | Theatre Arts .....                            | 301 |
| Gender Studies .....                          | 170 | Urban Studies and Community Development ..... | 307 |
| Geology .....                                 | 172 | User Experience Research .....                | 309 |
| Geophysics .....                              | 173 | Visual Art .....                              | 72  |
| Geospatial Information Analysis .....         | 173 | Workplace Communication .....                 | 97  |
| German .....                                  | 315 | Writing for Change Minor .....                | 158 |
| German for Business .....                     | 315 |   |     |
| Gerontology .....                             | 105 |   |     |
| Global Studies .....                          | 179 |   |     |
| Health Data Management .....                  | 105 |   |     |
| History .....                                 | 183 |   |     |
| History of Art and Visual Culture .....       | 72  |   |     |
| Human Resource Management .....               | 216 |   |     |
| Hydrology .....                               | 173 |   |     |

Table 11.3 Certificates

|  |     |
|--|-----|
| American Sign Language, Elementary, Intermediate .....               | 317 |
| Applied Leadership—Growing into a High-Impact Leader .....           | 208 |
| Applied Public Administration .....                                  | 66  |
| Arabic, Elementary, Intermediate .....                               | 317 |
| Basque Cultural Studies .....  | 317 |
| Basque, Elementary, Intermediate .....                               | 318 |
| Biomedical Engineering .....   | 234 |
| Biomedical Instrumentation .....                                     | 147 |
| Business Analytics .....   | 192 |
| Business Bridge to Career .....                                      | 86  |
| Chinese, Mandarin, Elementary, Intermediate .....                    | 319 |
| Communication Management .....                                       | 97  |
| Community and Career Readiness Studies .....                         | 139 |
| Computational .....  | 234 |
| Computed Tomography .....  | 276 |
| Conflict Management .....  | 118 |
| Cyber Operations .....   | 147 |
| Cyber-Physical Systems Security for All .....                        | 147 |
| Data Science Certificate .....                                       | 115 |
| Data Science for the Liberal Arts .....                              | 132 |
| Diagnostic Medical Sonography .....                                  | 276 |
| Digital Media .....  | 98  |
| Early Childhood Intervention Services .....                          | 137 |
| Energy/Environment .....   | 234 |
| Engineering Design .....   | 153 |
| French, Elementary, Intermediate .....                               | 318 |
| German, Elementary, Intermediate .....                               | 318 |
| Habilitative Services .....  | 138 |
| Health Data Management .....   | 105 |
| Human Rights .....   | 189 |
| HVAC/Building Systems .....  | 234 |
| Industrial Processes .....   | 234 |
| Innovation and Design—Emerging Applications (IDEA) .....             | 195 |
| Inquiry-Based Early Childhood Education .....                        | 138 |
| Japanese, Elementary, Intermediate .....                             | 318 |
| Korean, Elementary, Intermediate .....                               | 318 |
| Latin, Elementary, Intermediate .....                                | 318 |
| Latinx Community Engagement .....                                    | 319 |
| Leadership and Human Relations .....                                 | 208 |
| Magnetic Resonance Imaging .....                                     | 277 |
| Mechanical Design .....  | 234 |
| Mechanical Materials .....   | 235 |
| Mechatronics .....   | 235 |
| Media Content Management .....                                       | 98  |
| Narrative Arts .....   | 301 |
| Nonprofit Management .....   | 217 |
| Portuguese, Elementary, Intermediate .....                           | 319 |
| Principles of Grant Development and Proposal Writing .....           | 105 |
| Public Health .....  | 106 |
| Public Relations .....   | 98  |
| Security in Cyber-Physical Systems—Hardware and Firmware Focus ..... | 147 |
| Security in Cyber-Physical Systems—Industrial Control Focus .....    | 147 |
| Security in Cyber-Physical Systems—Power Systems Focus .....         | 148 |
| Security in Cyber-Physical Systems—Software Focus .....              | 148 |
| Solid Mechanics .....  | 235 |
| Spanish, Elementary, Intermediate .....                              | 319 |
| Special Education Services .....                                     | 138 |
| Sport Coaching .....   | 202 |
| Sport, Information, and Culture .....                                | 98  |
| Technical Communication .....  | 158 |
| Thermal-Fluids .....   | 235 |
| User Experience Research .....                                       | 309 |
| User Research (UX) Professional .....                                | 309 |
| UX Design .....  | 195 |

## University-Wide Course Numbers

Some course numbers have been made standard throughout the university, indicating a particular type of course. Each standard course number is defined below.

**97, 197, 297, 397, and 497 SPECIAL TOPICS (Variable 0-4)(F/S/SU).** Special topics courses address special or unusual material not covered by the regular course offerings. Course topics may be offered no more than three times; after that, the course must be approved by the Curriculum Committee before it can be offered again. Credits earned in courses numbered 197, 297, 397, or 497 count toward the total credits required for graduation. May be repeated for credit. Either graded or pass/fail.

**239, 439 FOREIGN STUDY (Variable 1-4)(F/S/SU).** Foreign study credits are granted by academic departments that participate in academic programs abroad. May be repeated for credit. Either graded or pass/fail. PREQ: PERM/INST.

**283, 479 UNDERGRADUATE RESEARCH EXPERIENCE (Variable 1-3)(F/S/SU).** Provides students with an opportunity for supervised research or creative work in the field of his/her interest. The research will involve inquiry, investigation, discovery, or application, and must be supervised by a faculty member. The student may work with a graduate student who is performing research supervised by a faculty member. May be repeated for credit. Either graded or pass/fail. PREQ: PERM/INST.

**293, 493 INTERNSHIP (Variable 1-12)(F/S/SU).** Internship credits are earned in supervised fieldwork specifically related to a student's major. To enroll in courses numbered 293 or 493, a student must have attained a cumulative grade-point average of 2.00 or higher. No more than 12 credits of internship and/or Work U may be applied towards graduation requirements. May be repeated for credit. Either graded or pass/fail. PREQ: PERM/INST.

**493U WORK U (0-6-3)(F/S/SU).** Designed to provide students with professional experiences, regardless of their major. Students will develop their professional network alongside a mentor at a Treasure Valley employer. Time spent on site with employers and in a weekly class session. The class sessions are designed to unpack what the students are learning on the job, attend interactive workshops, engage with dynamic guest leaders from partner employers, and learn skills that translate directly to a professional setting. No more than 12 credits of Work U and/or internship may be applied towards graduation requirements. May be repeated for credit. Graded only. PREQ: PERM/INST.

**294, 494 CONFERENCE OR WORKSHOP (Variable 0-4)(F/S/SU).** Conferences and workshops are short courses conducted by qualified faculty or another expert in a particular field. No more than a total of 9 credits may be used to meet degree requirements or university graduation requirements. May be repeated for credit. Either graded or pass/fail.

**453 PROFESSIONAL EDUCATION (Variable 1-3)(F/S/SU).** Available at special fee rate (approximately one-third of part-time education fee). Student must be an Idaho public school teacher or professional employee of an Idaho school district. Credit awarded is for professional development only and cannot be applied toward a degree program. May be repeated for credit. Pass/fail only.

**496 INDEPENDENT STUDY (Variable 1-4)(F/S/SU).** Upper-division students may earn credits in independent study, usually through directed reading or by completing a special project. Students may earn no more than 4 credits in a semester and no more than 6 credits during a single academic year, and no more than a total of 9 credits may be used to meet degree requirements or university graduation requirements. Before enrolling for independent study, a student must obtain the approval of the department chair, acting on the recommendation of the instructor who will be supervising the independent study. An independent study cannot be substituted for a course regularly offered at Boise State, nor can independent study credits be used to improve a grade in a course the student has already taken. May be repeated for credit. Either graded or pass/fail. PREQ: PERM/INST.

**498, 499 SEMINAR (Variable 1-4)(F/S/SU).** A seminar is a small class that examines a particular topic. Seminars are typically discussion oriented and are most commonly offered at the junior, senior, or graduate level. May be repeated for credit. Either graded or pass/fail.

## Course Prefixes

Table 11.4 below, lists all the course prefixes used at Boise State. A course prefix is the two or more letter code preceding a course number; it indicates the subject area of the course.

Table 11.4 Course Prefixes

|  |     |  |     |   |     |
|--|-----|--|-----|---|-----|
| ACAD—Academic .....  | 61  | EDTECH—Educational Technology .....                            | 145 | MATH—Mathematics .....  | 225 |
| ACCT—Accountancy .....   | 62  | ENGL—English .....   | 159 | MDS—Multidisciplinary Studies .....                           | 241 |
| ADST—Addiction Studies .....                                       | 285 | ENGR—Engineering Science .....                                 | 153 | ME—Mechanical Engineering .....                               | 235 |
| AE—Arts Entrepreneurship .....                                     | 77  | ENTREP—Entrepreneurship Management .....                       | 219 | MEDIA—Media Arts .....  | 100 |
| ANTH—Anthropology .....  | 64  | ENVSTD—Environmental Studies .....                             | 164 | MEDIAPRO—Media Production .....                               | 101 |
| ARABIC—Arabic .....  | 320 | EOHS—Environmental and Occupational<br>Health and Safety ..... | 108 | MILSCI—Military Science .....                                 | 239 |
| ART—Art .....  | 73  | FILM—Film and Television Arts .....                            | 303 | MKTG—Marketing .....  | 222 |
| ARTHIST—Art History .....  | 75  | FINAN—Finance .....  | 166 | MSE—Materials Science and Engineering ..                      | 221 |
| ARTSCI—Arts and Sciences .....                                     | 78  | FREN—French .....  | 321 | MUS   MUSI—Music, General .....                               | 246 |
| ASL—American Sign Language .....                                   | 320 | GENDER—Gender Studies .....                                    | 170 | MUS-APL—Music Applied Performance<br>Classes, Recitals .....  | 248 |
| BAS—Bachelor of Applied Science .....                              | 79  | GENSCI—General Science .....                                   | 173 | MUS-ENS—Music, Ensemble .....                                 | 249 |
| BASQ-STD—Basque Studies .....                                      | 320 | GEOG—Geography .....   | 173 | MUS-PRV—Music-Private Lesson Performance<br>Studies .....     | 250 |
| BASQUE—Basque .....  | 320 | GEOL—Geology .....   | 174 | NONPROF—Nonprofit Management .....                            | 220 |
| BIOL—Biology .....   | 82  | GEOS—Geoscience .....  | 174 | NURS-RN—Nursing .....   | 254 |
| BOSNIAN—Bosnian .....  | 321 | GERM—German .....  | 322 | NURS—Nursing .....  | 253 |
| BOT—Botany .....   | 85  | GIMM—Games, Interactive Media, and Mobile<br>168               |     | PHIL—Philosophy .....   | 256 |
| BRNCOFIT—Bronco Fit .....  | 202 | GLOBAL—Global Studies .....                                    | 179 | PHYS—Physics .....  | 259 |
| BUS—Business .....   | 217 | HEP—Health Education and Promotion .....                       | 108 | POLS—Political Science .....                                  | 264 |
| BUSBTC—Business Bridge to Career .....                             | 87  | HES—Human-Environment Systems .....                            | 196 | PORTUGUE—Portuguese .....                                     | 324 |
| BUSCOM—Business Communication .....                                | 222 | HIIM—Health Informatics and Information<br>Management .....    | 109 | PR—Public Relations .....                                     | 101 |
| BUSMGT—Management .....  | 218 | HIST—History .....   | 183 | PRO—Public Relations Online .....                             | 102 |
| BUSSTAT—Business Statistics .....                                  | 193 | HLTH—Health .....  | 109 | PSYC—Psychology .....   | 270 |
| CANSTD—Canadian Studies .....                                      | 264 | HONORS—Honors .....  | 188 | PUBADM—Public Administration .....                            | 66  |
| CE—Civil Engineering .....   | 92  | HRM—Human Resource Management .....                            | 219 | PUBH—Public Health .....                                      | 110 |
| CHEM—Chemistry .....   | 89  | HUM—Humanities .....   | 161 | RADSCI—Radiologic Sciences .....                              | 277 |
| CHINESE—Chinese, Mandarin .....                                    | 321 | IEPATH—Intensive English Pathway .....                         | 196 | REFUGEE—Refugee Services .....                                | 286 |
| CJ—Criminal Justice .....  | 123 | IMGSCI—Imaging Sciences .....                                  | 277 | RESCARE—Respiratory Care .....                                | 282 |
| CMGT—Construction Management .....                                 | 120 | INTBUS—International Business .....                            | 219 | SCM—Supply Chain Management .....                             | 194 |
| COID—College of Innovation and Design ..                           | 195 | INTDIS—Interdisciplinary Studies .....                         | 199 | SIC—Sport Innovation and Culture .....                        | 102 |
| COMM—Communication .....   | 98  | ISLE—Intensive Semester Learning<br>Experience .....           | 198 | SOC—Sociology .....   | 291 |
| CONFLICT—Conflict Management .....                                 | 118 | ITM—Information Technology Management .....                    | 193 | SOCWRK—Social Work .....                                      | 286 |
| COUN—Counseling .....  | 121 | JAPANESE—Japanese .....  | 323 | SPAN—Spanish .....  | 324 |
| CPS—Cyber Physical Security .....                                  | 148 | JOUR—Journalism .....  | 100 | SPS—School of Public Service .....                            | 272 |
| CRIT—Critical Theory .....   | 124 | KINES—Kinesiology .....  | 204 | STEM-ED—STEM Education .....                                  | 294 |
| CS-HU—Computer Science Hatchery Unit ..                            | 117 | KOREAN—Korean .....  | 323 | THEA—Theatre Arts .....                                       | 303 |
| CS—Computer Science .....  | 115 | LATIN—Latin .....  | 323 | UF—University Foundations .....                               | 306 |
| CW—Creative Writing .....  | 302 | LEAD—Leadership and Human Relations ..                         | 208 | URBAN—Urban Studies and Community<br>Development .....        | 307 |
| DATA-LA—Data Science-Liberal Arts .....                            | 132 | LIBR—Library Research Lower Division ...                       | 209 | UX—User Experience UX-PRO—User Research<br>Professional ..... | 309 |
| ECE—Electrical and Computer Engineering ..                         | 149 | LIBSCI—Library Science .....                                   | 212 | VIP—Vertically Integrated Projects .....                      | 310 |
| ECON—Economics .....   | 143 | LING—Linguistics .....   | 161 | WORLD—World Languages .....                                   | 326 |
| ED-CIFS—Curriculum, Instruction, and<br>Foundational Studies ..... | 129 |  |     | ZOOL—Zoology .....  | 85  |
| ED-ESP—Early and Special Education .....                           | 139 |  |     |   |     |
| ED-LLC—Literacy, Language, and Culture ..                          | 211 |  |     |   |     |

## How to Read a Course Description

### Course Description Key

Each course at Boise State has a course description that consists of a prefix, course number, title, credit code, semester code, additional information, content description, and list of requisites. These elements of the course description are described below.

- 1) **Course Prefix/Subject** The prefix indicates the department or academic unit offering the course. See Table 11.4 for a complete list of course prefixes.
- 2) **Course Numbering System** Each course offered is assigned a unique number, indicating what type of course it is and what sort of credits may be earned in the course. Throughout this catalog, you will find courses numbered as follows:
 

|         |  |
|---------|--|
| 00–99   | noncredit courses that do not count toward degree requirements |
| 100–199 | freshman-level courses (lower-division courses)                |
| 200–299 | sophomore-level courses (lower-division courses)               |
| 300–499 | junior- and senior-level courses (upper-division courses)      |
| 500–699 | graduate-level courses   |

Ordinarily, courses numbered below 500 carry undergraduate credit. However, the university sometimes grants graduate credit in select upper-division courses (those numbered 300 through 499). If an upper-division course carries graduate credit, its unique number will be followed by a G (for graduate). Students enrolling in such courses may earn either graduate or undergraduate credit; however, students who wish to earn graduate credit are required to do additional work beyond that required of students earning undergraduate credit.

Throughout the catalog, a hyphen appearing between course numbers indicates that the first numbered course is a prerequisite (PREREQ) to a second numbered course (e.g., ENGL 101-102); a comma between course numbers indicates that either course may be taken independently of the other (e.g., HIST 111, 112).

Cross-listed courses are courses offered by multiple departments or academic units.

Dual-listed courses are courses offered by an academic unit at both the 400-level and 500-level (e.g., ME 432 and ME 532).

- 3) **Course Title** The official title of the course.
- 4) **Credits** According to Idaho State Board of Education policy, forty-five (45) clock-hours of student involvement are required for each semester credit, which includes a minimum of fifteen (15) student contact hours for each semester credit.
 

The unique course number of each course is followed by a sequence of three numbers that indicate the number of lecture hours per week that the course meets, number of lab hours per week that the course meets,

and the number of credits a student earns by completing the course. The following examples show typical uses of these additional numbers:

- (3-0-3) a 3-hour lecture class carrying 3 credits
- (3-4-5) a 3-hour lecture class with a corresponding 4-hour laboratory class, carrying 5 credits
- (0-4-0) a 4-hour laboratory class that carries no credit
- (0-2-1) a 2-hour studio art class or fitness activity class, carrying 1 credit

Note: a V is used to indicate variable credits or hours.

- 5) **Semester Offered** The semester code indicates the semester(s) and/or term in which the course is offered and is expressed using letter codes F for fall semester, S for spring semester, and SU for summer term, with the full sequence of letter codes enclosed in parentheses. A comma or slash between letter codes is used to interpret combinations as illustrated in the following examples:

- F fall semester only
- S spring semester only
- SU summer session only
- F, S fall and spring semester
- F, SU fall semester and summer session only
- S, SU spring semester and summer session only
- F/S fall semester, spring semester, or both
- F/SU fall semester, summer session, or both
- S/SU spring semester, summer session, or both
- F, S, SU fall semester, spring semester, and summer session
- F/S/SU fall semester, spring semester, or summer session

If the semester code is not indicated, then the course is offered during the fall and spring semesters and summer session (although there may be some exceptions).

- 6) **Additional Information** Associated with the scheduling of the course or showing the special status of a course (can be used to satisfy university foundations requirements) may be given in parentheses after the semester offered. A course that is not offered regularly may be listed as On Demand, As Justified, or Intermittently.
- 7) **Requisites** The list of requisites specifies any prerequisites and/or co-requisites using the following abbreviations:
  - PREREQ: prerequisite (condition to be met before enrollment)
  - COREQ: co-requisite (condition met before or during enrollment)
  - PERM/INST: permission of instructor required to enroll
  - PERM/CHAIR: permission of department chair required to enroll

The most common type of prerequisite is a specific course that must be successfully completed prior to enrollment. Typically, a co-requisite is a laboratory course that must be taken during the same semester or term as a related science course.

PHYS<sup>1</sup> 111<sup>2</sup> GENERAL PHYSICS<sup>3</sup> (3-3-4)<sup>4</sup>(F, S, SU)<sup>5</sup>(FN)<sup>6</sup>. Kinematics, forces and dynamics, conservation laws, waves, thermodynamics. Uses algebra and trigonometry, and includes one required three-hour lab per week. Recommended background: high school physics or PHYS 101. PREREQ<sup>7</sup>: MATH 143 and MATH 144 or satisfactory placement score into MATH 170.

# Chapter 12—Academic Programs and Courses

## Academic (Student Success Courses)

*Advising and Academic Support Center (AASC)*

2055 Cesar Chavez Lane  
(208) 426-4049 (phone)  
academic@boisestate.edu (email)  
<https://www.boisestate.edu/aasc> (website)

### Course Offerings

#### ACAD—Academic

**ACAD 101 ACADEMIC SUCCESS TOPICS (V-0-V)(F, S, SU).** Focuses on the development of skills, attitudes and behaviors associated with academic success in college. Selected topics may include: transition to university life for specific groups of students (such as veterans, athletes, international students, high school students, and non-traditional students); exploration of campus resources and opportunities; time management and basic study skills; and math success strategies. Course, but not topics, may be repeated for up to five credits.

**ACAD 102 ACADEMIC RECOVERY AND SUCCESS (3-0-3)(F/S/SU).** Supports students in making satisfactory academic progress in their current courses and improving their cumulative GPAs by examining the behaviors and mindsets associated with academic success. Students will focus on goal setting, motivation, academic skill building, and time management skills needed to achieve their educational and personal goals.

**ACAD 107 PREPARING FOR ONLINE LEARNING (1-0-1)(F, S, SU).** Designed to help students acquire skills and knowledge in the areas of computer/Internet literacy, technology management, online communications, organization, and time management necessary for success in taking classes online or via the Internet. (Pass/Fail.)

**ACAD 108 CAREER AND LIFE PLANNING (2-0-2)(F, S, SU).** Helps students plan and prepare for the life they want after college. Learn how to choose a career path that balances interests, abilities, and values with realities of the job market. Explore majors, identify steps required to become employable, and build job search skills necessary to achieve goals.

**ACAD 109 MAJOR EXPLORATION (2-0-2)(F, S).** Assists undeclared or exploring students in deciding on a college major. Utilize assessments and exercises to examine personalities, values, interests, strengths, and goals, and use self-knowledge to identify potential majors. Examines how academic majors translate into careers and how to research career options.

**ACAD 110 BRONCO READY (1-0-1)(F/S).** An introduction to Boise State as a learner. Primary objectives are to inform and share awareness to first-semester students about success tips, tools, and services that enhance their transition, social integration, and academic persistence. Emphasis of the course is on students understanding the Boise State campus and culture, becoming familiar with Blackboard navigation, and developing skills and competencies to be stronger, more successful students in their first year and beyond.

## Department of Accountancy

*College of Business and Economics*

Micron Business and Economics Building, Room 3130  
(208) 426-3461 (phone)  
acct@boisestate.edu (email)  
<https://www.boisestate.edu/cobe-accountancy/> (website)

*Chair and Associate Professor:* Troy Hyatt. *Professors:* Cowan. *Associate Professors:* Baxter, Filzen, Gooden. *Assistant Professors:* Cutler, Hartt, Knox, Mercado, Stallings. *Lecturers:* Cameron, Christensen, Hurley, Wood.

### Degrees Offered

- Bachelor of Business Administration in Accountancy
- Minor in Accountancy

### Department Statement

The undergraduate degree programs in Accountancy are designed to provide you with the necessary knowledge and skills required for entry-level positions in the accounting profession broadly defined. They also provide the knowledge and skills required for entry into graduate business programs. These skills include written and oral communication, analytical reasoning, the ability to use technology, as well as technical accounting skills.

The mission of the Accountancy Department is to provide a high-quality educational experience through student-centered teaching, impactful research, and meaningful service that benefits and challenges students, the accounting profession, the business community, and the community at large.

Consistent with COBE's values (Relevance, Respect, and Responsibility) we develop well-rounded professionals by:

- delivering rigorous curriculum,
- engaging in relevant research and other scholarly endeavors,
- encouraging life-long learning, and
- fostering a culture of service.

After graduation, students frequently seek to attain professional credentials, such as Certified Public Accountant (CPA), Certified Management Accountant (CMA), and Certified Internal Auditor (CIA). To attain such credentials, candidates must pass rigorous examinations that require hundreds of hours of study and meet various other requirements (e.g., additional education and work experience) as designated by each credentialing organization.

### Admission Requirements

Students interested in pursuing a degree in the College of Business and Economics (COBE) must be a pre-business major and complete the COBE admission requirements prior to the declaration of a major in a degree completion program. Admission to COBE is required before a student may enroll in most upper-division business and economics courses.

For details on the COBE admission requirements, see Pre-Business on page 268.

# ACCOUNTANCY

## Degree Requirements

| Accountancy<br>Bachelor of Business Administration  |            |
|---|------------|
| Course Number and Title   | Credits    |
| University Foundations requirements indicated in bold. See page 48 for details and lists of approved courses.   |            |
| <b>UF 100</b> Foundations of Intellectual Life  | 3          |
| <b>UF 200</b> Foundations of Ethics and Diversity   | 3          |
| <b>FW ENGL 101</b> Writing and Rhetoric I   | 3          |
| <b>FW ENGL 102</b> Writing and Rhetoric II  | 3          |
| <b>FC</b> Foundations of Oral Communication   | 3          |
| <b>FA</b> Foundations of Arts course  | 3          |
| <b>FH</b> Foundations of Humanities course  | 3-4        |
| <b>FM MATH 143</b> College Algebra or<br><b>FM MATH 149</b> Precalculus: Functions for Business or<br><b>FM MATH 160</b> Survey of Calculus or<br><b>FM MATH 170</b> Calculus I | 3-4        |
| <b>FN</b> Foundations of Natural, Physical, & Applied Sciences course with lab  | 3-4        |
| <b>FN</b> Foundations of Natural, Physical, & Applied Sciences course in a second field   | 4          |
| <b>FS ECON 201</b> Principles of Macroeconomics   | 3          |
| <b>FS</b> Foundations of Social Sciences course in a second field   | 3          |
| ACCT 205 Introduction to Financial Accounting   | 3          |
| ACCT 206 Introduction to Managerial Accounting  | 3          |
| ACCT 290 Foundations of the Accounting Profession   | 3          |
| ACCT 302 Survey of Federal Income Taxation  | 3          |
| ACCT 304, 306 Intermediate Accounting I, II   | 6          |
| ACCT 314 Cost Accounting  | 3          |
| ACCT 350 Accounting Information Systems   | 3          |
| ACCT 405 Financial Statement Auditing   | 3          |
| ACCT 410 Advanced Accounting  | 3          |
| BUS 101 Business for the New Generation   | 3          |
| BUS 202 The Legal Environment of Business   | 3          |
| BUS 301 Leadership Skills   | 3          |
| BUS 305 Law for Accountants   | 3          |
| <b>FF BUS 450</b> Business Policies   | 3          |
| BUSCOM 201 Global Business Communication  | 3          |
| BUSSTAT 207 Introduction to Business Analytics or<br>MATH 254 Intro to Statistics   | 3          |
| BUSSTAT 208 Business Analytics  | 3          |
| ECON 202 Principles of Microeconomics   | 3          |
| FINAN 303 Principles of Finance   | 3          |
| CoBE Computer Placement Exam or<br>ITM 105 Spreadsheet Topics and<br>ITM 106 Database Topics  | 0-3        |
| ITM 310 Business Intelligence   | 3          |
| MKTG 301 Principles of Marketing  | 3          |
| SCM 301 Principles of Supply Chain Management   | 3          |
| Upper-division economics course   | 3          |
| Electives to total 120 credits  | 5-11       |
| <b>Total</b>  | <b>120</b> |
| All major required courses must have a grade of C- or better  |            |

If you are a non-accountancy student, you may earn a minor in accountancy by satisfying the requirements listed below, in addition to the requirements of the student's major.

| Accountancy Minor   |           |
|---|-----------|
| Course Number and Title   | Credits   |
| ACCT 290 Foundations of the Accounting Profession                                   | 3         |
| ACCT 302* Survey of Federal Income Taxation   | 3         |
| ACCT 304* Intermediate Accounting I   | 3         |
| ACCT 306* Intermediate Accounting II or<br>ACCT 350* Accounting Information Systems | 3         |
| ACCT 314* Cost Accounting   | 3         |
| <b>Total</b>  | <b>15</b> |
| *Require admission to COBE.   |           |

## Course Offerings

### ACCT—Accountancy

#### Lower Division

**ACCT 205 INTRODUCTION TO FINANCIAL ACCOUNTING (3-0-3) (E, S, SU).** Introduction to financial reporting. The primary objective is to make the student aware of the importance of accounting information as a powerful tool in the business decision-making process. Emphasis of the course is on the uses of financial information in making investment and credit decisions rather than the preparation of the information. PRE/COREQ: ITM 105 or satisfactory completion of computer competency exam covering basic spreadsheet skills or an alternate instructor-approved course.

**ACCT 206 INTRODUCTION TO MANAGERIAL ACCOUNTING (3-0-3) (E, S, SU).** Emphasizes the use of accounting information in business planning, control, and decision making. Students should develop their abilities to: 1) identify and gather relevant financial information for decision making and prepare elementary reports; 2) understand and evaluate published financial reports; and 3) communicate this information to assist in managerial decision making. PREREQ: ACCT 205 and ITM 105 or satisfactory completion of computer competency exam covering basic spreadsheet skills.

**ACCT 290 FOUNDATIONS OF THE ACCOUNTING PROFESSION (3-0-3) (E, S, SU).** Designed to provide a technical and professional foundation for accounting students. Includes the completion of a comprehensive, accounting-cycle project, including the use of accounting software. Also includes an overview of what it means to be an accounting professional; topics include professional judgment, ethical and societal responsibilities, career paths, and strategies for long-term success. PREREQ: ACCT 205 and ITM 105 or satisfactory completion of computer competency exam covering basic spreadsheet skills.

#### Upper Division

Upper-division courses in the Department of Accountancy (those with a course numbered 300 or higher) provide higher-level instruction to students who have the skills necessary to perform at this level. In addition to fulfilling the specific prerequisites listed and meeting the general university requirements for junior standing, every student admitted to a course is expected: to communicate clearly and correctly so that assignments such as term papers and presentations can be completed effectively; to organize and solve problems using the techniques of college algebra; and to use a computer for simple word processing and spreadsheet applications.

**ACCT 302 SURVEY OF FEDERAL INCOME TAXATION (3-0-3) (E, S).** Theory and practice of federal income taxation, including concepts of taxation as they apply to businesses, individuals, flow-through entities and corporations. Specific topics include property transactions, individual tax rules, business revenue and expense issues, and state taxation. Emphasizes the social, political and ethical considerations of tax law. PREREQ: Admission to COBE, ACCT



206, ITM 105 or satisfactory completion of computer competency exam covering basic spreadsheet skills.

**ACCT 304 INTERMEDIATE ACCOUNTING I (3-0-3)(F, S).** Study of financial reporting concepts and preparation of general purpose financial statements for external users based on U.S. generally accepted accounting principles. Emphasis on income measurement and valuation of assets. PREREQ: Admission to COBE, ACCT 206, ACCT 290 and ITM 105 or satisfactory completion of computer competency exam covering basic spreadsheet skills.

**ACCT 306 INTERMEDIATE ACCOUNTING II (3-0-3)(F, S).** Continuation of ACCT 304. Covers more advanced financial reporting topics, with a continued focus on preparation of general purpose financial statements for external users based on U.S. generally accepted accounting principles. Emphasis on measurement and reporting of liabilities and stockholders' equity. PREREQ: ACCT 304.

**ACCT 314 COST ACCOUNTING (3-0-3)(F, S).** Development and use of cost information for strategic cost management. Common costing methods, variance analysis, lean accounting, and responsibility accounting. Emphasizes how costs affect managers' decisions. Applies course topics to more realistic and less structured situations. Ethical and strategic aspects of cost accounting. PREREQ: Admission to COBE, ACCT 206, BUSSTAT 207 or MATH 254, and ITM 105 or satisfactory completion of computer competency exam covering basic spreadsheet skills.

**ACCT 350 ACCOUNTING INFORMATION SYSTEMS (3-0-3)(F, S).** The study of the intersection of accounting, information technology, and data for decision making. Topics include the information life cycle, modeling business processes, frameworks and current assessment of governance, risk management, internal control, and information security. Applied projects and use of software in process modeling, design of controls, and data analytics. PREREQ: Admission to COBE, ACCT 290, ITM 310, and ITM 106 or computer competency exam covering basic database skills.

**ACCT 405 FINANCIAL STATEMENT AUDITING (3-0-3)(F, S).** Introduction to financial statement audits which provide the credibility necessary for the financial markets to operate. Topics include professional standards, SEC requirements for auditors in planning, evidence gathering and accumulation, and reporting. Ethical and legal considerations are also discussed. PREREQ: Admission to COBE, ACCT 306, ACCT 314 and ACCT 350.

**ACCT 410 ADVANCED ACCOUNTING (3-0-3)(F, S).** Topics include accounting for business combinations, including consolidated financial statements, and governmental accounting. PREREQ: Admission to COBE and ACCT 306.

**ACCT 480 SELECTED ACCOUNTING TOPICS (3-0-3)(S).** Current accounting topics and issues are investigated in this class. PREREQ: Admission to COBE, PERM/INST.

**ACCT 485 VOLUNTEER INCOME TAX ASSISTANCE (VITA) PROGRAM (0-2-1)(S).** Supervised participation in the Volunteer Income Tax Assistance (VITA) Program to support free tax preparation service for underserved low-to-moderate income individuals, persons with disabilities, the elderly, and those with limited English speaking ability. May be repeated for a total of 2 credits. PREREQ: Admission to COBE, ACCT 302.

## Department of Anthropology

*College of Arts and Sciences*

Hemingway Western Studies Center, Room 55  
(208) 426-3023 (phone)  
(208) 426-4329 (fax)  
anthropology@boisestate.edu (email)  
<https://www.boisestate.edu/anthropology/> (website)

*Chair and Professor:* John P. Ziker. *Associate Chair and Associate Professor:* Kristin Snopkowski. *Professor:* Hill. *Associate Professors:* Demps, Yu. *Assistant Professor:* Anderson. *Lecturers:* House, Volsche. *Distinguished University Professor Emeritus:* Plew. *Visiting Assistant Professor:* Fauvelle.

### Degrees and Certificates Offered

- Bachelor of Science in Anthropology
- Minor in Anthropology
- Minor in Native American and Indigenous Studies

### Department Statement

The Department of Anthropology at Boise State University is a growing, research-oriented faculty with a focus on human behavior, evolution, and ecology. To understand the full sweep and complexity of our species throughout human history and across societies, anthropology draws upon and integrates methods and theories across disciplines.

The Anthropology program encourages the development of skills needed for today's workforce including critical thinking, scientific research methods, quantitative analysis and interpretation, writing, and cross-cultural communication. Anthropology graduates from Boise State have successfully pursued careers in law, education, public health, business, cultural and natural resource management, social work, community development, planning, as well as professional anthropology. With a focus in archaeological coursework and field school, anthropology graduates have been successful in finding positions with state and federal government organizations and private consulting firms.

For information on advising, curriculum, faculty expertise and research, elective skills courses, internships, field school, scholarships, and student organizations, please visit the department and consult the website at: <https://www.boisestate.edu/anthropology/>.

### Degree Requirements

| Anthropology<br>Bachelor of Science   |         |
|---|---------|
| Course Number and Title   | Credits |
| University Foundations requirements indicated in bold. See page 48 for details and lists of approved courses. |         |
| <b>UF 100</b> Foundations of Intellectual Life  | 3       |
| <b>UF 200</b> Foundations of Ethics and Diversity   | 3       |
| <b>FW ENGL 101</b> Writing and Rhetoric I   | 3       |
| <b>FW ENGL 102</b> Writing and Rhetoric II  | 3       |
| <b>FC</b> Foundations of Oral Communication   | 3       |
| <b>FA</b> Foundations of Arts course  | 3       |
| <b>FH</b> Foundations of Humanities course  | 3-4     |
| <b>FM</b> Foundations of Mathematics course   | 3-4     |
| <b>FN ANTH 104-104L</b> Biological Anthropology and Lab   | 4       |
| <b>FN</b> Foundations of Natural, Physical, & Applied Sciences course in a second field                       | 3-4     |
| <b>FS ANTH 102</b> Cultural Anthropology or<br><b>FS ANTH 216</b> Magic, Witchcraft and Religion              | 3       |

## ANTHROPOLOGY

|   |            |
|---|------------|
| <b>FS</b> Foundations of Social Sciences course in a second field   | 3          |
| ANTH 103 Introduction to Archaeology or ANTH 105 Evolution and Human Behavior   | 3          |
| ANTH 303 History and Theory in Anthropology or ANTH 306 Kinship and Social Organization   | 3          |
| ANTH 314 Environmental Anthropology   | 3          |
| Choose 18 credits of upper-division ANTH courses excluding ANTH 490, ANTH 493 and ANTH 494  | 18         |
| <b>FF</b> ANTH 492 Senior Practicum—Portfolio   | 1          |
| MATH 254 Introduction to Statistics or POLS 298 Introduction to Political Inquiry or PSYC 295 Statistical Methods   | 3          |
| Skill Requirement—choose one sequence from the following or one approved by your advisor and department chair:<br>World Language—one year sequence of a single language<br>Design Ethnography—8 credits of UX courses<br>GIS*—GEOG 360, GEOG 361, GEOG 460<br>Data Science for Liberal Arts—CS 133, DATA-LA 322, DATA-LA 485<br>*MATH 254 is a prerequisite; completion of one year of college physics is strongly recommended. | 8-9        |
| Additional upper-division electives to total 40 credits<br>See your advisor for recommended electives.  | 6-9        |
| Electives to total 120 credits  | 32-38      |
| <b>Total</b>  | <b>120</b> |

### Anthropology Minor

| <i>Course Number and Title</i>   | <i>Credits</i> |
|--|----------------|
| ANTH 102 Cultural Anthropology or ANTH 103 Introduction to Archaeology or ANTH 104-104L Biological Anthropology and Lab or ANTH 105 Evolution and Human Behavior | 3-4            |
| Upper-division ANTH, DATA-LA, UX courses   | 9              |
| Additional ANTH, DATA-LA, UX courses   | 9              |
| <b>Total</b>   | <b>21-22</b>   |

### Native American and Indigenous Studies Minor

| <i>Course Number and Title</i>  | <i>Credits</i> |
|---|----------------|
| ANTH 102 Cultural Anthropology  | 3              |
| ANTH 103 Introduction to Archaeology  | 3              |
| ANTH 307 Anthropology of Native North America   | 3              |
| Choose 9 credits from the following courses:<br>ANTH 312 Prehistory of North America<br>ANTH 320 Latin American Prehistory<br>ENGL 390 Ethnic Literature<br>HIST 341 Native American History<br>LING 318 Introduction to Morphology and Syntax<br>LING 418 Linguistic Typology<br>Other Native American and Indigenous Studies content course from any discipline, with advisor approval. | 9              |
| <b>Total</b>  | <b>18</b>      |

## Course Offerings

### ANTH—Anthropology

#### Lower Division

#### **ANTH 102 CULTURAL ANTHROPOLOGY (3-0-3)(F, S, SU)(FS).**

Introduction to the descriptions, analysis, and explanations of the different ways of life, or cultures, through which human groups have adapted to their environments. Explanation of the nature and characteristic of culture as an adaptive mechanism for human survival.

#### **ANTH 103 INTRODUCTION TO ARCHAEOLOGY (3-0-3)(F, S, SU)**

**(FN).** Introduction to the historic background and basic techniques of anthropological archaeology. Methods and theory used to reconstruct prehistoric cultures, their environmental settings, activities, and histories.

#### **ANTH 104 BIOLOGICAL ANTHROPOLOGY (3-0-3)(F, S, SU)(FN).**

Introduction to human evolution through the study of variation, genetics, adaptation, living primates, the fossil record, and the relationship between biology and behavior. COREQ: ANTH 104L.

#### **ANTH 104L BIOLOGICAL ANTHROPOLOGY LABORATORY (0-3-1)(F, S, SU)(FN).**

Lab to accompany ANTH 104. COREQ: ANTH 104.

#### **ANTH 105 EVOLUTION AND HUMAN BEHAVIOR (3-0-3)(F, S, SU)(FN).**

An introduction to the evolutionary study of human behavior. The evolution of reproductive and somatic behavior, epigenetic processes of group living.

#### **ANTH 216 MAGIC, WITCHCRAFT AND RELIGION (3-0-3)(F/S/SU)**

**(FS).** Comparative survey of beliefs, ceremonies, and ritual in a range of societies. Religious practices, syncretism, shamanism, and revitalization movements are discussed in terms of origins, elements, forms, and symbolism.

#### Upper Division

#### **ANTH 303 HISTORY AND THEORY IN ANTHROPOLOGY (3-0-3)(F/S/**

**SU).** Investigation of scientific events in the development of the basic concepts, theory, and methods of contemporary anthropology. PREREQ: ANTH 102 or ANTH 103 or ANTH 104 or ANTH 105 or PERM/INST.

#### **ANTH 306 KINSHIP AND SOCIAL ORGANIZATION (3-0-3)(S/SU).**

Hominid kinship and social organization in comparative perspective. Residence, descent, developmental familiarity, dominance, pair bonding, intergroup pacification, kin terminology, and social networks. PREREQ: ANTH 102 or ANTH 103 or ANTH 104 or ANTH 105 or PERM/INST.

#### **ANTH 307 ANTHROPOLOGY OF NATIVE NORTH AMERICA (3-0-3)(F/S).**

An ethnographic survey of the native peoples of North America, emphasizing cultural diversity and adaptation. Ethnographic data will cover the time span from the settling of North America to the present. PREREQ: ANTH 102 or ANTH 105 or Global Studies major or minor or ENVSTD major or minor, and upper-division standing or PERM/INST.

#### **ANTH 312 PREHISTORY OF NORTH AMERICA (3-0-3)(F/S).**

Survey of prehistoric archaeology and environments of North America. Examines evidence of prehistoric human adaptation for different regions of the continent during the Pleistocene and the Holocene. PREREQ: ANTH 103 or PERM/INST.

#### **ANTH 314 ENVIRONMENTAL ANTHROPOLOGY (3-0-3)(F/S/SU).**

Examines human perception of the environment and natural resource management in small-scale and industrial societies. Strategies for resolving collective action problems are discussed, as well as cases of conflicts of interest and paths of resolution between conservationists, indigenous peoples, and national governments. PREREQ: ENGL 102, ANTH 102 or ANTH 103 or ANTH 104 or ANTH 105 or Environmental Studies or Global Studies major or minor, and upper-division standing, or PERM/INST.

#### **ANTH 320 LATIN AMERICAN PREHISTORY (3-0-3)(F/S).**

Overview of the Pre-Columbian cultures of Central and South America. Special emphasis is upon Archaic to Formative transitions in Mexico and Peru with discussion of Toltec, Aztec, Mayan, and Inca cultures. PREREQ: ANTH 103 or PERM/INST.

#### **ANTH 322 (DATA-LA 322)(PSYC 322)(SOC 322) PRINCIPLES OF DATA**

**SCIENCE (3-0-3)(F).** An introduction to the core concepts of data science including: predictive modeling using machine learning and data mining; data

gathering, extraction and cleaning; and exploratory data analysis. Emphasizes practical skills for liberal arts students to examine questions of human behavior using large and complex data sets. May be taken for credit in ANTH, DATA-LA, PSYC, or SOC but not for more than one discipline. PREREQ: Upper-division standing, CS 133, and a statistics course.

**ANTH 325 HUMAN VARIATION (3-0-3)(F/S).** Human biological variation both among and within living populations. Evolutionary, genetic, ecological, demographic and cultural factors which contribute to biological variation. PREREQ: ANTH 104 or PERM/INST.

**ANTH 330 OSTEOLOGY (3-0-3)(F/S).** Fundamentals of skeletal analysis applicable to bioarchaeological, paleontological and forensic context. Determination of age, sex, stature, population affinity as well as identification of bone trauma and pathological conditions will be addressed. PREREQ: ANTH 104 or PERM/INST.

**ANTH 350 HUMAN BEHAVIORAL ECOLOGY (3-0-3)(F, SU).** Fundamental principles of evolutionary theory and their application to human within ecological contexts. Surveys current understanding of human sexuality, parenting, kinship, cooperation, and foraging behavior. PREREQ: ANTH 104 or ANTH 105 or BIOL 191 or PERM/INST.

**ANTH 352 EVOLUTION OF THE HUMAN LIFECYCLE (3-0-3)(S).** Timing of life course events resulting from our evolutionary history. Explores behavior and biology from birth to death from multiple explanatory perspectives in the context of fitness trade-offs. PREREQ: ANTH 104 or ANTH 105 or BIOL 191 or PERM/INST.

**ANTH 400 HUNTER-GATHERERS (3-0-3)(F/S).** Survey of prehistoric and existing peoples who live primarily by hunting and gathering. Examines techniques and patterns of subsistence, population dynamics, settlement patterns and land use, ideology, and perceptions of nature. PREREQ: ANTH 102 or ANTH 103 or ANTH 105 or PERM/INST.

**ANTH 401 HUMAN EVOLUTION AND PALEOANTHROPOLOGY (3-0-3)(F/S).** Explores human origins by reviewing the biological and behavioral aspects of primate adaptations. Applied evidence from the fossil and archaeological record to evaluate interpretations of human and primate evolution. PREREQ: ANTH 104 or BIOL 191 or PERM/INST.

**ANTH 402 GEOARCHAEOLOGY (3-0-3)(F/S).** Examines theories and methods of the earth sciences to determine the location, age, and composition of the archaeological record. Emphasizes application of the natural sciences to study the human past by the study of sediments and ancient environments. PREREQ: ANTH 103, upper-division standing and PERM/INST.

**ANTH 414 QUATERNARY PALEONTOLOGY (3-0-3)(F/S).** Fundamental of paleoecology and taphonomy applied to the study of Pleistocene and Holocene paleobiology. Primary focus on animal adaptation, evolution, and extinction, plant and animal connections to environmental and climate change and human prehistory, and identification and measurements of biotic materials. PREREQ: ANTH 103, upper-division standing and PERM/INST.

**ANTH 418 RESEARCH METHODS FOR SOCIAL SCIENTISTS (3-0-3)(F/S).** A survey and practicum of methods commonly used by social scientists to answer research questions on quantifiable human behavior. Course includes hands-on projects to learn research design, application of mixed methods, and interpretation and presentation of results. PREREQ: Upper division standing or PERM/INST.

**ANTH 420 (DATA-LA 420)(PSYC 420)(SOC 420) SOCIAL NETWORK ANALYSIS (3-0-3)(F, S, SU).** Introduces and applies concepts and empirical methods of network analysis in a field-based project. Social networks influence learning, economic behavior, and adoption of new products and organizational innovations. May be taken for credit in ANTH, DATA-LA, PSYC, or SOC but not for more than one discipline. PREREQ: Upper-division standing and a statistics course.

**ANTH 425 MEDICAL ANTHROPOLOGY: DISEASE, CULTURE AND HEALING (3-0-3)(F/S).** Introduces the student to the dynamic relationship that exists between health and culture. Topics include epidemiology, medical ecology, nutrition, ethnomedicine, the social meaning of illness, medical and cultural change, and alternative health models. Emphasis will be on a cross-cultural approach. Ethnographic data will be provided from cultures around the world. PREREQ: ANTH 102 or ANTH 104 or ANTH 105, or PERM/INST.

**ANTH 444 FORENSIC ANTHROPOLOGY (3-0-3)(F/S).** Provides students with intensive practical knowledge of methods, procedures and theories of forensic anthropologists through lectures, labs, and field exercises. Culminates in analysis and presentation of written case report. PREREQ: ANTH 104, or PERM/INST.

**ANTH 480 SEMINAR IN ANTHROPOLOGY (3-0-3)(F/S).** Philosophical and theoretical issues in anthropology. Developments in methodology and technical advances in anthropology research. Seminar topics will vary. PREREQ: PERM/INST.

**ANTH 485 (DATA-LA 485)(PSYC 485)(SOC 485) STATISTICAL MODELING IN R (3-0-3)(S).** Focuses on statistical methods for practical data analysis, including parametric and non-parametric analyses, ANOVA, multiple and logistic regression, generalized linear models, and dimension reduction methods using R to examine and understand human behavior. Students will conduct a research project designed in partnership with a professional stakeholder that delivers actionable outcomes. May be taken for credit in ANTH, DATA-LA, PSYC, or SOC but not for more than one discipline. PREREQ: ITM 330 and ITM 340; or DATA-LA 322.

**ANTH 490 ARCHAEOLOGY FIELD SCHOOL (1-20-6)(SU).** Six weeks on-site field training in the archaeological techniques of site reconnaissance and excavation. Focus will be placed on the observation, recording, and recovery of field data. Instruction includes preliminary laboratory processing and artifact analysis. Special fee required for room and board. PREREQ: ANTH 103 and PERM/INST.

**ANTH 492 SENIOR PRACTICUM-PORTFOLIO (1-0-1)(F)(FF).** A capstone course designed to help seniors develop and construct their senior portfolio. Included in the course is the departmental "portfolio review." PREREQ: ANTH 303 or ANTH 306 and senior standing.

**ANTH 495 SENIOR THESIS (0-6-3)(F/S).** An individual research project involving an original investigation in Anthropology culminating in a written thesis. A research proposal will be submitted to a supervising faculty member and approved by the chair during the semester prior to initiation of the project. The thesis will be read by two faculty members. Recommended for students planning graduate studies.

# Applied Public Administration Certificate

*School of Public Service*

Environmental Research Building, Room 1147  
(208) 426-5527 (phone)

*Program Coordinator:* Luke Fowler

## Certificates Offered

- Certificate in Applied Public Administration

## Program Statement

The Boise State University Certificate in Applied Public Administration assists working professional and students with an applied, skills-based approach to hone their management and leadership skills and policy development expertise in the unique environment facing public service organizations across public, private, and non-profit sectors.

## Certificate Requirements

| Applied Public Administration Certificate   |                |
|---|----------------|
| <i>Course Number and Title</i>  | <i>Credits</i> |
| PUBADM 461 How to Plan a Career in Public Service   | 1              |
| PUBADM 462 How Public Policy is Made  | 1              |
| PUBADM 463 How the Legislative Process Works  | 1              |
| PUBADM 464 How to Engage Citizens   | 1              |
| PUBADM 465 How to Manage Public Finances  | 1              |
| PUBADM 466 How to Navigate Ethical Challenges   | 1              |
| PUBADM 467 How to Deal with People  | 1              |
| PUBADM 468 How to Negotiate Risks   | 1              |
| PUBADM 469 How to Make Policy Choices   | 1              |
| <b>Total</b>  | <b>9</b>       |
| The certificate will be awarded following completion of an associate or baccalaureate degree. |                |

## Course Offerings

### PUBADM—Public Administration

#### Upper Division

#### **PUBADM 461 HOW TO PLAN A CAREER IN PUBLIC SERVICE**

**(1-0-1)(F/S/SU).** Examines key skills for public servants that are marketable to employers, and career paths that include employment in public, private, and non-profit organizations. PREREQ: upper-division standing or PERM/INST.

#### **PUBADM 462 HOW PUBLIC POLICY IS MADE (1-0-1)(F/S/SU).**

Examines the public policy process including stages, types, and the roles public servants play. PREREQ: upper-division standing. PREREQ: upper-division standing or PERM/INST.

#### **PUBADM 463 HOW THE LEGISLATIVE PROCESS WORKS (1-0-1)(F/S/SU).**

Examines the process by which decisions are made in legislative bodies, including parliamentary process and budgetary allocations. PREREQ: upper-division standing or PERM/INST.

#### **PUBADM 464 HOW TO ENGAGE CITIZENS (1-0-1)(F/S/SU).**

Examines importance of citizen participation in policy processes, including the role of social capital. PREREQ: upper-division standing or PERM/INST.

#### **PUBADM 465 HOW TO MANAGE PUBLIC FINANCES (1-0-1)(F/S/SU).**

Examines key issues in public financial management, including basic government accounting and regulations governing public spending. PREREQ: upper-division standing or PERM/INST.

#### **PUBADM 466 HOW TO NAVIGATE ETHICAL CHALLENGES (1-0-1)(F/S/SU).**

Provides an introduction to ethical challenges faced by public servants, including legal responsibilities. PREREQ: upper-division standing or PERM/INST.

#### **PUBADM 467 HOW TO DEAL WITH PEOPLE (1-0-1)(F/S/SU).**

Explores issues related to leadership, mentoring and training employees, and working with others. PREREQ: upper-division standing. PREREQ: upper-division standing or PERM/INST.

#### **PUBADM 468 HOW TO NEGOTIATE RISKS (1-0-1)(F/S/SU).**

Examines the way in which organizations make an assessment of, control, and transfer risk. PREREQ: upper-division standing or PERM/INST.

#### **PUBADM 469 HOW TO MAKE POLICY CHOICES (1-0-1)(F/S/SU).**

Introduction to techniques used to assess the potential impacts of policy choices. PREREQ: upper-division standing.

# Department of Art, Design, and Visual Studies

College of Arts and Sciences | School of the Arts

Center for Visual Arts, Room 106  
(208) 426-1230 (phone)  
<https://www.boisestate.edu/art/> (website)

*Interim Chair and Associate Professor:* Dan Scott. *Professors:* AnnieMargaret, Bacon, Budde, Carman, Earley, Erpelding, Fox, Keys, McNeil, Sadler, Smulovitz, Turner. *Associate Professors:* Blakeslee, Dinkar, Elder, Lee, Peariso, Walker, Wiley. *Assistant Professors:* Grusiecki, Snodgrass. *Lecturers:* Furlong, Jones.

## Degrees Offered

- Bachelor of Arts in History of Art and Visual Culture
- Bachelor of Arts in Visual Art
- Bachelor of Fine Arts in Art Education K-12, 6-12
- Bachelor of Fine Arts in Graphic Design
- Bachelor of Fine Arts in Illustration
- Bachelor of Fine Arts in Visual Art
  - Art Jewelry and Metalsmithing Emphasis
  - Ceramics Emphasis
  - Drawing and Painting Emphasis
  - Interdisciplinary Art Studio Emphasis
  - Photography Emphasis
  - Printmaking Emphasis
  - Sculpture Emphasis
- Minor in History of Art and Visual Culture
- Minor in Visual Art

## Department Statement

As a primary emphasis program representing the visual arts disciplines the department provides:

- diverse ideological positions, visual arts disciplines, teacher preparation and degree programs,
- liberal arts core and elective courses for all Boise State students, and
- a variety of local, regional, national and international visual art exhibitions and visiting artists and scholars.

The central purpose of the Art, Design, and Visual Studies department is to provide students with the requisite technical skills and theoretical knowledge for competitive and successful careers as professional artists, art teachers, art historians, graphic designers and illustrators. The department provides professional practice and leadership in the represented disciplines through individual faculty research and creative activity. The department programs emphasize creativity, proficiency in skill and technique, fluency in written and verbal communication, engagement with contemporary theory and criticism and an understanding of historical, social and aesthetic issues pertaining to art and visual culture. The department prepares students to situate their work within diverse cultural and visual contexts through the presentation of a range of viewpoints, projects, and studies designed to broaden their cultural perspectives.

## Admission Requirements

### Minimum Criteria for Upper-Division Admission into Visual Art (for Visual Art majors, Visual Art minors, or Art Teaching endorsement)

The BA, BFA, and Minor in Visual Art, and the Art Teaching Endorsement requires admission to upper-division standing by application to the Department of Art, Design, and Visual Studies. The application process can occur in either the fall or spring semester; students must have sophomore standing in the semester of application and have completed or be currently enrolled in coursework.

When applying to upper-division standing in art, design, and visual studies, students are required to meet the following criteria:

1. Successful completion of the following courses: ART 107 Art Foundations I, ART 108 Art Foundations II, ART 109 Foundation Drawing, ARTHIST 101 or ARTHIST 102 Survey of Western Art I and II, one 200-level 2-dimensional courses (completed or in-progress during the semester of application), and one 200-level 3-dimensional courses (completed or in-progress during the semester of application).
2. Completion of a minimum of 40 credits of university-level coursework (includes courses in progress).
3. Cumulative GPA of 2.5 or above.; ART and ARTHIST cumulative GPA of 3.0 or above. Only ART and ARTHIST courses in which a C- or better is earned may count toward the degree.

An application for upper-division standing will include the following:

1. a current unofficial transcript,
2. A portfolio of creative work for evaluation by a faculty committee
3. Additional direction, assistance, and specific deadlines for each year's application process will be available on Department of Art, Design, and Visual Studies website, please see "Admission Procedures" at <https://www.boisestate.edu/art/>.

## Degree Requirements

| Visual Art Bachelor of Arts   |         |
|---|---------|
| Course Number and Title   | Credits |
| University Foundations requirements indicated in bold. See page 48 for details and lists of approved courses.   |         |
| <b>UF 100</b> Foundations of Intellectual Life  | 3       |
| <b>UF 200</b> Foundations of Ethics and Diversity   | 3       |
| <b>FW ENGL 101</b> Writing and Rhetoric I   | 3       |
| <b>FW ENGL 102</b> Writing and Rhetoric II  | 3       |
| <b>FC</b> Foundations of Oral Communication   | 3       |
| <b>FM</b> Foundations of Mathematics course   | 3-4     |
| <b>FN</b> Foundations of Natural, Physical, & Applied Sciences course with lab  | 4       |
| <b>FN</b> Foundations of Natural, Physical, & Applied Sciences course in a second field   | 3-4     |
| <b>FA</b> ARTHIST 101 Survey of Western Art I   | 3       |
| <b>FH</b> Foundations of Humanities course  | 3-4     |
| <b>FS</b> Foundations of Social Sciences course   | 3       |
| <b>FS</b> Foundations of Social Sciences course in a second field   | 3       |
| ART 107, 108 Art Foundations I and II   | 6       |
| ART 109 Foundation Drawing  | 3       |
| ART 298 Seminar   | 3       |
| <b>FF</b> ART 491 Senior Studio Seminar in Visual Arts  | 2       |
| ARTHIST 102 Survey of Western Art II  | 3       |
| Three (3) 2-dimensional courses chosen from:<br>ART 209 Introduction to Printmaking<br>ART 212 Drawing I<br>ART 215 Painting I<br>ART 251 Introduction to Creative Photography                  | 9       |
| Two (2) 3-dimensional courses chosen from:<br>ART 221 Intro to Art Jewelry and Metalsmithing<br>ART 225, 226 Ceramics<br>ART 231 Beginning Sculpture<br>Two (2) disciplines must be represented | 6       |

## ART, DESIGN, AND VISUAL STUDIES

|  |       |
|--|-------|
| One (1) non-Western art history (ARTHIST) course chosen from:<br>ARTHIST 356 Art of India<br>ARTHIST 359 Pre-Columbian Art<br>ARTHIST 386 Colloquium in Non-Western Art History<br>or relevant upper-division ARTHIST special topics<br>course | 3     |
| Upper-division art history (ARTHIST)   | 3     |
| Upper-division Art electives   | 6     |
| Upper-division electives to total 40 credits   | 26    |
| Electives to total 120 credits   | 10-13 |
| Total  | 120   |

You must earn a C- or better in all ART and ARTHIST courses.

A minimum 3.0 GPA must be maintained in all ART and ARTHIST courses.

| Visual Art<br>Bachelor of Fine Arts   |                |
|---|----------------|
| <i>Course Number and Title</i>  | <i>Credits</i> |
| University Foundations requirements indicated in bold. See page 48 for details and lists of approved courses.   |                |
| <b>FW ENGL 101</b> Writing and Rhetoric I   | 3              |
| <b>FW ENGL 102</b> Writing and Rhetoric II  | 3              |
| <b>UF 100</b> Foundations of Intellectual Life  | 3              |
| <b>UF 200</b> Foundations of Ethics and Diversity   | 3              |
| <b>FC</b> Foundations of Oral Communication   | 3              |
| <b>FM</b> Foundations of Mathematics course   | 3-4            |
| <b>FN</b> Foundations of Natural, Physical, & Applied Sciences course with lab  | 4              |
| <b>FN</b> Foundations of Natural, Physical, & Applied Sciences course in a second field   | 3-4            |
| <b>FA</b> ARTHIST 101 Survey of Western Art I   | 3              |
| <b>FH</b> Foundations of Humanities course  | 3-4            |
| <b>FS</b> Foundations of Social Sciences course   | 3              |
| <b>FS</b> Foundations of Social Sciences course in a second field   | 3              |
| ART 107, 108 Art Foundations I and II   | 6              |
| ART 109 Foundation Drawing  | 3              |
| ART 298 Seminar   | 3              |
| ART 490 BFA Exhibition  | 2              |
| <b>FF</b> ART 491 Senior Studio Seminar in Visual Arts  | 2              |
| ARTHIST 102 Survey of Western Art II  | 3              |
| Upper-division ARTHIST<br>See your area of emphasis requirements for any specific<br>course recommendations   | 6              |
| Area of Emphasis: Students may emphasize Art Jewelry<br>and Metalsmithing, Ceramics, Drawing and Painting,<br>Interdisciplinary Art Studio, Photography, Printmaking, or<br>Sculpture. Each area of emphasis has specific<br>requirements listed below. |                |
| <b>Art Jewelry and Metalsmithing Emphasis</b>   |                |
| Two (2) 2-dimensional courses chosen from:<br>ART 209 Introduction to Printmaking<br>ART 212 Drawing I<br>ART 215 Painting I<br>ART 251 Introduction to Creative Photography  | 6              |
| Three (3) 3-dimensional (three (3) disciplines must be<br>represented) courses chosen from:<br>ART 221 Intro to Art Jewelry and Metalsmithing<br>ART 225, ART 226 Ceramics<br>ART 231 Beginning Sculpture   | 9              |

|  |     |
|--|-----|
| One (1) course chosen from:<br>ART 325 Studio in Ceramics<br>ART 331 Traditional Processes<br>ART 333 3D Digital Processes<br>ART 334 Assembled Form<br>ART 335 Flexible Form<br>ART 338 Expanded Formats<br>ART 339 Cast Form   | 3   |
| Twelve (12) credits chosen from—each course can be<br>repeated once for credit:<br>ART 303 Art Jewelry & Metalsmithing: Multiples<br>ART 304 Art Jewelry & Metalsmithing: Color<br>ART 306 Contemporary Concepts in Metalsmithing<br>ART 307 Contemporary Concepts in Art Jewelry  | 12  |
| ART 419 Studio in Art Jewelry & Metalsmithing  | 3   |
| ART or ARTHIST electives (8 credits must be upper-<br>division)  | 17  |
| Upper-division electives to total 40 credits   | 0-4 |
| Electives to total 120 credits   | 4-5 |
| Total  | 120 |
| <b>Ceramics Emphasis</b>   |     |
| Two (2) 2-dimensional courses chosen from:<br>ART 209 Introduction to Printmaking<br>ART 212 Drawing I<br>ART 215 Painting I<br>ART 251 Introduction to Creative Photography   | 6   |
| ART 221 Intro to Art Jewelry and Metalsmithing   | 3   |
| ART 225 Ceramics   | 3   |
| ART 226 Ceramics   | 3   |
| ART 231 Beginning Sculpture  | 3   |
| One (1) course chosen from:<br>ART 303 Art Jewelry & Metalsmithing: Multiples<br>ART 304 Art Jewelry & Metalsmithing: Color<br>ART 306 Contemporary Concepts in Metalsmithing<br>ART 307 Contemporary Concepts in Art Jewelry<br>ART 331 Traditional Processes<br>ART 333 3D Digital Processes<br>ART 334 Assembled Form<br>ART 335 Flexible Form<br>ART 338 Expanded Formats<br>ART 339 Cast Form | 3   |
| ART 325 Studio in Ceramics   | 6   |
| ART 425 Studio in Ceramics   | 6   |
| ART or ARTHIST electives (11 credits must be upper-<br>division)   | 17  |
| Upper-division electives to total 40 credits   | 0-4 |
| Electives to total 120 credits   | 4-5 |
| Total  | 120 |
| <b>Drawing and Painting Emphasis</b>   |     |
| ART 209 Introduction to Printmaking  | 3   |
| ART 212 Drawing I  | 3   |
| ART 215 Painting I   | 3   |
| ART 251 Introduction to Creative Photography   | 3   |
| Two (2) 3-dimensional courses (two (2) disciplines must<br>be represented) chosen from:<br>ART 221 Intro to Art Jewelry and Metalsmithing<br>ART 225, ART 226 Ceramics<br>ART 231 Beginning Sculpture  | 6   |
| ART 311 Drawing II   | 3   |
| ART 312 Human Presence: Drawing  | 3   |
| ART 315 Painting II  | 3   |
| ART 413 Studio   | 6   |

|   |     |
|---|-----|
| Course chosen from:<br>ARTHIST 302 History of 20 <sup>th</sup> Century European Art<br>ARTHIST 371 History of 20 <sup>th</sup> Century American Art<br>ARTHIST 373 History of Photography<br>ARTHIST 451 Contemporary Concepts in Art | -   |
| ART or ARTHIST electives (15 credits must be upper-division)  | 18  |
| Electives to total 120 credits  | 4-7 |
| Total   | 120 |
| <b>Interdisciplinary Art Studio Emphasis</b>  |     |
| ART 212 Drawing I   | 3   |
| Two (2) 2-dimensional courses chosen from:<br>ART 209 Introduction to Printmaking<br>ART 215 Painting I<br>ART 251 Introduction to Creative Photography<br>ART 272 Digital Tools for the Visual Arts                                  | 6   |
| Two (2) 3-dimensional courses (two (2) disciplines must be represented) chosen from:<br>ART 221 Intro to Art Jewelry and Metalsmithing<br>ART 225, ART 226 Ceramics<br>ART 231 Beginning Sculpture                                    | 6   |
| Five (5) upper-division studio courses from at least two (2) disciplines  | 15  |
| ART 373 Interdisciplinary Practice  | 3   |
| ART 473 Studio in Interdisciplinary Practice  | 6   |
| Course chosen from:<br>ARTHIST 302 History of 20 <sup>th</sup> Century European Art<br>ARTHIST 371 History of 20 <sup>th</sup> Century American Art<br>ARTHIST 373 History of Photography<br>ARTHIST 451 Contemporary Concepts in Art | -   |
| ART or ARTHIST electives (6 credits must be upper-division)   | 12  |
| Electives to total 120 credits  | 4-7 |
| Total   | 120 |
| <b>Photography Emphasis</b>   |     |
| Two (2) 2-dimensional courses chosen from:<br>ART 209 Introduction to Printmaking<br>ART 212 Drawing I<br>ART 215 Painting I  | 6   |
| Two (2) 3-dimensional courses (two (2) disciplines must be represented) chosen from:<br>ART 221 Intro to Art Jewelry and Metalsmithing<br>ART 225, ART 226 Ceramics<br>ART 231 Beginning Sculpture                                    | 6   |
| ART 251 Introduction to Creative Photography  | 3   |
| ART 341 Creative Photography  | 3   |
| ART 342 Digital Photography   | 3   |
| ART 344 Creative Photography, Digital   | 3   |
| ART 444 Advanced Photography (2 semesters)  | 6   |
| ARTHIST 373 History of Photography  | 3   |
| ART or ARTHIST electives (8 credits must be upper-division)   | 17  |
| Upper-division electives to total 40 credits  | 0-4 |
| Electives to total 120 credits  | 4-5 |
| Total   | 120 |
| <b>Printmaking Emphasis</b>   |     |
| Two (2) 2-dimensional courses chosen from:<br>ART 212 Drawing I<br>ART 215 Painting I<br>ART 251 Introduction to Creative Photography   | 6   |

|   |     |
|---|-----|
| Two (2) 3-dimensional courses (two (2) disciplines must be represented) chosen from:<br>ART 221 Intro to Art Jewelry and Metalsmithing<br>ART 225, ART 226 Ceramics<br>ART 231 Beginning Sculpture  | 6   |
| ART 209 Introduction to Printmaking   | 3   |
| ART 309 Printmaking   | 6   |
| ART 409 Studio in Printmaking   | 6   |
| Upper-division ART electives  | 5   |
| ART or ARTHIST electives (5 credits must be upper-division)   | 17  |
| Upper-division electives to total 40 credits  | 0-8 |
| Electives to total 120 credits  | 1-6 |
| Total   | 120 |
| <b>Sculpture Emphasis</b>   |     |
| Two (2) 2-dimensional courses chosen from:<br>ART 209 Introduction to Printmaking<br>ART 212 Drawing I<br>ART 215 Painting I<br>ART 251 Introduction to Creative Photography  | 6   |
| ART 221 Intro to Art Jewelry and Metalsmithing  | 3   |
| ART 225 or 226 Ceramics   | 3   |
| ART 231 Beginning Sculpture   | 3   |
| One (1) course chosen from:<br>ART 303 Art Jewelry & Metalsmithing: Multiples<br>ART 304 Art Jewelry & Metalsmithing: Color<br>ART 306 Contemporary Concepts in Metalsmithing<br>ART 307 Contemporary Concepts in Art Jewelry<br>ART 325 Studio in Ceramics | 3   |
| Four (4) courses chosen from:<br>ART 331 Traditional Processes<br>ART 333 3D Digital Processes<br>ART 334 Assembled Form<br>ART 335 Flexible Form<br>ART 338 Expanded Formats<br>ART 339 Cast Form<br>ART 373 Interdisciplinary Practice                    | 12  |
| ART 431 Studio in Sculpture   | 3   |
| ART or ARTHIST electives (8 credits must be upper-division)   | 17  |
| Upper-division electives to total 40 credits  | 0-4 |
| Electives to total 120 credits  | 4-5 |
| Total   | 120 |

The Art Education program combines content knowledge, theories of learning and human development, study of curriculum, and methodology, to help students develop the knowledge, skills and dispositions essential for success in secondary school teaching. The program is grounded in the conceptual framework of reflective practitioner. Reflective practitioners adjust their teaching approaches and learning environment to the needs and backgrounds of their students. Candidates who complete this program have demonstrated evidence of meeting the Idaho Beginning Teacher Standards and are eligible for recommendation for state certification.

Students wishing to pursue a BFA in Art Education must first apply for admission to the Art, Design, and Visual Studies Department and meet the requirements and standards for admission to teacher education, which are described fully under the Department of Curriculum, Instruction, and Foundational Studies or at <https://www.boisestate.edu/education/>. Students must meet all knowledge, skill, and disposition requirements to remain in the program.

You must earn a C- or better in all ART and ARTHIST courses. A minimum 3.0 GPA must be maintained in all ART and ARTHIST courses.

## ART, DESIGN, AND VISUAL STUDIES

| Art Education, K-12 or 6-12<br>Bachelor of Fine Arts   |                |
|--|----------------|
| <i>Course Number and Title</i>   | <i>Credits</i> |
| University Foundations requirements indicated in bold. See page 48 for details and lists of approved courses.  |                |
| <b>UF 100</b> Foundations of Intellectual Life   | 3              |
| <b>UF 200</b> Foundations of Ethics and Diversity  | 3              |
| <b>FW ENGL 101</b> Writing and Rhetoric I  | 3              |
| <b>FW ENGL 102</b> Writing and Rhetoric II   | 3              |
| <b>FC</b> Foundations of Oral Communication  | 3              |
| <b>FM</b> Foundations of Mathematics course  | 3-4            |
| <b>FN</b> Foundations of Natural, Physical, & Applied Sciences course with lab   | 4              |
| <b>FN</b> Foundations of Natural, Physical, & Applied Sciences course in a second field  | 3-4            |
| <b>FA ARTHIST 101</b> Survey of Western Art I  | 3              |
| <b>FH</b> Foundations of Humanities course   | 3-4            |
| <b>FS ED-CIFS 201</b> Education, Schooling, and Society  | 3              |
| <b>FS</b> Foundations of Social Sciences course in a second field  | 3              |
| ART 107, 108 Art Foundations I and II  | 6              |
| ART 109 Foundation Drawing   | 3              |
| ART 209 Introduction to Printmaking  | 3              |
| ART 212 Drawing I  | 3              |
| ART 215 Painting I   | 3              |
| ART 225 Ceramics or ART 226 Ceramics   | 3              |
| ART 231 Beginning Sculpture  | 3              |
| ART 298 Seminar  | 3              |
| ART 300 Multicultural Arts   | 3              |
| ART 315 Painting II  | 3              |
| ART 322 Elementary School Art Methods for Art Education Majors   | 3              |
| ART 351 Secondary School Art Methods   | 3              |
| ART 490 BFA Exhibition   | 2              |
| <b>FF ART 491</b> Senior Studio Seminar in Visual Arts   | 2              |
| ARTHIST 102 Survey of Western Art II   | 3              |
| One (1) course chosen from:<br>ART 221 Intro to Art Jewelry and Metalsmithing<br>ART 251 Introduction to Creative Photography<br>ARTHIST 103 Survey of Far Eastern Art   | 3              |
| Upper-division art history (ARTHIST)   | 3              |
| Area of Emphasis Requirement:<br>14 to 20 credits in one art discipline. Students emphasizing painting/drawing must complete a minimum of 20 credits. Student emphasizing art history, art jewelry and metalsmithing, ceramics, photography, printmaking, or sculpture must complete a minimum of 14 credits.<br><br>Required courses count toward the area of emphasis (e.g., the 12 credits required in painting/drawing can be applied to the 20 credit total). | 5-14           |
| EDTECH 202 Teaching and Learning in a Digital Age  | 3              |
| ED-CIFS 302* Learning and Instruction  | 4              |
| ED-CIFS 401* Professional Year—Teaching Experience II  | 3              |
| ED-LLC 444* Content Literacy for Secondary Students  | 3              |
| ED-ESP 350* Teaching Students with Exceptional Needs at the Secondary Level  | 3              |
| Teaching Experience III/IV*  | 14             |

|   |         |
|---|---------|
| *You must apply for admission to secondary teacher education to enroll in these upper-division education courses. Completion of all requirements for graduation with a secondary education option may require more than 120 credit hours. See Department of Curriculum, Instruction, and Foundational Studies for more information. |         |
| Total   | 124-136 |

| Art Teaching Endorsement   |                |
|--|----------------|
| <i>Course Number and Title</i>   | <i>Credits</i> |
| One (1) art history  | 3              |
| Two (2) art foundations  | 6              |
| Two (2) drawing  | 6              |
| One (1) painting   | 3              |
| One (1) art jewelry and metalsmithing, ceramics, multicultural arts, photography, or printmaking | 2-3            |
| ART 322 Elementary School Art Methods for Art Education Majors                                   | 3              |
| ART 351 Secondary School Art Methods   | 3              |
| Total  | 26-27          |
| See Department of Curriculum, Instruction, and Foundational Studies for more information.        |                |

### Minimum Criteria for Upper-Division Admission into Graphic Design

The BFA in Graphic Design requires admission to upper-division standing by application to the Art, Design, and Visual Studies department. The application process occurs in spring semester only; students must have completed (or be in the process of completing) both ART 277 and ART 288 to apply. When applying to upper-division standing in graphic design, students are required to meet the following criteria:

1. Admission to Boise State University and Art, Design, and Visual Studies Department.
2. Successful completion of these courses: ARTHIST 101-102 Survey of Western Art I and II, ART 107, 108 Art Foundations I and II, ART 109 Foundation Drawing, and ART 251 Introduction to Creative Photography (completed or in progress during the semester of application).
3. Completion of 24 hours of coursework (includes courses in progress).
4. Cumulative GPA of 2.5; ART and ARTHIST GPA of 3.0 minimum. You must earn a C- or better in all ART and ARTHIST courses in order for them to count toward your degree.

An application for upper-division standing will include the following:

1. a current transcript,
2. a portfolio of artwork to be reviewed by the graphic design faculty, and
3. an application statement (not to exceed 500 words) reflecting upon your interests, background and aspirations pertaining to the BFA in Graphic Design.

Additional direction, assistance, and specific deadlines for each year's application process will be relayed in ART 277 and ART 288.



| Graphic Design<br>Bachelor of Fine Arts   |                |
|---|----------------|
| <i>Course Number and Title</i>  | <i>Credits</i> |
| University Foundations requirements indicated in bold. See page 48 for details and lists of approved courses.   |                |
| <b>UF 100</b> Foundations of Intellectual Life  | 3              |
| <b>UF 200</b> Foundations of Ethics and Diversity   | 3              |
| <b>FW ENGL 101</b> Writing and Rhetoric I   | 3              |
| <b>FW ENGL 102</b> Writing and Rhetoric II  | 3              |
| <b>FC</b> Foundations of Oral Communication   | 3              |
| <b>FM</b> Foundations of Mathematics course   | 3-4            |
| <b>FN</b> Foundations of Natural, Physical, & Applied Sciences course with lab  | 4              |
| <b>FN</b> Foundations of Natural, Physical, & Applied Sciences course in a second field   | 3-4            |
| <b>FA ARTHIST 101</b> Survey of Western Art I   | 3              |
| <b>FH</b> Foundations of Humanities course—a 100-level or higher course in a foreign language   | 3-4            |
| <b>FS</b> Foundations of Social Sciences course   | 3              |
| <b>FS</b> Foundations of Social Sciences course in a second field   | 3              |
| ART 107, 108 Art Foundations I and II   | 6              |
| ART 109 Foundation Drawing  | 3              |
| ART 212 Drawing I   | 3              |
| ART 251 Introduction to Creative Photography (must be taken by the end of the sophomore year)   | 3              |
| ART 277, 288 Graphic Design I, II   | 6              |
| ART 298 Seminar   | 3              |
| ART 341 Creative Photography or<br>ART 344 Creative Photography, Digital  | 3              |
| ART 377, ART 388, ART 477, ART 488 Graphic Design   | 12             |
| ARTHIST 102 Survey of Western Art II  | 3              |
| Six (6) additional credits selected from:<br>ART 305 Studio in Visual Design<br>ART 309 Printmaking<br>ART 341 Creative Photography<br>ART 342 Digital Photography<br>ART 344 Creative Photography, Digital<br>ART 361 Illustration I<br>ART 362 Illustration II<br>ART 409 Studio in Printmaking<br>ART 461 Studio in Illustration<br>ART 462 Advanced Studio in Illustration  | 6              |
| Nine (9) additional credits from:<br>ART 383 Graphic Design Hand Process<br>ART 385 Advanced Typography<br>ART 400 History of Visual Rhetoric<br>ART 420 Applied Projects in Graphic Design<br>ART 477 Graphic Design V (repeat)<br>ART 483 New Media Design<br>ART 488 Graphic Design VI (repeat)<br>ART 493 Internship (up to 6 credits)<br>MKTG 401 Advertising Agency Management I<br>MKTG 402 Advertising Agency Management II | 9              |
| <b>FF</b> ART 495 Capstone Review   | 3              |
| Upper-division art history (ARTHIST)  | 3              |
| Sculpture, ceramics, art jewelry and metalsmithing  | 3              |
| 100-level or higher course in foreign language in sequence with <b>FH</b> course taken  | 3-4            |
| Upper-division electives to total 40 credits  | 1-4            |
| Electives to total 120 credits  | 9-10           |
| Total   | 120            |

### Minimum Criteria for Admission to Illustration

The application process can occur in either the fall or spring semester; students must have junior standing in the semester of application and have completed or be currently enrolled in coursework. Applicants must have a 3.0 overall GPA and have earned a C- or better in all ART and ARTHIST courses with a minimum of 3.0 GPA in all art courses.

When applying to the Illustration Program, students are required to meet the following criteria:

1. Successful completion of these courses: ART 107, ART 108 Art Foundations I and II, ART 109 Foundation Drawing, ARTHIST 101 or ARTHIST 102 Survey of Western Art I and II, and ART 361 Illustration I.
2. Completion of 60 hours of coursework (includes courses in progress).
3. Cumulative GPA of 3.0 or above; ART and ARTHIST GPA of 3.0 or above. Only ART and ARTHIST courses in which a C- or better is earned may count toward the degree.

An application for upper-division standing will include the following:

1. A current transcript.
2. A portfolio of artwork for review.

Additional direction, assistance, and specific deadlines for each year's application process will be available on Art, Design, and Visual Studies Department website or by contacting the Program Director.

| Illustration<br>Bachelor of Fine Arts   |                |
|---|----------------|
| <i>Course Number and Title</i>  | <i>Credits</i> |
| University Foundations requirements indicated in bold. See page 48 for details and lists of approved courses. |                |
| <b>UF 100</b> Foundations of Intellectual Life  | 3              |
| <b>UF 200</b> Foundations of Ethics and Diversity   | 3              |
| <b>FW ENGL 101</b> Writing and Rhetoric I   | 3              |
| <b>FW ENGL 102</b> Writing and Rhetoric II  | 3              |
| <b>FC</b> Foundations of Oral Communication   | 3              |
| <b>FM</b> Foundations of Mathematics course   | 3-4            |
| <b>FN</b> Foundations of Natural, Physical, & Applied Sciences course with lab                                | 4              |
| <b>FN</b> Foundations of Natural, Physical, & Applied Sciences course in a second field                       | 3-4            |
| <b>FA ARTHIST 101</b> Survey of Western Art I   | 3              |
| <b>FH</b> Foundations of Humanities course  | 3-4            |
| <b>FS</b> Foundations of Social Sciences course   | 3              |
| <b>FS</b> Foundations of Social Sciences course in a second field   | 3              |
| ART 107, 108 Art Foundations I and II   | 6              |
| ART 109 Foundation Drawing  | 3              |
| ART 209 Introduction to Printmaking   | 3              |
| ART 212 Drawing I   | 3              |
| ART 215 Painting I  | 3              |
| ART 298 Seminar   | 3              |
| ART 311 Drawing II  | 3              |
| ART 312 Human Presence: Drawing   | 3              |
| ART 315 Painting II or<br>ART 319 Human Presence: Painting  | 3              |
| ART 361, ART 362, ART 461, ART 462 Illustration   | 12             |
| <b>FF</b> ART 465 Senior Project in Illustration  | 3              |
| ARTHIST 102 Survey of Western Art II  | 3              |
| Sculpture, ceramics, or art jewelry and metalsmithing   | 3              |

## ART, DESIGN, AND VISUAL STUDIES

|   |     |
|---|-----|
| Upper-division ARTHIST electives                            | 6   |
| ART or ARTHIST electives (5 credits must be upper-division) | 14  |
| Upper-division electives to total 40 credits                | 0-5 |
| Electives to total 120 credits                              | 3-8 |
| Total   | 120 |

| History of Art and Visual Culture Bachelor of Arts   |                |
|--|----------------|
| <i>Course Number and Title</i>   | <i>Credits</i> |
| University Foundations requirements indicated in bold. See page 48 for details and lists of approved courses.  |                |
| <b>UF 100</b> Foundations of Intellectual Life   | 3              |
| <b>UF 200</b> Foundations of Ethics and Diversity  | 3              |
| <b>FW ENGL 101</b> Writing and Rhetoric I  | 3              |
| <b>FW ENGL 102</b> Writing and Rhetoric II   | 3              |
| <b>FC</b> Foundations of Oral Communication  | 3              |
| <b>FM</b> Foundations of Mathematics course  | 3-4            |
| <b>FN</b> Foundations of Natural, Physical, & Applied Sciences course with lab   | 4              |
| <b>FN</b> Foundations of Natural, Physical, & Applied Sciences course in a second field  | 3-4            |
| <b>FA</b> ARTHIST 101 Survey of Western Art I  | 3              |
| <b>FH</b> Foundations of Humanities course in a foreign language   | 3-4            |
| <b>FS</b> Foundations of Social Sciences course  | 3              |
| <b>FS</b> Foundations of Social Sciences course in a second field  | 3              |
| ART 107, 108 Art Foundations I and II  | 6              |
| ART 298 Seminar  | 3              |
| ARTHIST 102 Survey of Western Art II   | 3              |
| ARTHIST 450 Art History Practicum  | 3              |
| <b>FF</b> ARTHIST 452 Methods and Theory in Art History  | 3              |
| ARTHIST 499 Art History Seminar  | 3              |
| One (1) Ancient to Medieval Art course chosen from:<br>ARTHIST 335 Art of the Bronze Age<br>ARTHIST 336 Greek Art<br>ARTHIST 337 Art of Ancient Italy<br>ARTHIST 338 Medieval Art  | 3              |
| One (1) Renaissance to Baroque Art course chosen from:<br>ARTHIST 354 Northern Renaissance Art<br>ARTHIST 355 Italian Renaissance Art<br>ARTHIST 365 Baroque Art<br>ARTHIST 366 Eighteenth Century Art   | 3              |
| One (1) Modern Art course chosen from:<br>ARTHIST 301 Nineteenth Century Art History<br>ARTHIST 302 History of Twentieth Century European Art<br>ARTHIST 370 History of Modern Architecture<br>ARTHIST 371 History of Twentieth Century American Art<br>ARTHIST 373 History of Photography | 3              |
| One (1) Non-Western Art course chosen from:<br>ARTHIST 103 Survey of Far Eastern Art<br>ARTHIST 356 Art of India<br>ARTHIST 359 Pre-Columbian Art<br>ARTHIST 386 Colloquium in Non-Western Art History or relevant special topics course   | 3              |
| 400- level ARTHIST course  | 3              |
| ARTHIST electives (regional or period emphasis)  | 9              |
| Additional foreign language course   | 3-4            |
| HIST 101 World History I   | 3              |

|   |      |
|---|------|
| HIST 102 World History II   | 3    |
| Additional History or Anthropology electives (complementing regional or period emphasis) one of which must be chosen from the following:<br>ANTH 307 Anthropology of Native North America<br>ANTH 312 Prehistory of North America<br>ANTH 320 Latin American Prehistory<br>HIST 262 Witnessing Latin America<br>HIST 310 Forced to Flee: Refugees in European History<br>HIST 341 Native American History<br>HIST 363 History of Mexico<br>HIST 365 Borders and Borderlands in Latin America<br>HIST 368 The Islamic Middle East<br>HIST 369 The Modern Middle East<br>HIST 370 Ottoman History<br>HIST 372 History of Modern Southeast Asia<br>HIST 373 History of Modern China<br>HIST 378 Making of Modern Japan<br>HIST 382 Themes in Non-Western History or relevant special topics course | 6    |
| Upper-division electives to total 40 credits  | 0-16 |
| Electives to total 120 credits  | 7-19 |
| Total   | 120  |

| History of Art and Visual Culture Minor  |                |
|--|----------------|
| <i>Course Number and Title</i>   | <i>Credits</i> |
| ARTHIST 101, 102 Survey of Western Art I and II  | 6              |
| One (1) Ancient to Medieval Art course chosen from:<br>ARTHIST 335 Art of The Bronze Age<br>ARTHIST 336 Greek Art<br>ARTHIST 337 Art of Ancient Italy<br>ARTHIST 338 Medieval Art  | 3              |
| One (1) Renaissance to Baroque Art course chosen from:<br>ARTHIST 354 Northern Renaissance Art<br>ARTHIST 355 Italian Renaissance Art<br>ARTHIST 365 Baroque Art<br>ARTHIST 366 Eighteenth Century Art   | 3              |
| One (1) Modern Art course chosen from:<br>ARTHIST 301 Nineteenth Century Art History<br>ARTHIST 302 History of Twentieth Century European Art<br>ARTHIST 370 History of Modern Architecture<br>ARTHIST 371 History of Twentieth Century American Art<br>ARTHIST 373 History of Photography | 3              |
| One (1) Non-Western Art course chosen from:<br>ARTHIST 103 Survey of Far Eastern Art<br>ARTHIST 356 Art of India<br>ARTHIST 359 Pre-Columbian Art<br>ARTHIST 386 Colloquium in Non-Western Art History   | 3              |
| ARTHIST 452 Methods and Theory in Art History or ARTHIST 499 Seminar   | 3              |
| Total  | 21             |

| Visual Art Minor   |                |
|--|----------------|
| <i>Course Number and Title</i>   | <i>Credits</i> |
| ART 107 Art Foundations I or 108 Art Foundations II  | 3              |
| ART 109 Foundation Drawing   | 3              |
| ARTHIST 101 Survey of Western Art I or ARTHIST 102 Survey of Western Art II  | 3              |
| Two (2) 2-dimensional courses chosen from:<br>ART 209 Introduction to Printmaking<br>ART 212 Drawing I<br>ART 215 Painting I<br>ART 251 Introduction to Creative Photography | 6              |

|  |    |
|--|----|
| Two (2) 3-dimensional courses chosen from:<br>ART 221 Intro to Art Jewelry and Metalsmithing<br>ART 225 or ART 226 Ceramics<br>ART 231 Beginning Sculpture | 6  |
| Upper-division art course  | 3  |
| Total  | 24 |

## Course Offerings

### ART—Art

The Art, Design, and Visual Studies Department reserves the right to withhold selected student work for the Permanent Collections. Certain art courses are subject to a lab fee. Several courses may be repeated for credit. This should be interpreted as taken again for credit, not to replace a previous grade of D or F.

#### Lower Division

**ART 100 INTRODUCTION TO ART (3-0-3)(F, S, SU)(FA).** An introduction to the basic language of Visual Art.

**ART 107 ART FOUNDATIONS I (1-4-3)(F, S).** Introduction to visual language through the examination of structures in art and culture. Develop strategies for interpreting and constructing effective two-dimensional images.

**ART 108 ART FOUNDATIONS II (1-4-3)(F, S).** Exploration of various three-dimensional design methods and their relationship to the cultural context and conceptualization of art objects.

**ART 109 FOUNDATION DRAWING (0-6-3)(F, S).** Introduction to drawing as a system of visual communication. Development and study of perception, form, and content. Introduction to critique.

**ART 209 INTRODUCTION TO PRINTMAKING (0-6-3)(F, S, SU).** Introduction to historical and contemporary printmaking media and techniques and their creative potential. PREREQ: ART 107 and ART 108. COREQ: ART 109 or PERM/INST.

**ART 212 DRAWING I (0-6-3)(F, S).** Drawing from observation and imagination. Exploration of form and content. PREREQ: ART 109.

**ART 215 PAINTING I (0-6-3)(F, S).** Introduction to the fundamentals of painting. Basic technical, formal and conceptual issues in historical and contemporary painting. May be repeated once for credit. PREREQ: ART 109 or PERM/INST.

**ART 221 INTRO TO ART JEWELRY AND METALSMITHING (0-6-3)(F, S).** Basic hand-tool knowledge, soldering, and fabrication of metalworking, adornment, and vessels. Introduction to historical and contemporary art jewelry and metalsmithing.

**ART 225 CERAMICS (0-6-3)(F).** An introduction to various ceramics methods, practices and art concepts as they relate to the medium. Development of art making strategies and knowledge of ceramics history.

**ART 226 CERAMICS (0-6-3)(S).** An introduction to various ceramics methods, practices, concepts and history with additional focus on particular practices and forms of expression to extend media and art related knowledge.

**ART 231 BEGINNING SCULPTURE (0-6-3)(F/S).** Fundamentals of sculpture as a means of three-dimensional expression. Variety of materials and processes including carving, assembly, new media, and installation. PRE/COREQ: ART 108.

**ART 251 INTRODUCTION TO CREATIVE PHOTOGRAPHY (0-6-3)(F, S, SU).** Aesthetic approach to the basic photographic skills of camera operation, film development, and enlargement of negatives. All work in black and white. Adjustable camera required.

**ART 272 DIGITAL TOOLS FOR THE VISUAL ARTS (0-6-3)(F, S).** This course is an introduction to the computer environment, raster based image manipulation, and vector based drawing programs for visual artists. Students will learn both technical and conceptual strategies for computer based visual images. PREREQ: ART 107 and ART 108 or PERM/INST.

**ART 277 GRAPHIC DESIGN STUDIO I (1-4-3)(F).** Exploration in visual communication, typography, and graphic design. Typographic history and nomenclature, verbal and visual syntax, and creative problem solving are stressed. PREREQ: ARTHIST 101, ARTHIST 102, ART 107, and ART 108.

**ART 288 GRAPHIC DESIGN STUDIO II (1-4-3)(S).** Semiotics, iconography, and symbology; digital applications as a developmental tool for design and communication; introduction to professional practices in design. PREREQ: ART 277.

**ART 298 SEMINAR (3-0-3)(F, S).** Introduces challenging and controversial works, practices and problems within contemporary visual culture. Develops critical skills through readings, papers, class discussions, and the examination of various media and types of representation. PREREQ: ENGL 102, ART 107, ART 108, ARTHIST 101, ARTHIST 102.

#### Upper Division

**ART 300 MULTICULTURAL ARTS (2-2-3)(F).** Designed to prepare art and art education majors in the theoretical, historical and practical applications of multicultural art education and education for social justice and equity. Includes an introduction to cultural diversity through appropriate fieldwork experiences and study of multicultural contemporary and folk traditional artists and art works. PREREQ: Admission to Visual Art and 15 credits in ART or ARTHIST.

**ART 303 ART JEWELRY AND METALSMITHING: MULTIPLES (0-6-3)(F/S).** Casting, hydraulic die forming, and other techniques to create multiples. May be repeated once for credit. PREREQ: Admission to Visual Art, ART 221 or PERM/INST.

**ART 304 ART JEWELRY AND METALSMITHING: COLOR (0-6-3)(F/S).** Explore issues of color in art jewelry and metalsmithing. Enameling, stone setting, and alternative color techniques. May be repeated once for credit. PREREQ: Admission to Visual Art, ART 221 or PERM/INST.

**ART 305 STUDIO IN VISUAL DESIGN (0-6-3)(F/S).** Advanced exploration of two-dimensional or three-dimensional design, continuing with problems in line, form, color, texture, and space. PREREQ: ART 107, ART 108, and ARTHIST 101 or ARTHIST 102, or PERM/INST.

**ART 306 CONTEMPORARY CONCEPTS IN METALSMITHING (0-6-3)(F/S).** Advanced design issues and techniques related to conceptual problems with a focus on vessels, hollowware, flatware, and sculptural metalwork. Content varies by term with a focus on individual processes or topics. May be repeated for credit. PREREQ: Admission to Visual Art, ART 221, or PERM/INST.

**ART 307 CONTEMPORARY CONCEPTS IN ART JEWELRY (0-6-3)(F/S).** Advanced exploration of design issues and techniques related to conceptual problems in art jewelry. Content varies by term with a focus on individual processes or topics. May be repeated for credit. PREREQ: Admission to Visual Art, ART 221, or PERM/INST.

**ART 309 PRINTMAKING (0-6-3)(F, S).** Techniques to facilitate one's own personal statement while utilizing sound design practices. May be repeated once for credit. PREREQ: Admission to Visual Art, ART 209.

**ART 311 DRAWING II (0-6-3)(F, S).** Emphasis on contemporary approaches to content, media, format, technique, and composition. May be repeated once for credit. PREREQ: Admission to Visual Art, ART 212.

**ART 312 HUMAN PRESENCE: DRAWING (0-6-3)(F, S).** Emphasis on contemporary approaches to content, media, format, technique and composition related to the human presence. May be repeated once for credit. PREREQ: Admission to Visual Art, ART 212.

**ART 315 PAINTING II (0-6-3)(F, S).** Emphasis on contemporary approaches to content, media, format, technique, and composition. May be repeated once for credit. PREREQ: Admission to Visual Art, ART 212 and ART 215.

**ART 319 HUMAN PRESENCE: PAINTING (0-6-3)(F, S).** Emphasis on contemporary approaches to content, media, format, technique, and composition related to the human presence. May be repeated once for credit.

## ART, DESIGN, AND VISUAL STUDIES

Model fee. PREREQ: Admission to Visual Art, ART 212, ART 215. PRE/COREQ: ART 312.

**ART 321 ELEMENTARY SCHOOL ART METHODS (2-2-3)(F/S/SU).** Examines elementary art curricula, philosophies, and methodologies. Instructional strategies, media, and materials are presented for hands-on exploration, and evaluated according to developmental theory. Emphasis is placed on the integration of art within other elementary content areas. Materials fee. PREREQ: Upper-division standing.

**ART 322 ELEMENTARY SCHOOL ART METHODS FOR ART EDUCATION MAJORS (2-2-3)(S).** Prepares future art education teachers in awareness, skills, theories, and practices in K-8 art education. Child growth and development, curriculum selection and planning, classroom management and assessment strategies, and basic historical and aesthetic learning methods will be addressed. Students will use their technical and artistic skills and mastery with K-8 art materials and will design, teach, and assess art lessons. 30 hours of on-site clinical experience will be arranged. Additional lab hours available. PREREQ: Admission to Visual Art, 15 credits in ART or ARTHIST.

**ART 325 STUDIO IN CERAMICS (0-6-3)(F, S).** Further immersion in ceramics methods, practices, concepts and history. Development of methodologies for realizing self-directed practices, and the commitment to rigorous work practice. May be repeated once for credit. PREREQ: Admission to Visual Art, ART 225 or ART 226.

**ART 326 (CW 326)(ENGL 326) BOOK ARTS (3-0-3)(F, S, SU).** A practical exploration of the history of books as conduits of meaning and as physical objects. Papermaking, typography, printing, binding, authorship, and contemporary bookworks will be examined on both theoretical and practical levels. Students produce a classroom edition. May be taken for CW, ART, or ENGL credit, but not from more than one department. PREREQ for CW 326: ENGL 102; for ENGL 326: ENGL 102; for ART 326: Admission to Visual Art, ART 108.

**ART 331 TRADITIONAL PROCESSES (0-6-3)(F/S).** Intermediate Sculpture course focusing on the traditional processes of modeling and carving in a variety of materials. May be repeated once for credit. PREREQ: Admission to Visual Art, ART 231, or PERM/INST.

**ART 333 3D DIGITAL PROCESSES (0-6-3)(F/S).** Exploration of contemporary digital technologies as a means to conceptualize and output three-dimensional form. Focuses on 3D scanning, 3D modeling software, and rapid prototyping. May be repeated once for credit. PREREQ: Admission to Visual Art, ART 231, or PERM/INST.

**ART 334 ASSEMBLED FORM (0-6-3)(F/S).** Assembled sculpture in wood, metal and mixed media. Concepts of three-dimensional assemblage and installation in contemporary sculpture. Variety of technical processes including welding, wood construction, and methods for assembling mixed materials. May be repeated once for credit. PREREQ: Admission to Visual Art, ART 231, or PERM/INST.

**ART 335 FLEXIBLE FORM (3-3-3)(F/S).** Introduction to contemporary art practices using textiles, fibers, rubber and other flexible materials. Students will be introduced to formlessness as a conceptual strategy, and technical instruction will be given on processes relevant to the production of three-dimensional forms with flexible materials such as soft sculpture, dyeing, weaving and rubber casting. PREREQ: Admission to Visual Art, ART 231, or PERM/INST.

**ART 338 EXPANDED FORMATS (0-6-3)(F/S).** Sculpture course investigating the role of traditional and contemporary media, formats, and techniques in the effective communication of concept. May be repeated once for credit. PREREQ: Admission to Visual Art, ART 231, or PERM/INST.

**ART 339 CAST FORM (0-6-3)(F/S).** Casting processes in sculpture. Mold making and casting techniques with an emphasis on the "lost wax" bronze casting process. May be repeated once for credit. PREREQ: Admission to Visual Art, ART 231, or PERM/INST.

**ART 341 CREATIVE PHOTOGRAPHY (0-6-3)(F/S).** Intermediate study of photographic techniques; emphasis on the creative approach to picture-making

and printing. Adjustable camera required. PREREQ: Admission to Visual Art, ART 251.

**ART 342 DIGITAL PHOTOGRAPHY (0-6-3)(F/S).** An introduction to computer imaging technologies related to photographic image making. PREREQ: Admission to Visual Art, ART 251.

**ART 344 CREATIVE PHOTOGRAPHY, DIGITAL (0-6-3)(F/S).** Study of photographic techniques, emphasis on the creative approach to picture taking using digital technology. Adjustable digital camera required. May be repeated for credit. PREREQ: Admission to Visual Art, ART 342.

**ART 349 ALTERNATIVE PHOTOGRAPHIC PROCESSES (0-6-3)(F/S).** Investigation and synthesis of alternative photographic printing processes and computer technologies. PREREQ: Admission to Visual Art, ART 251 and ART 342.

**ART 351 SECONDARY SCHOOL ART METHODS (2-2-3)(F).** For students expecting to teach art at the junior and senior high school levels. Includes pedagogical, philosophical, and methodological issues and guidelines for grades 6-12 instructional design, development and assessment, essential information about materials, safety, and aesthetics. An educational portfolio and 30 hours of clinical experience are required in a 6-12 setting. PREREQ: Admission to Visual Art, 15 credits in ART or ARTHIST.

**ART 361 ILLUSTRATION I (0-6-3)(F, S).** Survey of historical and contemporary illustration materials, techniques, and styles. Focus on creative communicative solutions to visual problems. PREREQ: ART 107, ART 108, ART 109, and ARTHIST 101 or ARTHIST 102, and junior standing, or PERM/INST.

**ART 362 ILLUSTRATION II (0-6-3)(F, S).** Continued exploration of illustration as a profession and as an expressive communicative medium. Focus on interpretive problem solving. Individually selected media. PREREQ: Admission to Illustration program, ART 361.

**ART 373 INTERDISCIPLINARY PRACTICE (0-6-3)(F, S).** An integrated studio where relevant mediums and materials will be selected based on ideas. Studio work will be based on research into context and history of interdisciplinary art. May include installation, performance, video, participatory strategies and traditional media. May be repeated once for credit. PREREQ: Admission to Visual Art.

**ART 377 GRAPHIC DESIGN STUDIO III (1-4-3)(F).** Integration of design research, studio practice, and peer critique. Continued studies in advanced typographical systems and spatial relationships, form and meaning, cultural context and contemporary issues in graphic design. PREREQ: ART 288 and admission to Graphic Design program.

**ART 383 GRAPHIC DESIGN HAND PROCESS (0-6-3)(F/S).** Creative practice and experimentation in processes historically important to graphic design; including but not limited to papermaking, letterpress printing, screen printing, hand building of dimensional paper objects, and bookbinding. May be repeated once for credit. PREREQ: ART 288.

**ART 385 ADVANCED TYPOGRAPHY (0-6-3)(F/S).** Dealing with complex typographic form and meaning. Emphasis is on typographic space, visual hierarchy, and the communicative use of typographic form. Exploration of typographic systems including the grid and other structural frameworks; design of multi-page documents. PREREQ: ART 377.

**ART 388 GRAPHIC DESIGN STUDIO IV (0-6-3)(S).** Exploration of diverse strategies for developing visual imagery through research and analysis. Conceptual investigation of design involving type and image, aesthetics, intent of message and audience. PREREQ: ART 377.

**ART 400 HISTORY OF VISUAL RHETORIC (3-0-3)(F/S).** Lecture/discussion class in which topics in the history of design, reading, writing, and printing are considered in tandem with ideas and methodologies from critical theory and discourse. Broader awareness of visual culture is developed through research, writing, and presentation. PREREQ: Admission to Visual Art.

**ART 409 STUDIO IN PRINTMAKING (0-6-3)(F, S).** Advanced printmaking techniques and media. May be repeated for credit. PREREQ: Admission to Visual Art, ART 309.

**ART 413 STUDIO (0-6-3)(F, S).** Individual studio problems. May be repeated for credit. PREREQ: Admission to Visual Art, ART 311 and ART 315.

**ART 419 STUDIO IN ART JEWELRY AND METALSMITHING (0-6-3)(F, S).** Individual problems in art jewelry and metalsmithing. May be repeated for credit. PREREQ: Admission to Visual Art, 9 credits from ART 303, ART 304, ART 306, and/or ART 307 or PERM/INST.

**ART 420 APPLIED PROJECTS IN GRAPHIC DESIGN (0-6-3)(F/S).** Students engage in a variety of specially focused design projects, with directed research agendas and/or community outcomes. May be repeated once for credit. PREREQ: Upper-division standing in graphic design and PERM/INST.

**ART 425 STUDIO IN CERAMICS (0-6-3)(F, S).** Advanced study in ceramics methods, practices, concepts and history with directed guidance toward producing independent, professional work. Further development of technical, iconographic and conceptual concerns, and an understanding of the critical, conceptual and theoretical issues surrounding contemporary art. May be repeated for credit. PREREQ: Admission to Visual Art, ART 325.

**ART 431 STUDIO IN SCULPTURE (0-6-3)(F/S).** Individual problems in sculpture. May be repeated for credit. PREREQ: Admission to Visual Art, three of the following courses: ART 331, ART 333, ART 334, ART 335, ART 338, ART 339.

**ART 444 ADVANCED PHOTOGRAPHY (0-6-3)(F, S).** Individual problems in photography. May be repeated for credit. PREREQ: Admission to Visual Art, ART 341 and ART 342.

**ART 461 STUDIO IN ILLUSTRATION (0-6-3)(F, S).** Continued exploration of illustration as a profession and as an expressive communicative medium. Focus on development of an individual voice through advanced interpretive problem solving. May be repeated for credit. PREREQ: Admission to Illustration program, ART 362.

**ART 462 ADVANCED STUDIO IN ILLUSTRATION (0-6-3)(F, S).** More advanced exploration of illustration as a profession and as an expressive communicative medium. Focus on continued development of an individual voice through advanced interpretive problem solving. May be repeated for credit. PREREQ: Admission to Illustration program, ART 461.

**ART 465 SENIOR PROJECT IN ILLUSTRATION (0-6-3)(F, S)(FF).** Culminating original project for illustration majors, including a formal presentation or exhibition. PREREQ: Admission to Illustration program, ART 462.

**ART 473 STUDIO IN INTERDISCIPLINARY PRACTICE (0-6-3)(F, S).** Individual studio problems in interdisciplinary art practices. May include installation, performance, video, participatory strategies and traditional media. May be repeated for credit. PREREQ: Admission to Visual Art, ART 373 or PERM/INST.

**ART 477 GRAPHIC DESIGN STUDIO V (1-4-3)(F).** Professional practices, advanced studio projects requiring visual and conceptual research and development. May include collaborative work and design for community clients. May be repeated once for credit. PREREQ: ART 388.

**ART 483 NEW MEDIA DESIGN (1-4-3)(F/S).** An introduction to the visual and conceptual design of emerging digital technologies, including multimedia, animation, interface and Website design. PREREQ: upper-division standing in Graphic Design and PERM/INST.

**ART 488 GRAPHIC DESIGN STUDIO VI (0-6-3)(S).** Focus on continuing advanced studio problems that emphasize visual and conceptual research and development. Problems may require two- or three-dimensional solutions, written as well as visual materials, collaborative work, and design work with clients from the community. May be repeated once for credit. PREREQ: ART 477.

**ART 490 BFA EXHIBITION (2-0-2)(F, S).** Provides practical knowledge about gallery practices and the creative and business aspects of the visual arts. Students organize a gallery exhibition of their own work and professionally document their work with photographs and artist resume. Art Education, Illustration, and BFA Visual Art candidates only. PREREQ for BFA Art Education and BFA Visual Art candidates: Admission to Visual Art, ART 298, ART 491, senior standing, and COREQ: one of the following studio courses: ART 409, ART 413, ART 419, ART 425, ART 431, ART 444, or ART 473. PREREQ for BFA Illustration candidates: Admission to Illustration, ART 298, and COREQ: ART 465.

**ART 491 SENIOR STUDIO SEMINAR IN VISUAL ARTS (2-0-2)(F, S)(FF).** This course engages students in effective critical inquiry of visual art through contextualizing their work and the work of others. The course includes oral and written critiques of artwork, group discussion about contemporary art issues and the relationship of these issues to student practices, development of student artist statements, and group/individual presentations related to contemporary art issues. PREREQ: Admission to Visual Art, ART 298 and senior standing. COREQ: 300- or 400-level studio art course.

**ART 495 CAPSTONE REVIEW (1-4-3)(S)(FF).** Students prepare a design portfolio and self-promotional strategies to enter the professional market. The class plans and implements an initiative to present portfolios to the professional design community. Students are required to place their work in contemporary context through reading, writing and discussion. PREREQ: ART 298 and ART 477.

#### ARTHIST—Art History

##### Lower Division

**ARTHIST 101 SURVEY OF WESTERN ART I (3-0-3)(F, S, SU)(FA).** An historical survey of painting, sculpture, and architecture from prehistoric art through the Middle Ages.

**ARTHIST 102 SURVEY OF WESTERN ART II (3-0-3)(S).** An historical survey of painting, sculpture, and architecture from the Renaissance to the present.

**ARTHIST 103 SURVEY OF FAR EASTERN ART (3-0-3)(F/S).** A survey of the arts of India, China, Korea, Japan, Tibet, and Southeast Asia, as they developed from the earliest times until the first influences of Western culture.

##### Upper Division

**ARTHIST 301 NINETEENTH CENTURY ART HISTORY (3-0-3)(F/S)(Alternate years).** A study of important artists and movements from Neoclassicism through Post-Impressionism. Critical writing will be assigned. PREREQ: ARTHIST 102 or PERM/INST.

**ARTHIST 302 HISTORY OF TWENTIETH CENTURY EUROPEAN ART (3-0-3)(F/S)(Alternate years).** An analysis of important European artistic movements up to World War II, including Fauvism, German Expressionism, Cubism, Futurism, Constructivism, Dada, and Surrealism. Critical writings will be assigned. PREREQ: ARTHIST 102 or PERM/INST.

**ARTHIST 335 ART OF THE BRONZE AGE (3-0-3)(F/S)(Alternate years).** A survey of the art and architecture of the Bronze Age (3000-1100 BC) Mediterranean civilizations including Egypt, Mesopotamia, Minoan Crete, and Mycenaean Greece. PREREQ: ARTHIST 101 or PERM/INST.

**ARTHIST 336 GREEK ART (3-0-3)(F/S)(Alternate years).** A survey of the art and architecture of ancient Greece, from the Iron Age through the Hellenistic Period (1100-33 BC), with emphasis on the artistic achievements of Classical Athens. PREREQ: ARTHIST 101 or PERM/INST.

**ARTHIST 337 ART OF ANCIENT ITALY (3-0-3)(F/S)(Alternate years).** A survey of the art and architecture of ancient Italy from the time of the Etruscans through the Roman Republic and Imperial Periods (700 BC - 330 AD), with emphasis on the artistic achievements of the Roman Empire. PREREQ: ARTHIST 101 or PERM/INST.

**ARTHIST 338 MEDIEVAL ART (3-0-3)(F/S)(Alternate years).** A survey of the art and architecture of the Medieval world (5th-15th centuries AD) including Byzantine Greece and Turkey, the Islamic Near East and Spain, and

## ART, DESIGN, AND VISUAL STUDIES

Europe from the time of the migrations through the Carolingian, Ottonian, Romanesque, and Gothic periods. PREREQ: ARTHIST 101 or PERM/INST.

**ARTHIST 354 NORTHERN RENAISSANCE ART (3-0-3)(F/S)(Alternate years).** An examination of the painting, sculpture, architecture, and decorative arts of the Netherlands, France, England, and Germany from 1400-1550 and the role these arts played in the culture that produced them. PREREQ: ARTHIST 102 or PERM/INST.

**ARTHIST 355 ITALIAN RENAISSANCE ART (3-0-3)(F/S)(Alternate years).** A survey of the key artistic monuments in Renaissance Italy (1200-1600 AD), from the work of Cimabue to that of Caravaggio. PREREQ: ARTHIST 102 or PERM/INST.

**ARTHIST 356 ART OF INDIA (3-0-3)(F/S)(Alternate years).** A survey of the art and architecture of India from the earliest times until the end of the Mughal period, emphasizing artistic expression as a reflection of the general culture and religion. PREREQ: ARTHIST 103 or PERM/INST.

**ARTHIST 359 PRE-COLUMBIAN ART (3-0-3)(F/S)(Alternate years).** A survey of the Middle American art of the Olmecs, Nayarit, Colima, Maya, Teotihuacan, Zapotecs, Toltecs, and Aztecs from ancient times until the arrival of the Spanish in the 16th century. PREREQ: ARTHIST 101 or ARTHIST 102 or ARTHIST 103 or PERM/INST.

**ARTHIST 365 BAROQUE ART (3-0-3)(F/S)(Alternate years).** A survey of European visual culture during the late sixteenth and seventeenth centuries. Emphasis will be placed on the relationship of the arts to such concurrent events as the exploration and expansion into the New World, urban growth, the development of nation-states, and religious controversy. PREREQ: ARTHIST 102 or PERM/INST.

**ARTHIST 366 EIGHTEENTH CENTURY ART (3-0-3)(F/S)(Alternate years).** A survey of the art of the Enlightenment from the time of Louis XIV through the Napoleonic Wars. Emphasis will be placed on the relationship between eighteenth century visual culture and developments in science, philosophy, and the changing political and social ideologies of the newly industrial nations of Europe and North America. PREREQ: ARTHIST 102 or PERM/INST.

**ARTHIST 370 HISTORY OF MODERN ARCHITECTURE (3-0-3)(F/S)(Alternate years).** History of modern architecture from mid-18th through late 20th centuries. PREREQ: ARTHIST 102 or PERM/INST.

**ARTHIST 371 HISTORY OF TWENTIETH CENTURY AMERICAN ART (3-0-3)(F/S)(Alternate years).** Beginning with a short survey of American art from the Ashcan School through the Thirties, with concentration on Abstract Expressionism, Pop, Op, and Minimal. PREREQ: ARTHIST 102 or PERM/INST.

**ARTHIST 373 HISTORY OF PHOTOGRAPHY (3-0-3)(F/S).** Examines key photographers, movements and critical debates in photography. Emphasis on developing student's proficiency at analyzing and interpreting photographs. PREREQ: ARTHIST 102.

**ARTHIST 386 COLLOQUIUM IN NON-WESTERN ART HISTORY (3-0-3)(F/S).** Intensive studies of a particular period, topic or problem in non-western art history. Lecture and discussion format will address critical issues in non-western art. Consult current class schedule for specific selections offered each term. May be repeated. PREREQ: ARTHIST 101 and ARTHIST 102, or ARTHIST 103, or PERM/INST.

**ARTHIST 450 ART HISTORY PRACTICUM (3-0-3)(F, S).** Directed practical experience in organizing and illustrating art history classes, leading exam review sessions, and evaluating student performance. Students will receive credit for working as an assistant in selected classes designated by art history faculty each semester. May be repeated for a maximum of 6 credit hours. PREREQ: 12 credits of art history and PERM/INST.

**ARTHIST 451 CONTEMPORARY CONCEPTS IN ART (3-0-3)(F/S)(Alternate years).** An exploration of contemporary art in the context of current theoretical concepts. The pluralistic nature of art during the postmodern era will be emphasized and recent developments in criticism will be introduced. Critical writings will be assigned. PREREQ: ARTHIST 302, ARTHIST 371, or PERM/INST.

**ARTHIST 452 METHODS AND THEORY IN ART HISTORY (3-0-3)(F/S)(Alternate years).** A critical analysis of the historiographical, theoretical, and methodological approaches taken by art historians in their considerations and interpretation of visual culture, past and present. PREREQ: ART 298, ARTHIST 101, ARTHIST 102, and 3 credits of upper-division art history.

# Arts Entrepreneurship Minor

College of Arts and Sciences | School of the Arts

Education Building  
(208) 426-1414 (phone)  
schoolofthearts@boisestate.edu (email)

Director: Kathleen Keys

## Program Offered

- Minor in Arts Entrepreneurship

## Program Statement

The Minor in Arts Entrepreneurship helps students position themselves as emerging microbusinesses able to respond to the demands of a diversified, contemporary economy. This course of study assists students as they put their artistic skills to work. It will show students the ways the arts have impact across creative industries, and help them appreciate the ways that innovative artistic and creative skills are transferable and adaptable to other sectors such as technology, health care, business, community development, and government.

While the Minor in Arts Entrepreneurship will serve students with arts majors especially well, it will also serve students who want to add an Arts Entrepreneurship credential to any major.

## Program Requirements

| Arts Entrepreneurship Minor  |         |
|--|---------|
| Course Number and Title  | Credits |
| AE 101 Working Artists in the 21st Century   | 3       |
| AE 105 Preparing for Creative Careers  | 1       |
| AE 201 Entrepreneurship & Innovation in the Creative Sector  | 3       |
| Take one (1) of the following:<br>Experiential Learning Track<br>AE 293/493 Arts Entrepreneurship Internship or<br>AE 479 Undergraduate Research Experience<br>Or<br>Business Foundations Track<br>BUSBTC 301 Business Foundations I<br>BUSBTC 302 Business Foundations II | 3-6     |
| Take two (2) of the following:<br>AE 401 Marketing and the Arts<br>AE 402 Finance and Fundraising for the Arts<br>THEA 440 Arts Management   | 6       |
| ENGL 314 Proposal Development or<br>ENGL 408 Writing for Nonprofits and Software Documentation   | 3       |
| AE 294/494 Arts Entrepreneurship Workshops   | 3       |
| Total  | 22-25   |

## Course Offerings

### AE—Arts Entrepreneurship

#### Lower Division

**AE 101 WORKING ARTISTS IN THE 21ST CENTURY (3-0-3)(F, S).** A topical course exploring the roles artists play nationally and internationally; the impact of various forms of policy on artistic lives and businesses; how skill sets from different disciplines might combine in innovative ways; how the arts can effect change beyond the creative sector; and how the role of the artist has changed over time in the artistic and popular imaginations. This class will have a service learning or other experiential learning component.

**AE 105 PREPARING FOR CREATIVE CAREERS (1-0-1)(F, S).**

Community artists and artists working beyond the creative sector participate on a series of panels giving students an opportunity to reflect on key issues that will shape their careers.

**AE 201 ENTREPRENEURSHIP AND INNOVATION IN THE CREATIVE SECTOR (3-0-3)(F, S).** Students research and analyze innovation across creative industries; learn how to develop their own ideas and test for feasibility; and then build a business plan. PREREQ: ENGL 102.

**AE 294/494 ARTS ENTREPRENEURSHIP WORKSHOPS (1-0-1)(F, S).**

Possible topics include Pop-Ups, Public Art, The Pitch, Intellectual Property and the Arts, Employment Law and the Arts, Arts Festivals, Best Practices in Self-Producing, The Creative City, and Art as Social Practice. Course may be repeated for credit.

#### Upper Division

**AE 401 MARKETING AND THE ARTS (3-0-3)(F).** Analyzes audiences for the arts and creative products or services, types of messages, and delivery methods to determine how to most effectively distribute messages to target markets; helps emerging artists identify the variety of ways their skills have value. PREREQ: ENGL 102 and upper-division standing.

**AE 402 FINANCE AND FUNDRAISING FOR THE ARTS (3-0-3)(S).** Covers basic accounting, forecasting, budgeting procedures, and financial reporting for both nonprofit and commercial arts entities, as well as philanthropy, fundraising, and crowdsourcing. PREREQ: upper-division standing.

## Associate of Arts and Associate of Science Degrees

College of Arts and Sciences

(208) 426-2663 (phone)

coas-advising@boisestate.edu (email)

### Degrees Offered

- Associate of Arts
- Associate of Science

### Program Statement

These associate degree programs focus on general education requirements and comply with the Idaho Statewide Articulation Policy. Coursework is to be selected from the University Foundations Program and elective courses in the student's area(s) of interest.

### Degree Requirements

| Associate of Arts or Associate of Science   |           |
|---|-----------|
| Course Number and Title   | Credits   |
| University Foundations requirements indicated in bold. See page 48 for details and lists of approved courses.   |           |
| <b>UF 100</b> Foundations of Intellectual Life  | 3         |
| <b>UF 200</b> Foundations of Ethics and Diversity   | 3         |
| <b>FW ENGL 101</b> Writing and Rhetoric I   | 3         |
| <b>FW ENGL 102</b> Writing and Rhetoric II  | 3         |
| <b>FC</b> Foundations of Oral Communication   | 3         |
| <b>FM</b> Foundations of Mathematics course   | 3-4       |
| <b>FN</b> Foundations of Natural, Physical, & Applied Sciences course with lab  | 4         |
| <b>FN</b> Foundations of Natural, Physical, & Applied Sciences course in a second field   | 3-4       |
| <b>FA</b> Foundations of Arts course  | 3         |
| <b>FH</b> Foundations of Humanities course  | 3-4       |
| <b>FS</b> Foundations of Social Sciences course   | 3         |
| <b>FS</b> Foundations of Social Sciences course in a second field   | 3         |
| Electives to total 60 credits   | 20-23     |
| <b>Total</b>  | <b>60</b> |
| This program complies with the Idaho Statewide Articulation Policy. Second degree-seeking students are not eligible to earn a general Associate of Arts or Science degree. Students earning the general AA degree are not eligible to earn the general AS degree. The general AA or AS degree may not be earned with or after any other associate degree. |           |

### Course Offerings

#### ARTSCI—Arts and Sciences

**ARTSCI 150/ARTSCI 250 RESIDENTIAL COLLEGE: ARTS AND SCIENCES (1-0-1)(F/S).** The Housing and Residence Life Arts and Sciences Residential College community provides a seamless educational experience for students from a variety of majors within the college of Arts and Sciences committed to a well-rounded education. Students participate in activities to explore ideas and values represented in the arts and sciences. Coursework in this living-learning community will challenge the learner to reflect on the human condition as it is revealed through the arts, literature, sciences, and philosophy. May be repeated for credit. PREREQ: PERM/INST.

## Biomedical Engineering Minor

College of Arts and Sciences/College of Engineering

Charles P. Ruch Engineering Building, Room 201

(208) 426-4078 (phone)

*Coordinator:* Trevor Lujan. *Advisors-Biology:* Jorcyk, Oxford, Rohn, Serpe, Smith, Tinker, Wingett, Yu. *Chemistry:* Charlier, Cornell, Schimpf, Shadle, Warner. *Engineering:* Barney Smith, Butt, Callahan, Fitzpatrick, Frary, Gardner, Guarino, Hughes, Knowlton, Lujan, Moll, Mullner, Uzer. *Kinesiology:* McChesney, Pfeiffer, Simonson. *Physics:* Kim.

### Degree Offered

- Minor in Biomedical Engineering

### Program Statement

The biomedical engineering minor is an interdisciplinary program that is designed to help prepare students with majors in engineering, kinesiology, or the natural sciences for bioengineering graduate school, medical school, or careers in the biomedical industry.

### Program Requirements

| Biomedical Engineering Minor  |              |
|---|--------------|
| Course Number and Title   | Credits      |
| BIOL 191 Biology I: Intro to Cell and Molecular Biology   | 4            |
| BIOL/ME/MSE 477 Biomaterials  | 3            |
| ENGR 210 Engineering Mechanics I*   | 3            |
| ME 112 Introduction to Biomedical Engineering   | 1            |
| ME 356 Introduction to Solid Biomechanics   | 3            |
| One (1) of the following science courses:<br>BIOL 227 Human Anatomy and Physiology I<br>CHEM 301 Survey of Organic Chemistry<br>CHEM 307, 308 Organic Chemistry I and Lab   | 4-5          |
| One (1) of the following engineering courses:<br>ENGR 220 Engineering Mechanics II<br>MSE 245 Intro to Materials Science and Engineering  | 3            |
| One (1) of the following electives:<br>BIOL 192 Biology II: Introduction to the Diversity of Life<br>BIOL 227-228 Human Anatomy and Physiology I & II<br>BIOL 320 Cell Biology<br>CHEM 307, 308 Organic Chemistry I and Lab<br>CHEM 309, 310 Organic Chemistry II and Lab<br>CHEM 431 Biochemistry I<br>ECE 457 Digital Image Processing<br>KINES 270 Applied Anatomy<br>KINES 370, 371 Biomechanics and Lab<br>MSE 488 Environmental Degradation of Materials<br>MSE 497 Synthetic Biomolecular Engineering<br>PHYS 307 Introduction to Biophysics | 3-5          |
| <b>Total</b>  | <b>24-27</b> |
| *NOTE: ENGR 210 requires MATH 170 and PHYS 211 as prerequisites.  |              |



# Bachelor of Applied Science

College of Arts and Sciences

1023 South Grant Avenue  
(208) 426-3496 (phone)  
appliedscience@boisestate.edu (email)  
<https://www.boisestate.edu/appliedscience/> (website)

*Director:* Jon Schneider. *Associate Director:* Alexis Kenyon. *Academic Advising Coordinator:* Natalie Newell. *Advisors:* Dan Brock, Brian Chojnacky, Brooke Dolecheck, Larissa Monckton. *Student Success Coaches:* Heather Ropelato, Josh Taufalele. *Clinical Instructors:* Bennett, Lawley. *Lecturers:* Mahoney, Sass.

## Degree Offered

- Bachelor of Applied Science

## Program Statement

The Bachelor of Applied Science (BAS) is a baccalaureate degree designed for applied technology students who choose to complete the requirements associated with a full baccalaureate program.

The purpose of the degree is to provide students the opportunity to combine applied technology coursework with both general education and elective coursework. Building upon the learning outcomes of their Associate of Applied Science (AAS) program, students achieve the learning outcomes of the university foundations studies curriculum. Additionally, students cluster a portion of their elective coursework within one or more academic disciplines resulting in specialized knowledge designed to complement their technical coursework and enhance their career potential.

## Admission Requirements

1. BAS applicants must have earned an AAS before being admitted into the program.
  - a. The AAS must be from a program approved by the Idaho State Board of Education.
  - b. Out-of-state AASs must be evaluated for meeting Idaho State Board of Education standards. This includes:
    - The AAS program that awarded the degree must be from an institution accredited by a regional accrediting association as reported in Accredited Institutions of Post-Secondary Education.
    - The AAS must have a minimum of 60 credits or equivalent quarter credits.
2. Students must apply through the Admissions. For details, see Chapter 3—*Admissions*.
3. Once admitted, the applicant must submit an *Application for Acceptance into the Bachelor of Applied Science Program* form.

## Degree Requirements

| Bachelor of Applied Science   |         |
|---|---------|
| Course Number and Title   | Credits |
| University Foundations requirements indicated in bold. See page 48 for details and lists of approved courses. |         |
| <b>UF</b> 200 Foundations of Ethics and Diversity   | 3       |
| <b>FW</b> ENGL 101 Writing and Rhetoric I   | 3       |
| <b>FW</b> ENGL 102 Writing and Rhetoric II  | 3       |
| <b>FC</b> Foundations of Oral Communication   | 3       |
| <b>FM</b> Foundations of Mathematics course   | 3-4     |
| <b>FN</b> Foundations of Natural, Physical, & Applied Sciences course with lab                                | 4       |
| <b>FN</b> Foundations of Natural, Physical, & Applied Sciences course in a second field                       | 3-4     |
| <b>FA</b> Foundations of Arts course  | 3       |

|   |     |
|---|-----|
| <b>FH</b> Foundations of Humanities course  | 3-4 |
| <b>FS</b> Foundations of Social Sciences course   | 3   |
| <b>FS</b> Foundations of Social Sciences course in a second field   | 3   |
| Technical Education credits from a technical associate degree (AAS or equivalent) awarded by a regionally accredited institution.                                 | 40  |
| BAS 305 Introduction to the Applied Sciences  | 1   |
| BAS 492 Proposal for Capstone Project   | 1   |
| <b>FF</b> BAS 495 Capstone Project  | 2   |
| MDS 315 Integrative Learning  | 2   |
| MDS 375 Perspective Taking  | 3   |
| MDS 385 Asking Questions and Framing Problems   | 3   |
| In addition, complete the requirements of either the Flex Track or the Online Track to graduate with a Bachelor of Applied Science.                               |     |
| <b>Flex Track</b>   |     |
| Emphasis Area(s)<br>Select 18 upper-division credits from one or more emphasis areas. Emphasis area(s) must be approved by the student's advisor. *               | 18  |
| Upper-division electives to total 40 credits*   | 10  |
| Electives to total 120 credits  | 3-6 |
| Total   | 120 |
| <b>Online Track</b>   |     |
| Emphasis Area(s)<br>Select 18 upper-division credits from one or more online emphasis areas. Online emphasis area(s) must be approved by the student's advisor. * | 18  |
| Upper-division electives to total 40 credits*   | 10  |
| Electives to total 120 credits  | 3-6 |
| Total   | 120 |
| *493 Internship, 494 Conference or Workshop, and 496 Independent Study are limited to a combined total of nine (9) credits.                                       |     |

## Course Offerings

### BAS—Bachelor of Applied Science

**BAS 305 INTRODUCTION TO THE APPLIED SCIENCES (1-0-1)(F/S/SU).** Explore academic and career goal-setting, the connection of theory to practice, academic culture, academic integrity, the vital nature of an academic support community, and the qualities of a reflective and adaptive learner. PREREQ: Admission to the BAS Program.

**BAS 425 CREATING A CULTURE OF SAFETY (3-0-3)(F/S/SU).** Study of safety as a vital element of human behavior in society, business, and industry. Examines the safety responsibilities of leaders, managers, and supervisors, focuses on developing skills in planning, implementation, awareness, monitoring, and risk management, and covers governmental influence, hazard awareness and control, operational considerations in the workplace, accidents, and planning. COREQ: BAS 305 or MDS 305 or PERM/INST.

**BAS 492 PROPOSAL FOR CAPSTONE PROJECT (1-0-1)(F/S/SU).** Design and plan a personally and professionally relevant capstone project. COREQ: MDS 375 and MDS 385 and PERM/INST.

**BAS 493 INTERNSHIP (Variable Credit)(F/S/SU).** Supervised fieldwork related to a specific Area of Emphasis. PREREQ: BAS 305 and PERM/INST.

**BAS 495 CAPSTONE PROJECT (2-0-2)(F/S/SU)(FF).** Finalize and present an approved capstone project and write a culminating self-evaluation. COREQ: BAS 492 and PERM/INST.

# Department of Biological Sciences

College of Arts and Sciences

Science Building, Room 107  
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 bioinfo@boisestate.edu (email)  
<https://www.boisestate.edu/biology/> (website)

*Chair and Professor:* Kevin Feris. *Professors:* Belthoff, Hampikian, Heath, Jorcyk, Koetsier, Munger, Novak, Oxford, Robertson, Rohn, Serpe, Smith, White, Wingett. *Associate Professors:* Albig, Barber, de Graaff, Forbey, Hayden, Mitchell, Morrison, Tinker. *Assistant Professors:* Bittleston, Buerki, Caughlin. *Clinical Assistant Professors:* Meredith, Ulappa. *Lecturers:* Hanley, Koob, Sherburne, Urquhart.

## Degrees Offered

- Bachelor of Science in Biology
  - Cellular, Molecular, and Biomedical Emphasis
  - Ecology, Evolution, and Behavior Emphasis
  - Secondary Education Emphasis
- Minor in Biology
- Minor in Biological Science Teaching Endorsement
- Pre-Forestry and Pre-Wildlife Management

## Department Statement

For complete advising information, please visit <https://www.boisestate.edu/biology/>.

The bachelor's degree in biology provides students with the intellectual and technical skills to succeed in a multitude of careers (e.g., medicine, forensics, genetics, laboratory sciences, natural resources management, animal biology, plant biology, etc.). Students gain an understanding of living organisms, of how organisms interact with their environment, and of the process of biological investigation. The curriculum provides students with a knowledge base in molecular, cellular, organismal, ecological, and evolutionary biology, as well as allowing emphasis in the cellular, molecular and biomedical area, the ecology, evolution, and behavior area, and the secondary education field.

Our Pre-Medical, Pre-Dental, Pre-Veterinary, Pre-Chiropractic, and Pre-Physician Assistant students who graduate with a degree in biology are highly successful at gaining admission to excellent professional schools, and they typically find themselves better prepared than their cohorts from other institutions. Biology graduates have also been very successful at gaining admission to MS and PhD programs. Other students have begun working in their field immediately after completing their BS degree. Finally, graduates find that the skills developed and knowledge acquired as biology students benefit them in non-biological fields.

The Department of Biological Sciences also offers a BS in Biology, Secondary Education so students may obtain teaching certification and pursue a teaching career at the secondary school level.

A nondegree curriculum in Pre-Forestry and Pre-Wildlife Management allows students to complete coursework at Boise State University before transferring to a program at another institution. Alternatively, one can major in biology at Boise State and pursue coursework to meet education requirements to become a Certified Wildlife Biologist by The Wildlife Society (see <http://wildlife.org/learn/professional-development-certification/>). Many students have secured wildlife and fisheries positions with a biology degree from Boise State.

Acquisition of experience outside the classroom is often important in the pursuit of biological careers. To gain such experience, students may participate in research projects, either assisting faculty or developing student-initiated projects. Undergraduate research can be an exciting intellectual journey. Students may also pursue internships with government agencies, businesses, hospitals, and other professionals in the area.

**New Biology Students** should take 1) the appropriate mathematics course (determined by placement exam) in their first semester at Boise State, 2) begin course sequences in biology and chemistry as soon as possible, 3) obtain academic advising each semester, 4) visit <https://www.boisestate.edu/biology/>, and 5) visit undergraduate advising information at <https://www.boisestate.edu/biology/undergraduate-advising>.

## Degree Requirements

| Biology Bachelor of Science  |         |
|--|---------|
| Course Number and Title  | Credits |
| University Foundations requirements indicated in bold. See page 48 for details and lists of approved courses.  |         |
| <b>UF 100</b> Foundations of Intellectual Life   | 3       |
| <b>UF 200</b> Foundations of Ethics and Diversity  | 3       |
| <b>FW ENGL 101</b> Writing and Rhetoric I  | 3       |
| <b>FW ENGL 102</b> Writing and Rhetoric II   | 3       |
| <b>FC</b> Foundations of Oral Communication (COMM 101 recommended)   | 3       |
| <b>FM MATH 160</b> Survey of Calculus or <b>FM MATH 170</b> Calculus I   | 4       |
| <b>FN BIOL 191</b> Biology I: Intro to Cell and Molecular Biology  | 4       |
| <b>FN CHEM 111, 111L</b> General Chemistry I with Lab  | 4       |
| <b>FA</b> Foundations of Arts course   | 3       |
| <b>FH</b> Foundations of Humanities course   | 3-4     |
| <b>FS ED-CIFS 201</b> Education, Schooling, and Society (Secondary Education Emphasis) or <b>FS</b> Foundations of Social Sciences course  | 3       |
| <b>FS</b> Foundations of Social Sciences course in a second field  | 3       |
| <b>BIOL 192</b> Biology II: Introduction to the Diversity of Life  | 4       |
| <b>BIOL 304</b> Biology III: Foundations of Ecology & Evolution  | 4       |
| <b>BIOL 310</b> Genetics   | 3       |
| <b>BIOL 488</b> Senior Outcomes Assessment   | 0       |
| <b>CHEM 112, 112L</b> General Chemistry II & Lab   | 4       |
| <b>CHEM 301</b> Survey of Organic Chemistry (and <b>CHEM 308</b> ) or <b>CHEM 307, 308-309, 310</b> Organic Chemistry I & II with Labs (CHEM 301 is suitable for most biology majors. Those interested in medical, dental, pharmacy, veterinary school and students pursuing the Cell, Molecular, and Biomedical emphases should take CHEM 307-310. Please consult your advisor.)  | 5-10    |
| Two (2) or more of these communication courses including at least one (1) COMM course:<br><b>BIOL 306</b> Communication in the Biological Sciences<br><b>COMM 112</b> Reasoned Discourse<br><b>COMM 231</b> Public Speaking<br><b>COMM 356</b> Communication in the Small Group<br><b>ENGL 201</b> Nonfiction Writing<br><b>ENGL 212</b> Technical Communication<br>(COMM 112 may be counted as fulfilling all or part of <b>FS</b> requirements)<br>Secondary Education Emphasis students:<br>One (1) <b>FS COMM</b> course plus <b>STEM-ED 310</b> | 6       |
| <b>MATH 143</b> College Algebra  | 3       |
| <b>MATH 144</b> Precalculus II: Trigonometric Functions  | 2       |
| <b>MATH 254</b> Introduction to Statistics   | 3       |
| <b>PHYS 111-112</b> General Physics I & II or <b>PHYS 211, 211L-212, 212L</b> Physics I & II w/Calculus & Labs   | 8-10    |
| <b>FF BIOL 415</b> Microbial Physiology<br><b>FF BIOL 485</b> Finishing Foundations Undergraduate Research and Internships in the Biological Sciences<br><b>FF BOT 401</b> Plant Physiology<br><b>FF ZOOL 401</b> Human Physiology<br><b>FF ZOOL 409</b> Animal Physiology and Nutrition   | 1-4     |

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| In addition, complete either the following coursework to graduate with a BS in Biology (without an emphasis) or complete the courses listed under one of the emphases below to graduate with a BS in Biology with an emphasis in either the Cellular, Molecular, and Biomedical Emphasis or the Ecology, Evolution, and Behavior Emphasis. To earn a BS in Biology with a Secondary Education Emphasis, complete the following coursework listed for the BS in Biology (without an emphasis) and the coursework listed under the Secondary Education Emphasis.  |       |
| BIOL 320 Cell Biology   | 3     |
| BIOL 400 Organic Evolution  | 3     |
| CMB course with a lab (see courses under Cell, Molecular, and Biomedical Emphasis)  | 4     |
| CMB course with or without a lab  | 3-4   |
| EEB course with a lab (see courses under Ecology, Evolution, and Behavioral Biology Emphasis)   | 4     |
| EEB course with or without a lab  | 3-4   |
| Physiology (one course)<br>FF BIOL 415 Microbial Physiology<br>FF BOT 401 Plant Physiology<br>FF ZOOL 401 Human Physiology<br>FF ZOOL 409 Animal Physiology and Nutrition   | 0-4   |
| Upper-division elective to total 40 credits   | 0-3   |
| Electives to total 120 credits  | 2-11  |
| Total   | 120   |
| <b>Cellular, Molecular, and Biomedical Emphasis</b>   |       |
| BIOL 320 Cell Biology   | 3     |
| BIOL 340 Molecular Biology Lecture or<br>BIOL 303 General Microbiology (counts as one of two courses with lab)  | 3-5   |
| BIOL 321 Cell Biology Laboratory or<br>BIOL 344 Molecular Biology Laboratory  | 2-3   |
| Five (5) or more additional courses chosen from the following for a minimum of 17 credits, at least 2 of the 5 courses must have a laboratory component identified by the *. (BIOL 303 can count as a lab)<br><br>BIOL 321 Cell Biology Laboratory*<br>BIOL 344 Molecular Biology Laboratory*<br>BIOL 410 Pathogenic Bacteriology*<br>BIOL 412 General Parasitology*<br>BIOL 415 Microbial Physiology*<br>BIOL 420 Immunology<br>BIOL 431 Pharmacology<br>BIOL 440 Toxicology<br>BIOL 441 Molecular Biology of Cancer<br>BIOL 442 Molecular Neurobiology<br>BIOL 444 Vaccinology<br>BIOL 446 Bioinformatics<br>BIOL 447 Forensic Biology<br>BIOL 449 Genomics<br>BIOL 451 Developmental Biology<br>BIOL 452 Developmental Biology Laboratory*<br>BIOL 454 App of Mass Spectrometry in Biological Research<br>BIOL 456 Advanced Histology Laboratory*<br>BIOL 465 Adv Topics in Molecular Biology Techniques<br>BIOL 466 Adv Topics in Molecular, Cellular, & Dev Biology<br>BIOL 477 Biomaterials<br>BOT 330 Mycology*<br>BOT 401 Plant Physiology*<br>BOT 430 Molecular and Cellular Biology of Plants<br>BOT 441 Plant Developmental Biology*<br>CHEM 350 Fundamentals of Biochemistry<br>CHEM 431 Biochemistry I*<br>CHEM 433 Biochemistry II*<br>PHYS 307 Introduction to Biophysics*<br>ZOOL 301 Comparative Vertebrate Anatomy*<br>ZOOL 400 Vertebrate Histology*<br>ZOOL 401 Human Physiology<br>ZOOL 402 Human Endocrinology<br>ZOOL 403 Head and Neck Anatomy*<br>ZOOL 409 Animal Physiology and Nutrition*<br>ZOOL 411 Human Physiology Laboratory* | 17-24 |

|   |         |
|---|---------|
| Electives to total 120 credits<br>Professional programs may require BIOL 227-228; CHEM 350  | 0-9     |
| Total   | 120-128 |
| <b>Ecology, Evolution, and Behavior Emphasis</b>  |         |
| Five (5) or more additional courses chosen from the following for a minimum of 17 credits, at least 2 of the 5 courses must have a laboratory component identified by the *.<br>BIOL 303 General Microbiology*<br>BIOL 320 Cell Biology<br>BIOL 323 Ecology*<br>BIOL 344 Molecular Biology Laboratory*<br>BIOL 400 Organic Evolution<br>BIOL 406 Science and Society<br>BIOL 409 Molecular Ecology<br>BIOL 410 Pathogenic Bacteriology*<br>BIOL 412 Parasitology*<br>BIOL 413 Symbiosis<br>BIOL 415 Microbial Physiology*<br>BIOL 416 Microbial Ecology*<br>BIOL 422 Conservation Biology<br>BIOL 424 Sensory Ecology<br>BIOL 425 Basic and Applied Data Analysis in Biology*<br>BIOL 426 Insect Ecology<br>BIOL 427 Stream Ecology*<br>BIOL 433 Behavioral Ecology<br>BIOL 434 Principles of Fisheries and Wildlife Management<br>BIOL 435 Ecosystem Ecology<br>BIOL 451 Developmental Biology<br>BIOL 461 Advanced Topics in Aquatic Ecology<br>BIOL 462 Advanced Topics in Animal Behavior<br>BIOL 463 Advanced Topics in Genetic Analysis<br>BOT 302 Plant Anatomy and Microtechnique*<br>BOT 305 Systematic Botany*<br>BOT 330 Mycology*<br>BOT 401 Plant Physiology*<br>BOT 424 Plant Community Ecology*<br>BOT 430 Molecular and Cellular Biology of Plants<br>BOT 441 Plant Developmental Biology*<br>ZOOL 301 Comparative Vertebrate Anatomy*<br>ZOOL 305 Entomology*<br>ZOOL 341 Ornithology*<br>ZOOL 355 Vertebrate Natural History*<br>ZOOL 400 Vertebrate Histology*<br>ZOOL 409 Animal Physiology and Nutrition *<br>ZOOL 421 Mammalogy*<br>ZOOL 425 Aquatic Entomology*<br>ZOOL 434 Animal Behavior* | 17-24   |
| Upper-division ANTH, BIOL, BOT, CHEM, PHYS or ZOOL electives to total 42 Biology credits  | 0-6     |
| Electives to total 120 credits<br>Professional programs may require BIOL 227-228; CHEM 350  | 0-11    |
| Total   | 120-122 |
| <b>Secondary Education Emphasis</b>   |         |
| STEM-ED 101 Step 1: Inquiry Approaches to Teaching  | 1       |
| STEM-ED 102 Step 2: Inquiry-based Lesson Design   | 1       |
| STEM-ED 210 Knowing & Learning in Math & Science  | 3       |
| STEM-ED 220 Philosophical Perspectives on Science and Mathematics   | 3       |
| STEM-ED 310 Classroom Interactions  | 3       |
| STEM-ED 350 Research Methods  | 3       |
| STEM-ED 410 Project-based Instruction   | 3       |
| STEM-ED 480 Apprentice Teaching   | 6       |
| Total   | 129-141 |

| Biology Minor<br>or<br>Biological Science Teaching Endorsement Minor  |                |
|---|----------------|
| <i>Course Number and Title</i>  | <i>Credits</i> |
| BIOL 191 Biology I: Intro to Cell and Molecular Biology   | 4              |
| BIOL 192 Biology II: Introduction to the Diversity of Life  | 4              |
| BIOL 304 Biology III: Foundations of Ecology & Evolution  | 4              |
| BIOL 310 Genetics   | 3              |
| BIOL 400 Organic Evolution or upper-division BIOL, BOT, or ZOOL electives   | 5              |
| Total   | 20             |
| This Teaching Endorsement Minor does not certify you to teach. For more information on becoming a teacher please contact the Office of Teacher Education. |                |

The pre-forestry and pre-wildlife management program is designed to satisfy the lower-division coursework typically completed during the freshman and sophomore year in a school of forestry and natural resources. For their junior and senior years, students wishing to earn a bachelor's degree in this area of study may transfer to the University of Idaho, College of Forestry, Wildlife, and Range Sciences or a similar program at another institution. Alternatively, students may choose to earn a BS degree in biology from Boise State and guide their elective coursework to help qualify for professional certification, e.g., through the The Wildlife Society (see <http://wildlife.org/learn/professional-development-certification/> for details). Moreover, a BS in Biology from Boise State provides excellent preparation for master's and PhD programs in wildlife and fisheries biology.

| Pre-Forestry and Pre-Wildlife Management  |                |
|---|----------------|
| <i>Course Number and Title</i>  | <i>Credits</i> |
| ENGL 101-102 Writing and Rhetoric I, II   | 6              |
| ENGL 212 Technical Communication  | 3              |
| COMM 101 Fundamentals of Oral Communication   | 3              |
| ECON 202 Principles of Microeconomics   | 3              |
| BIOL 191 Biology I: Intro to Cell and Molecular Biology   | 4              |
| BIOL 192 Biology II: Introduction to the Diversity of Life  | 4              |
| BIOL 304 Biology III: Foundations of Ecology & Evolution  | 4              |
| CHEM 101, 101L Introduction to Chemistry & lab  | 4              |
| CHEM 102, 102L Essentials of Organic & Biochemistry & Lab   | 4              |
| ITM 104 Operating Systems & Word Processing Topics and<br>ITM 105 Spreadsheet Topics and<br>ITM 106 Database Topics   | 4              |
| MATH 160 Survey of Calculus or<br>MATH 170 Calculus I   | 4              |
| MATH 254 Introduction to Statistics   | 3              |
| Total   | 46             |
| Other courses offered that are applicable to various programs within the College of Forestry, Wildlife and Range Sciences at the University of Idaho include BIOL 205, BIOL 310, BIOL 401, BIOL 427, BIOL 433, BOT 305, BOT 401, BOT 424, CHEM 431, ECON 201, ECON 333, GEOS 101, GEOS 305, GEOS 451, MKTG 301, PHYS 111-112, ZOOL 301, ZOOL 341, ZOOL 409, ZOOL 421, ZOOL 434. In many cases, it is possible to attend Boise State for three years and complete the program of study at the University of Idaho in two additional years. Consult the Department of Biological Sciences or the University of Idaho for information as to which courses will apply to the field you wish to enter. |                |

## Course Offerings

### BIOL—Biology

#### Lower Division

**BIOL 100 CONCEPTS OF BIOLOGY (3-2-4)(F, S, SU)(FN).** An introduction to the fundamental biological principles of cell and molecular biology, genetics, ecology, and evolution. Introduction to organismal diversity, physiology, and morphology.

**BIOL 101 BIOLOGY FOR PRE-K: 8 TEACHERS (3-2-4)(S).** Fundamental biological principles of cell and molecular biology, genetics, ecology, and evolution. Organismal diversity, physiology, and morphology. Guidance for teachers of Pre-K – 8 students in incorporation of material into the classroom. Restriction: Early Childhood Education, Elementary Education, Elementary Education Bilingual/ESL, and Special Education majors only.

**BIOL 107 INTRODUCTION TO HUMAN BIOLOGY (3-2-4)(F/S/SU)(FN).** An introduction to human structure and function and the interrelationships of various human systems, along with homeostasis, disease, health and their relationships to human anatomy and physiology. This is a non-major course that does not satisfy biology or allied health program requirements.

**BIOL 109 (BOT 109) PLANTS AND SOCIETY (3-2-4)(F).** Introduction to plants and human cultures by investigating plant products as used globally. Foods, fibers, medicinal plants, stimulants, hallucinogens, ornamentals, industrial plant products. Hands-on experience with plant products to investigate uses of plants and biological properties that make them useful. May be taken for BIOL or BOT credit, but not both.

**BIOL 115 CONCEPTS OF BIOLOGY LABORATORY (0-2-1)(F/S).** For transfer students who need a laboratory experience to gain Area III Core credit for a lecture-only biology course taken elsewhere. PREREQ: PERM/INST.

**BIOL 191 BIOLOGY I: INTRODUCTION TO CELL AND MOLECULAR BIOLOGY (3-3-4)(F, S, SU)(FN).** Designed for biology and health science majors. The basic characteristics of living systems including the chemical and physical structure of cells, genetics, and development. Recommended: Solid preparation in high school biology and chemistry. PREREQ: MATH 108 or satisfactory placement score.

**BIOL 192 BIOLOGY II: INTRODUCTION TO THE DIVERSITY OF LIFE (3-3-4)(F, S).** Organismal biology in an evolutionary context, including biodiversity, structure and function, reproduction, physiology, and morphology of viruses, prokaryotes, protists, fungi, plants, and animals. PREREQ: BIOL 191.

**BIOL 198 PERSPECTIVES IN THE BIOLOGICAL SCIENCES (1-0-1)(F).** Designed to give new biology majors an introduction to the careers of biology, the concepts of biological research, the research of faculty, and the tools necessary to be a successful biology student. (Pass/Fail.)

**BIOL 205 INTRODUCTORY MICROBIOLOGY (3-2-4)(F, S, SU).** A survey of microbial diversity, structure, function, and metabolism; principles of microbial control; host-parasite relationships; immunology; and medically important microorganisms. No longer serves as a prerequisite for upper-division biology courses. PREREQ: CHEM 101, 101L or CHEM 111, 111L, and BIOL 227-228 or BIOL 191-192.

**BIOL 227 HUMAN ANATOMY AND PHYSIOLOGY I (3-3-4)(F, S, SU)(FN).** The first in a two-semester sequence for students whose career objectives require a thorough study of human anatomy and physiology. This course covers basic chemistry, cell biology, and histology, as well as the integumentary, skeletal, muscular, nervous, sensory, and endocrine systems. This course emphasizes the ability to apply knowledge and methods of scientific inquiry to think critically about and solve problems about the structure and function of the human body. Prior or concurrent enrollment in HLTH 101 and CHEM 101 is recommended.

**BIOL 228 HUMAN ANATOMY AND PHYSIOLOGY II (3-3-4)(F, S, SU).** The second in a two semester sequence for students whose career objectives require a thorough study of human anatomy and physiology. This course covers the cardiovascular, lymphatic, immune, respiratory, digestive, urinary, and

reproductive systems as well as metabolism. Prior or concurrent enrollment in HLTH 101 and CHEM 101 is recommended. PREREQ: BIOL 227.

**BIOL 281 RESEARCH IN THE BIOLOGICAL SCIENCES (1-0-1)(F, S).** Seminars by biologists on a wide range of subjects. Students will attend seminars, write summaries, and search for relevant literature. (Pass/Fail.) May be repeated once for credit.

#### Upper Division

**BIOL 303 GENERAL MICROBIOLOGY (3-3-4)(F).** Metabolism, ecological roles, and disease patterns of bacterial, archaeal, viral, and eukaryotic microorganisms. Structure and function, growth and reproduction, physiology, ecology, genetics, diversity, environmental factors, control of microorganisms, antimicrobial agents. PREREQ: BIOL 191-192, CHEM 112, 112L. PRE/COREQ: CHEM 301 or CHEM 307-308.

**BIOL 304 BIOLOGY III: FOUNDATIONS OF ECOLOGY AND EVOLUTION (3-3-4)(F, S, SU).** An introduction to current theories and practices in ecology and evolution, with a focus on the fundamental ecological and evolutionary processes that influence the diversification, distribution and abundance of organisms, the interactions among organisms, and the role of organisms in the flux of energy and cycling of matter. PREREQ: BIOL 191-192 and MATH 254.

**BIOL 306 COMMUNICATION IN THE BIOLOGICAL SCIENCES (3-0-3)(F/S).** Development of written and oral communication skills necessary for future careers in the biological sciences. Skills include summarizing and evaluating scientific research, and communicating scientific information to targeted audiences. PREREQ: ENGL 102 and BIOL 192.

**BIOL 310 GENETICS (3-0-3)(F, S, SU).** A study of the principles of genetics as they relate to living organisms. PREREQ: BIOL 191-192 or BIOL 191 and BIOL 320.

**BIOL 320 CELL BIOLOGY (3-0-3)(F, S, SU).** Structure and function of prokaryotic and eukaryotic cells. PREREQ: BIOL 191-192 and CHEM 112; or BIOL 191, CHEM 301 or CHEM 307 or PHYS 307; or BIOL 227-228 and CHEM 301 or CHEM 307.

**BIOL 321 CELL BIOLOGY LABORATORY (0-8-3)(S)(Even years).** Modern techniques to investigate cellular structure and function. PREREQ: BIOL 310 and BIOL 320, or PERM/INST.

**BIOL 323 ECOLOGY (3-3-4)(F, S).** A survey of how physical and biological factors determine the abundance and distribution of plants and animals. Concepts at the physiological, population, community, and ecosystems level will be discussed. Field and laboratory exercises will investigate questions concerning habitat, populations, and communities. Weekend field trips may be taken. PREREQ: ENGL 102, BIOL 191-192 and MATH 254.

**BIOL 340 MOLECULAR BIOLOGY LECTURE (3-0-3)(F).** A survey of the discovery and application of molecular biology as a core component in areas of research such as human genetics, medical biology, cellular biology and biotechnology. Draws upon examples of current research, including case studies and articles from the primary literature. PREREQ: BIOL 310.

**BIOL 344 MOLECULAR BIOLOGY LABORATORY (0-6-2)(S)(Odd years).** Modern molecular biology techniques to study DNA, RNA, and protein biology. PREREQ: BIOL 310 and BIOL 320, or PERM/INST.

**BIOL 400 ORGANIC EVOLUTION (3-0-3)(S).** Philosophical basis of evolutionary theory. Detailed examination of genetic variation, mechanisms of evolutionary change, adaptation, speciation, and phylogeny. PREREQ: BIOL 304 or BIOL 323, and BIOL 310 or PERM/INST.

**BIOL 406 SCIENCE AND SOCIETY (3-0-3)(S).** Showcases scientific advances made by local biologists from academia, government agencies, and private organizations who conduct research that intersects with societal issues and needs. Offers social opportunities to develop networks with these researchers and gain career advice in a variety of fields and institutions. Upon completing this course, students will understand how biological concepts, theory, and practice link to policy and how to communicate science to the

public through outreach activities. PREREQ: BIOL 304 or BIOL 323 or PERM/INST.

**BIOL 409 MOLECULAR ECOLOGY (3-0-3)(F)(Odd years).** Theory and methodologies. Use of molecular genetic markers to study ecological phenomena (e.g., mating systems, parentage and kinship, population structure, gene flow, dispersal, natural selection). Emphasis on a hypothesis-testing approach. Appropriateness of particular molecular techniques to specific research questions. PREREQ: BIOL 304 or BIOL 323 and BIOL 310.

**BIOL 410 PATHOGENIC BACTERIOLOGY (2-6-4)(S)(Odd years).** Medically important bacteria, rickettsia, and chlamydia are surveyed with emphasis on their pathogenicity, host-parasite relationships, and the clinical and diagnostic aspects of the diseases they produce in humans and animals. PREREQ: BIOL 303 and BIOL 320

**BIOL 412 GENERAL PARASITOLOGY (2-3-3)(Intermittently).** Study of animal parasites with emphasis on those of man and his domestic animals. Lectures cover general biology, life history, structure, function, distribution, and significance of parasites. Laboratory provides experience in identification and detection. PREREQ: BIOL 320 or PERM/INST.

**BIOL 413 SYMBIOSIS (3-0-3)(S)(Odd years).** Explores parasitic, commensalistic, and mutualistic relationships among different organisms. The diversity, evolution, and ecology of symbioses will be analyzed through discussion of primary research articles. Students will lead discussion sessions and prepare a mini-review essay. PREREQ: Junior Standing.

**BIOL 415 MICROBIAL PHYSIOLOGY (3-3-4)(S)(FF).** Microbial physiology is the study of structure and function in microbial cells, biosynthesis of macromolecule precursors and their assembly into macromolecules, growth dynamics, integration of metabolic pathways at the level of gene expression and enzymatic activity, and responses to environmental changes. Experimental methodologies will be focused on various applications of microbial physiology. PREREQ: BIOL 303, and CHEM 301 or CHEM 307-308, or PERM/INST.

**BIOL 416 MICROBIAL ECOLOGY (3-0-3)(S)(Odd years).** Focuses on the relationships among and biogeochemical role of microorganisms in natural communities. Course topics are structured to demonstrate the linkages between microbial ecology, diversity, and evolution; ecological interactions and ecosystem processes catalyzed by microorganisms; and understanding the role of microbial metabolism in controlling elemental cycling on local to global scales. PREREQ: BIOL 205 or BIOL 303, BIOL 304 or BIOL 323, or PERM/INST.

**BIOL 420 IMMUNOLOGY (3-0-3)(S).** Principles of host defense mechanisms, cells and tissues of the immune system, lymphocyte development, antigen receptors and antibodies, antigen processing and presentation, biology of cytokines, pathogenesis of immune disorders, and related topics. PREREQ: BIOL 320.

**BIOL 422 CONSERVATION BIOLOGY (3-0-3)(S)(Odd years).** An introduction to the field of conservation biology, the applied science concerned with understanding the effects of human activities on natural biological systems and with developing practical approaches to prevent the loss of biodiversity. Topics covered will include conservation genetics, demographic analysis, habitat degradation, over exploitation, and restoration ecology. Discussion of the social, political, and economic aspects of conservation biology. PREREQ: BIOL 304 or BIOL 323.

**BIOL 424 SENSORY ECOLOGY (3-0-3)(F)(Odd years).** Sensory ecology aims to understand how signals are produced, how they travel through the environment, how they are detected, how the receiver responds to them and ultimately how signals have evolved and shaped ecological processes such as trophic interactions and species' distributions. Labs will focus on sensory techniques and experimental design. PREREQ: BIOL 304 or BIOL 323, and BIOL 425, or PERM/INST.

**BIOL 425 BASIC AND APPLIED DATA ANALYSIS IN BIOLOGY (4-0-4)(F)(Odd years).** Univariate and multivariate statistics using computer

## BIOLOGICAL SCIENCES

software (JMP, SAS Institute, Inc. ) with applications to biology, natural resources, environmental science, health care, education, industry, and other professional disciplines. PREREQ: BIOL 304 or BIOL 323 or PERM/INST.

**BIOL 426 INSECT ECOLOGY (3-0-3)(S)(Even years).** Life history evolution, insect-plant interactions, predation and parasitism, reproduction, insect societies, chemical ecology, biodiversity and pest management. PREREQ: BIOL 304 or BIOL 323 or PERM/INST.

**BIOL 427 STREAM ECOLOGY (3-3-4)(F)(Odd years).** The biology and ecology of flowing waters is emphasized; their biota, management, and ecology at both the community and ecosystem level will be discussed. PREREQ: BIOL 304 or BIOL 323 or PERM/INST.

**BIOL 428 FISH BIOLOGY AND MANAGEMENT (3-3-4)(F)(Even years).** The biology, ecology and management of freshwater fish are examined. Field sampling, identification and demographic techniques are used to develop an understanding of fishery management principles for economically important species. PREREQ: BIOL 304 and upper-division standing.

**BIOL 431 PHARMACOLOGY (3-0-3)(F).** Basic pharmacological principles including mechanisms of drug action in relation both to drug-receptor interactions and to the operation of physiological and biochemical systems. Pharmacokinetics, metabolism, receptor theory and an examination of major classes of therapeutic agents used in humans. PREREQ: BIOL 227-228 or ZOOL 401, and BIOL 320. PRE/COREQ BIOL 310.

**BIOL 433 BEHAVIORAL ECOLOGY (3-0-3)(F)(Odd years).** Focuses on the evolutionary significance of animal behavior in relation to the ecology of the organisms. Using theoretical background and recent empirical evidence, mating systems, foraging, parental care, selfishness and altruism, competition, territoriality, and other behavioral patterns will be assessed in relation to the survival and reproduction of animals. PREREQ: BIOL 304 or BIOL 323 or PERM/INST.

**BIOL 434 PRINCIPLES OF FISHERIES AND WILDLIFE MANAGEMENT (3-0-3)(S).** Integrative approach to managing game and non-game populations and habitat. Tools to determine population status, strategies to increase or decrease populations, implementing monitoring programs. Current quantitative approaches within context of the ecosystem-based view of wildlife and habitat management. PREREQ: BIOL 304 or BIOL 323.

**BIOL 435 ECOSYSTEM ECOLOGY (3-0-3)(F)(Even years).** Integrated study of biotic and abiotic components of ecosystems and their interactions. With emphasis on current topics such as global climate change, land-use change and species invasions. PREREQ: BIOL 304 or BIOL 323 or PERM/INST.

**BIOL 440 GENERAL AND MOLECULAR TOXICOLOGY (3-0-3)(F/S).** General and molecular principles of mammalian toxicology including toxicant disposition, mechanisms of toxicity, target organ toxicity, and major classes of toxic agents. PREREQ: BIOL 320 or PERM/INST.

**BIOL 441 MOLECULAR BIOLOGY OF CANCER (3-0-3)(S).** A treatment of the basic biology of cancer and the process of tumor progression. Topics examined will include oncogenes, tumor suppressor genes, and the causes of cancer. PREREQ: BIOL 310, BIOL 320.

**BIOL 442 MOLECULAR NEUROBIOLOGY (3-0-3)(F).** Cells of the nervous system, neurochemical transmission, nerve terminals, membrane structure and function, electrical signaling, neural development, process outgrowth and myelination and glia, and specific neural diseases including Alzheimer's disease, Parkinson's disease, and Lou Gehrig's disease. PREREQ: BIOL 320 or PERM/INST.

**BIOL 444 VACCINOLOGY (3-0-3)(S)(Even years).** Discussion of the history, safety, epidemiology, molecular biology and immunology of vaccines. Development of the next generation of vaccines to combat infectious disease of global importance, such as HIV, malaria and tuberculosis, also will be discussed. PREREQ: BIOL 310 and BIOL 320, or PERM/INST.

**BIOL 446 BIOINFORMATICS (3-0-3)(F).** Practical training in bioinformatics methods: accessing sequence data bases, BLAST tools, analysis of nucleic acid and protein sequences, detection of motifs and domains of

proteins, phylogenetic analysis, gene arrays, and gene mapping. PREREQ: BIOL 310 or PERM/INST.

**BIOL 447 FORENSIC BIOLOGY (3-0-3)(F).** Analysis and interpretation of biological evidence in forensic contexts. Topics include entomology, botany, fingerprints, toxicology, DNA, pathology, anthropology and odontology. PREREQ: BIOL 310 or PERM/INST.

**BIOL 449 GENOMICS (3-0-3)(F/S).** A fusion of biology, computer science, and mathematics to answer biological questions. Topics include analyzing eukaryotic, bacterial, and viral genes and genomes; locating genes in genomes and identifying their biological functions; predicting regulatory sites; assessing gene and genome evolution; and analyzing gene expression data. PREREQ: BIOL 310 and MATH 254, or PERM/INST.

**BIOL 451 DEVELOPMENTAL BIOLOGY (3-0-3)(S)(Odd years).** Germ cell development, comparative patterns of cleavage and gastrulation, neurulation and induction, and development of human organ systems with emphasis on molecular and cellular mechanisms. PREREQ: BIOL 191-192 and BIOL 320.

**BIOL 452 DEVELOPMENTAL BIOLOGY LABORATORY (1-6-2)(F)(Odd years).** Application of molecular and cellular methods to current topics in developmental biology. Analysis of current literature in biology with emphasis on the coordinated regulation of gene expression, cellular differentiation and migration. Laboratory studies include model systems such as chick, zebrafish, sea urchin and mouse, utilizing cell/tissue culture, histology, immunohistochemistry, RT-PCR, protein purification, SDS-PAGE, western blot and others. Previous enrollment in BIOL 344 and ZOOL 351 recommended. PREREQ: BIOL 451.

**BIOL 454 APPLICATIONS OF MASS SPECTROMETRY IN BIOLOGICAL RESEARCH (1-0-1)(S).** The course will include 1) basic aspects of mass spectrometry and most common instruments used in biological research, 2) current approaches in mass spectrometry-based qualitative and quantitative proteomics, 3) basic aspects of mass spectrometry-based metabolomics, and 4) imaging mass spectrometry. PREREQ: CHEM 301.

**BIOL 456 ADVANCED HISTOLOGY LABORATORY (0-3-1)(F).** Students will gain hands-on experience with advanced histology techniques and methodologies. PREREQ: BIOL 310, BIOL 320, and ZOOL 400 or PERM/INST.

**BIOL 461 ADVANCED TOPICS IN AQUATIC BIOLOGY (1-0-1)(F/S).** An exploration of the current primary literature in aquatic biology. Topics vary, and may include community dynamics of algae, fish, zooplankton, and benthic invertebrates; trophic relationships; stream and reservoir management; primary and secondary production; organic matter and nutrient dynamics; and wetland ecology. May be repeated once for credit. PREREQ: BIOL 304 and PERM/INST.

**BIOL 462 ADVANCED TOPICS IN ANIMAL BEHAVIOR (1-0-1)(F/S).** Exploration of current animal behavior and behavioral ecology literature through group discussion and presentations. Topics vary and may include animal mating systems, foraging, group living, behavioral endocrinology, conservation and wildlife management related to behavior, behavioral genetics, dispersal, orientation and migration, neurobiology of behavior, and others. May be repeated once for credit. PREREQ: BIOL 433 or 533 or ZOOL 434 or 534 or PERM/INST.

**BIOL 463 ADVANCED TOPICS IN GENETIC ANALYSIS (2-0-2)(S).** Presentation and discussion of topics such as human chromosome evolution, forensic DNA analysis, artificial evolution, mutation and disease, genetic patents, drug target development. PREREQ: BIOL 310 and PERM/INST.

**BIOL 465 ADVANCED TOPICS IN MOLECULAR BIOLOGY TECHNIQUES (1-0-1)(F).** Discussion of scientific literature with emphasis on modern molecular biology techniques. Students will lead discussions and present articles from relevant primary literature. May be repeated twice for credit. PREREQ: BIOL 310 and PERM/INST.

**BIOL 466 ADVANCED TOPICS IN MOLECULAR, CELLULAR, AND DEVELOPMENTAL BIOLOGY (1-0-1)(S).** Discussion of current research.

Students will lead discussions and present articles, as well as monitor recent relevant primary literature. Previous enrollment in BIOL 465 is recommended. May be repeated twice for credit. PREREQ: BIOL 310, BIOL 320 and PERM/INST.

**BIOL 477 (ME 477)(MSE 477) BIOMATERIALS (3-0-3)(F/S).** Theory of biomaterials science. Medical and biological materials and their applications. Selection, properties, characterization, design and testing of materials used by or in living systems. PREREQ: CHEM 112 or MSE 245.

**BIOL 481 RESEARCH IN THE BIOLOGICAL SCIENCES (1-0-1)(F, S).** Seminars by biologists on a wide range of subjects. Students will attend seminars, write summaries, and search for relevant literature. (Pass/Fail.) May be repeated once for credit.

**BIOL 485 UNDERGRADUATE RESEARCH AND INTERNSHIPS IN THE BIOLOGICAL SCIENCES (1-0-1)(F, S)(FF).** Students work with a faculty mentor or community to develop independent research or internship projects, respectively, to address a relevant question in biological research or perform a biologically relevant project with a community partner. Students work in teams to accomplish the research or project goals and present the outcomes of their research or projects in a public venue. Can be taken with a research experience to fulfill the Finishing Foundations requirement. PRE/COREQ: BIOL 479 or BIOL 496 or BIOL 493, and PERM/INST.

**BIOL 488 SENIOR OUTCOMES ASSESSMENT (0-0-0)(F, S).** Required to graduate. Senior biology and biology, secondary education students will take an outcomes assessment examination lasting approximately 3 hours. (Pass/Fail.) PREREQ: Senior standing.

**BIOL 498 BIOLOGY SEMINAR (1-0-1)(F/S).** A review of pertinent literature on selected topics. May be repeated for credit. PREREQ: Upper-division standing in Biology and PERM/INST.

**BIOL 499 BIOLOGY SEMINAR (1-0-1)(F/S).** A review of pertinent literature on selected topics. Restricted to senior biology majors.

## **BOT—Botany**

### **Lower Division**

**BOT 109 (BIOL 109) PLANTS AND SOCIETY (3-2-4)(F).** Introduction to plants and human cultures by investigating plant products as used globally. Foods, fibers, medicinal plants, stimulants, hallucinogens, ornamentals, industrial plant products. Hands-on experience with plant products to investigate uses of plants and biological properties that make them useful. May be taken for BIOL or BOT credit, but not both.

### **Upper Division**

**BOT 302 PLANT ANATOMY AND MICROTECHNIQUE (3-3-4)(S)(Odd years).** A study of the structure and development of vascular plant tissues, regions, and organs. Emphasis will be placed on the Angiosperms. Laboratory work includes preparation of hand and paraffin sections, staining, and observation of plant tissues using various types of light microscopy. PREREQ: BIOL 191-192.

**BOT 305 SYSTEMATIC BOTANY (2-6-4)(S).** Fundamental problems of taxonomy. Discussion of historical development of classification systems and comparison of recent systems. Instruction on use of keys and manuals. PREREQ: BIOL 191-192 or PERM/INST.

**BOT 330 MYCOLOGY (3-3-4)(F).** A study of the biology of fungi with emphasis on their classification, morphology and development, identification, ecology, and economic significance. Laboratory work will include projects and field trips. PREREQ: BIOL 304 or BIOL 323 or PERM/INST.

**BOT 401 PLANT PHYSIOLOGY (3-3-4)(F)(FF).** A study of plant biophysical and biochemical processes. Includes coverage of cell, tissue, and organ function, photosynthesis, water relations, mineral nutrition, transport mechanisms, growth and development, secondary metabolites, and plant responses to the environment. PREREQ: BIOL 304 or BIOL 323.

**BOT 424 PLANT COMMUNITY ECOLOGY (3-3-4)(F)(Even years).** Properties, structure, method of analysis, classification, and dynamic nature of

plant communities. Strengths and weaknesses of various sampling techniques, the role of disturbance events and succession on community structure, and the role of biological interaction as factors influencing the assembly of communities. Vegetation sampling methods and habitat type classification of local plant communities. Methods of analyzing and reporting data. BOT 305 highly recommended. PREREQ: BIOL 304 or BIOL 323 or PERM/INST.

**BOT 430 MOLECULAR AND CELLULAR BIOLOGY OF PLANTS (3-0-3)(S)(Odd years).** Discussion of plant development, plant responses to abiotic factors, and interactions between plants and other organisms from a molecular and cellular perspective. Examination of molecular approaches used to improve plant traits that facilitate sustainable agriculture and remediation of environmental problems. Students conduct a long term experiment to gain experience in plant transformation. PREREQ: BIOL 310.

**BOT 441 PLANT DEVELOPMENTAL BIOLOGY (3-3-4)(S)(Even years).** A description of plant development from a molecular and cellular perspective. Topics discussed include gene expression and cell signaling pathways, and their roles in the control of embryogenesis, plant growth, flowering, and fruit maturation. Examination of techniques and model systems used in the study of plant development. PREREQ: BIOL 310.

## **ZOOL—Zoology**

### **Upper Division**

**ZOOL 301 COMPARATIVE VERTEBRATE ANATOMY (2-6-4)(F/S).** The evolutionary development of vertebrate anatomy, fishes through mammals with a focus on form and function. Dissection of the shark, salamander, and cat plus demonstrations of other vertebrate types. PREREQ: BIOL 191-192 or PERM/INST.

**ZOOL 305 ENTOMOLOGY (3-3-4)(F).** The general anatomy, physiology and developmental biology of insects, and ecological and evolutionary relationships and interactions of insects with humans. Field trips to collect and identify local species. PREREQ: BIOL 191-192 or PERM/INST.

**ZOOL 307 INVERTEBRATE ZOOLOGY (2-6-4)(S)(Alternate years).** Morphology, taxonomy, and natural history of the marine invertebrate animals and terrestrial arthropods exclusive of the insects. PREREQ: BIOL 191-192 or PERM/INST.

**ZOOL 341 ORNITHOLOGY (3-3-4)(S)(Odd years).** Birds as examples of biological principles: classification, identification, ecology, behavior, life histories, distribution, and adaptations of birds. Two weekend field trips. PREREQ: BIOL 304 or BIOL 323.

**ZOOL 355 VERTEBRATE NATURAL HISTORY (2-6-4)(F).** Classification, identification, evolution, ecological relationships, behavior, and life histories of fish, amphibians, reptiles, birds, and mammals. Two weekend field trips. PREREQ: BIOL 191-192 or PERM/INST.

**ZOOL 400 VERTEBRATE HISTOLOGY (2-6-4)(S)(Even years).** Microscopic anatomy of cells, tissues, and organ systems of vertebrates. Major emphasis will be on mammalian systems. PREREQ: BIOL 320 or ZOOL 301.

**ZOOL 401 HUMAN PHYSIOLOGY (3-0-3)(S)(FF).** Functional aspects of human tissues and organ systems with emphasis on regulatory and homeostatic mechanisms. PREREQ: BIOL 310 and BIOL 320. COREQ for biology majors: ZOOL 411.

**ZOOL 402 HUMAN ENDOCRINOLOGY (3-0-3)(S).** Physiology, molecular biology, and clinical aspects of the human endocrine system, with focus on the role of the hypothalamus, pituitary, thyroid, parathyroid, adrenal, gonads, pancreas, and skeleton. PREREQ: BIOL 320 or PERM/INST.

**ZOOL 403 (KINES 403) HEAD AND NECK ANATOMY (2-2-3)(F, S).** Use of human cadavers to study dissections of head and neck with emphasis on clinical relevance. Integument, osteology, myology, circulatory systems, lymphatics, oral and dental tissues, neuroanatomy, cranial nerves, general innervation, and salivary glands. May be taken for KINES or ZOOL credit but not both. PREREQ: BIOL 191-192 or BIOL 227-228 or PERM/INST.

**ZOOL 409 ANIMAL PHYSIOLOGY AND NUTRITION (3-3-4)(F)(FF).** Physiological principles common to all forms of animal life with a focus on nutrition are discussed. Physiological adaptations required to live in a variety of environments and deal with a diversity of diets are presented. PREREQ: BIOL 304 or BIOL 323.

**ZOOL 411 HUMAN PHYSIOLOGY LABORATORY (0-3-1)(S)(FF).** Laboratory for ZOOL 401 Human Physiology. Methods in the functional aspects of human tissues and organ systems with emphasis on regulatory and homeostatic mechanisms. PRE/COREQ: ZOOL 401.

**ZOOL 421 MAMMALOGY (2-3-3)(S)(Even years).** The biology of mammals: ecology, life histories, reproduction, classification, identification, distribution, and adaptations. One weekend field trip. PREREQ: BIOL 304 or BIOL 323.

**ZOOL 425 AQUATIC ENTOMOLOGY (3-3-4)(F)(Even years).** The taxonomy and ecology of the insects most commonly encountered in freshwater environments. Emphasis on identification and biology of individual taxa, aquatic insect community ecology, environmental pollution assessment, and natural resource management. PREREQ: BIOL 304 or BIOL 323.

**ZOOL 434 ANIMAL BEHAVIOR (3-3-4)(F)(Even years).** Focuses on the concepts and processes of animal behavior, with particular emphasis on proximate perspectives. The history of the study of animal behavior, behavioral genetics, the nervous system and behavior, hormones and behavior, ontogeny of behavior, learning and motivation, and other aspects of behavior such as migration, orientation, and navigation will be presented. PREREQ: BIOL 304 or BIOL 323 or PERM/INST.

## Business Bridge to Career Program

*College of Business and Economics*

Micron Business and Economics Building, Room 1213  
 (208) 426-3859 (phone)  
 cobeadvising@boisestate.edu (email)  
<https://www.boisestate.edu/cobe/business-minor-certificate-programs/> (website)

### Certificate and Program Offered

- Certificate in Business Bridge to Career
- Minor in Business Bridge to Career

### Program Statement

If you are an undergraduate non-business (BBA) major, the Business Bridge to Career Program provides you with an opportunity to complement your current field of study with a business minor or certificate. The program develops business competencies, knowledge, and skills valued by employers and thus enhances your career opportunities.

The Bridge to Career Minor or Certificate is open to all non-business undergraduate students at the university. If you are pursuing a bachelor's of business administration degree from the College of Business and Economics, you will not be allowed to register for or utilize these courses to meet degree requirements.

The certificate is a 12-credit program requiring completion of BUSBTC 301 and BUSBTC 302, and any two of the BUSBTC 310-330 three-course sequence. The minor requires completion of all 18 BUSBTC credits. The courses in the program are delivered exclusively online.

### Program Requirements

| Business Bridge to Career Certificate   |                |
|---|----------------|
| <i>Course Number and Title</i>  | <i>Credits</i> |
| BUSBTC 301* Business Foundations I  | 3              |
| BUSBTC 302 Business Foundations II  | 3              |
| Two (2) of the following courses:<br>BUSBTC 310 Creating Value with People<br>BUSBTC 320 Creating Value for Customers<br>BUSBTC 330 Creating Value through Investment | 6              |
| <b>Total</b>  | <b>12</b>      |
| *Prerequisite required: any FM mathematics course except MATH 257.  |                |

| Business Bridge to Career Minor                                    |                |
|--|----------------|
| <i>Course Number and Title</i>                                     | <i>Credits</i> |
| BUSBTC 301* Business Foundations I                                 | 3              |
| BUSBTC 302 Business Foundations II                                 | 3              |
| BUSBTC 310 Creating Value with People                              | 3              |
| BUSBTC 320 Creating Value for Customers                            | 3              |
| BUSBTC 330 Creating Value through Investment                       | 3              |
| BUSBTC 410 Business Planning Applications                          | 3              |
| <b>Total</b>   | <b>18</b>      |
| *Prerequisite required: any FM mathematics course except MATH 257. |                |



## Course Offerings

### BUSBTC—Business Bridge to Career

#### Upper Division

**BUSBTC 301 BUSINESS FOUNDATIONS I (3-0-3)(F, S, SU).** Utilizes a business plan development model to study the interrelationships among business functional areas and provide an understanding of how businesses create value. Provides skills for successful team management and business communication, including an understanding of the language of business. Introduces the principles of responsible business practices. Considers the economic, legal, and social environments in which business operates. PREREQ: non-BBA degree major, any FM, and sophomore standing..

**BUSBTC 302 BUSINESS FOUNDATIONS II (3-0-3)(F, S, SU).** Examines the tools and concepts required to make value-added financial decisions. Emphasis on interpretation and analysis of financial reports and data. Topics include financial statement analysis, budgeting, cash flow, time value of money, and capital investment decisions. Introduces financial spreadsheet tools. PRE/COREQ: BUSBTC 301.

**BUSBTC 310 CREATING VALUE WITH PEOPLE (3-0-3)(F, S, SU).** Develops the competencies required to lead and manage people in a variety of contexts. Topics include organizational behavior, team building, conflict management, motivation, negotiation, career development strategies, and ethical decision making. PREREQ: BUSBTC 301, BUSBTC 302.

**BUSBTC 320 CREATING VALUE FOR CUSTOMERS (3-0-3)(F, S, SU).** Provides an understanding of how products and services are efficiently developed, sold, and delivered to create value for customers and business. Topics include market analysis, consumer behavior, market segmentation, personal sales, distribution strategies, project management, and supply chain management. PREREQ: BUSBTC 301, BUSBTC 302.

**BUSBTC 330 CREATING VALUE THROUGH INVESTMENT (3-0-3)(F, S, SU).** Emphasis on the use of accounting, financial and economic data to measure and manage value creation. Examines valuation methods for financial instruments, measuring the cost of financing, and sources of funds for business. The methods for evaluating and accounting for the profitability of potential business investments, including applied spreadsheet modeling. PREREQ: BUSBTC 301, BUSBTC 302.

**BUSBTC 410 BUSINESS PLANNING APPLICATIONS (3-0-3)(F, S, SU).** Uses the business plan development model introduced in BUSBTC 301 to integrate the concepts and practices developed in earlier courses. Emphasis on problem solving and value creation in a sector or service of interest to student teams. Includes the further development of professional skills such as time management, career management, interpersonal relationships, and leadership. Includes team-based experiential learning. PREREQ: BUSBTC 310, BUSBTC 320, BUSBTC 330.

## Department of Chemistry and Biochemistry

*College of Arts and Sciences*

Science Building, Room 153/154  
(208) 426-3000 (phone)  
(208) 426-1311 or (208) 426-3027 (fax)  
chemistry@boisestate.edu (email)  
<https://www.boisestate.edu/chemistry/> (website)

*Chair and Professor:* Owen McDougal. *Professors:* LeMaster, Russell, Shadle, D Warner. *Associate Professors:* Brown, Charlier, Cornell, Lee, Nagarajan. *Assistant Professors:* Ausman, Callahan, Colson, King, L Warner. *Clinical Assistant Professors:* Blasdel, Gilton, Meredith, Saunders. *Associate Research Professor:* Dumais. *Lecturer:* Sligar.

### Degrees Offered

- Bachelor of Science in Chemistry
  - American Chemical Society (ACS) Certified Biochemistry Emphasis
  - American Chemical Society (ACS) Certified Professional Emphasis
  - Biochemistry Emphasis
  - Forensics Emphasis
  - Secondary Education Emphasis
- Minor in Chemistry Teaching Endorsement
- Minor in Chemistry

### Department Statement

The goal of the Department of Chemistry and Biochemistry is to provide degree candidates with a thorough understanding of the fundamentals of chemistry, interwoven with training in up-to-date procedures and state-of-the-art instrumentation.

By choosing from a variety of courses and emphases, a Boise State graduate with a degree in chemistry will be prepared to enter graduate school, enter medical or other professional school, teach in high school, or work as a chemist in a variety of careers.

The chemistry curriculum of Boise State offers students an education based on the employment requirements of industry, educational institutions, and government agencies, while emphasizing the individual needs and capabilities of each student. The faculty of the Department of Chemistry and Biochemistry recognizes that students are most successful if their training has prepared them for a specific career field, but also recognizes that a broad background affords students the best opportunity for a future career.

Boise State offers five emphases in the Bachelor of Science degree in Chemistry: Biochemistry, Forensics, Secondary Education and two ACS certified emphases (Professional and Biochemistry). The various emphases offered prepare students for a number of different career directions while all provide an excellent basic background in the entire chemistry field. The ACS certified emphases add the distinction of meeting the rigorous standards of the American Chemical Society. All chemistry degree options require a full sequence of calculus, one year of calculus-based physics, and one year of faculty-directed research.

# CHEMISTRY AND BIOCHEMISTRY

## Degree Requirements

| Chemistry Bachelor of Science   |                |
|---|----------------|
| <i>Course Number and Title</i>  | <i>Credits</i> |
| University Foundations requirements indicated in bold. See page 48 for details and lists of approved courses.   |                |
| <b>UF 100</b> Foundations of Intellectual Life  | 3              |
| <b>UF 200</b> Foundations of Ethics and Diversity   | 3              |
| <b>FW ENGL 101</b> Writing and Rhetoric I   | 3              |
| <b>FW ENGL 102</b> Writing and Rhetoric II  | 3              |
| <b>FC</b> Foundations of Oral Communication   | 3              |
| <b>FM MATH 170</b> Calculus I   | 4              |
| <b>FN CHEM 111, 111L</b> General Chemistry I with Lab   | 4              |
| <b>FN PHYS 211, 211L</b> Physics I with Calculus & Lab  | 5              |
| <b>FA</b> Foundations of Arts course  | 3              |
| <b>FH</b> Foundations of Humanities course  | 3-4            |
| <b>FS CJ 103</b> Intro to Law & Justice (Forensics Emphasis) or <b>FS ED-CIFS 201</b> Education, Schooling, and Society (Secondary Education Emphasis) or <b>FS</b> Foundations of Social Sciences course | 3              |
| <b>FS</b> Foundations of Social Sciences course in a second field   | 3              |
| CHEM 112, 112L General Chemistry II & Lab   | 4              |
| CHEM 211, 212 Analytical Chemistry I & Lab  | 5              |
| CHEM 307, 308-309, 310 Organic Chemistry I & II with Labs   | 10             |
| CHEM 321, 322 Physical Chemistry I & II Lecture   | 6              |
| CHEM 323 Advanced Synthesis Laboratory  | 3              |
| CHEM 324 Physical Chemistry Laboratory  | 2              |
| CHEM 495 Directed Research in Chemistry   | 2              |
| <b>FF CHEM 498</b> Seminar  | 2              |
| MATH 175 Calculus II  | 4              |
| MATH 275 Multivariable and Vector Calculus  | 4              |
| PHYS 212, 212L Physics II with Calculus & Lab   | 5              |
| Must choose one (1) of the emphases below   |                |
| <b>ACS Certified Biochemistry Emphasis</b>  |                |
| BIOL 191 Biology I: Intro to Cell and Molecular Biology   | 4              |
| BIOL 310 Genetics   | 3              |
| BIOL 320 Cell Biology   | 3              |
| CHEM 401 Advanced Inorganic Chemistry   | 3              |
| CHEM 411 Analytical Chemistry II  | 3              |
| CHEM 431, 432, 433 Biochemistry I, II and Lab   | 8              |
| Electives to total 120 credits  | 8-9            |
| Total   | 120            |
| <b>ACS Certified Professional Emphasis</b>  |                |
| CHEM 401 Advanced Inorganic Chemistry   | 3              |
| CHEM 411 Analytical Chemistry II  | 3              |
| CHEM 412 Analytical Chemistry Laboratory II   | 2              |
| CHEM 431 Biochemistry I   | 3              |
| One (1) or more additional courses chosen from the following for a minimum of 3 credits:<br>CHEM 422 Advanced Topics in Chemistry<br>CHEM 440 Spectrometric Identification                                | 3-6            |
| Upper-division electives to total 40 credits  | 0-1            |

|   |         |
|---|---------|
| Electives to total 120 credits  | 15-18   |
| Total   | 120     |
| <b>Biochemistry Emphasis</b>  |         |
| BIOL 191 Biology I: Intro to Cell and Molecular Biology   | 4       |
| BIOL 310 Genetics   | 3       |
| BIOL 320 Cell Biology   | 3       |
| CHEM 431, 432, 433 Biochemistry I, II and Lab   | 8       |
| One (1) or more additional courses chosen from the following for a minimum of 3 credits:<br>CHEM 422 Advanced Topics in Chemistry<br>CHEM 440 Spectrometric Identification        | 3-6     |
| Electives to total 120 credits  | 8-12    |
| Total   | 120     |
| <b>Forensics Emphasis</b>   |         |
| BIOL 191 Biology I: Intro to Cell and Molecular Biology   | 4       |
| BIOL 310 Genetics   | 3       |
| BIOL 320 Cell Biology   | 3       |
| BIOL 447 Forensic Biology   | 3       |
| CHEM 431, 432, 433 Biochemistry I, II and Lab   | 8       |
| CHEM 440 Spectrometric Identification   | 3       |
| CJ 375 Criminal Procedure   | 3       |
| Electives to total 120 credits  | 5-6     |
| Total   | 120     |
| <b>Secondary Education Emphasis</b>   |         |
| CHEM 401 Advanced Inorganic Chemistry   | 3       |
| CHEM 411 Analytical Chemistry II  | 3       |
| CHEM 412 Analytical Chemistry Laboratory II   | 2       |
| CHEM 431 Biochemistry I   | 3       |
| STEM-ED 101 Step 1: Inquiry Approaches to Teaching  | 1       |
| STEM-ED 102 Step 2: Inquiry-based Lesson Design   | 1       |
| STEM-ED 210 Knowing & Learning in Math & Science  | 3       |
| STEM-ED 220 Philosophical Perspectives on Science and Mathematics   | 3       |
| STEM-ED 310 Classroom Interactions  | 3       |
| STEM-ED 350 Research Methods  | 3       |
| STEM-ED 410 Project-based Instruction   | 3       |
| STEM-ED 480 Apprentice Teaching   | 6       |
| Total   | 121-122 |
| Recommended electives are foreign language, upper-division mathematics, upper-division chemistry, upper-division physics, advanced topics in chemistry, and life science courses. |         |

| Chemistry Minor<br>or<br>Chemistry Teaching Endorsement Minor   |                |
|---|----------------|
| <i>Course Number and Title</i>  | <i>Credits</i> |
| CHEM 111, 111L-112, 112L General Chemistry I & II & Labs  | 8              |
| CHEM 211, 212 Analytical Chemistry I & Lab  | 5              |
| CHEM 307, 308-309, 310 Organic Chemistry I & II with Labs   | 10             |
| Total   | 23             |
| This Teaching Endorsement Minor does not certify you to teach. For more information on becoming a teacher please contact the Office of Teacher Education. |                |

## Course Offerings

### CHEM—Chemistry

#### **CHEM 100 CONCEPTS OF CHEMISTRY (3-3-4)(F, S, SU)(FN).**

Acquaint students with chemistry and its relationship to other fields of study and modern life. Students who have received credit for CHEM 102 or CHEM 112 may not receive credit for CHEM 100.

#### **CHEM 101 INTRODUCTION TO CHEMISTRY (3-0-3)(F, S, SU)(FN).**

First semester of a sequence course designed primarily for health science majors or students who need an introductory chemistry course prior to taking CHEM 111. Basic concepts of inorganic and physical chemistry are covered. PREREQ: MATH 108 or satisfactory placement score. COREQ: CHEM 101L.

#### **CHEM 101L INTRODUCTION TO CHEMISTRY LABORATORY**

**(0-3-1)(F, S, SU)(FN).** Lab to accompany CHEM 101. COREQ: CHEM 101.

#### **CHEM 102 ESSENTIALS OF ORGANIC AND BIOCHEMISTRY (3-0-3)**

**(S)(FN).** Continuation of CHEM 101 to include basic concepts of organic and biochemistry. PREREQ: CHEM 101. COREQ: CHEM 102L.

#### **CHEM 102L ESSENTIALS OF ORGANIC AND BIOCHEMISTRY**

**LABORATORY (0-3-1)(S)(FN).** Lab to accompany CHEM 102. COREQ: CHEM 102.

#### **CHEM 111 GENERAL CHEMISTRY I (3-0-3)(F, S, SU)(FN).**

The first semester of a one-year sequence course. A thorough study of the fundamentals of chemistry, including atomic and molecular structure, stoichiometry, chemical reactions in solutions, gases, thermochemistry, basic quantum theory, chemical periodicity, and elementary chemical bonding. CHEM 111 assumes that students without one year of high school chemistry have completed a semester preparative course (see CHEM 100). PREREQ: MATH 143 or successful completion of the CHEM 111 Math exam. COREQ: CHEM 111L.

#### **CHEM 111L GENERAL CHEMISTRY I LABORATORY (0-3-1)(F, S, SU)**

**(FN).** Lab to accompany CHEM 111. COREQ: CHEM 111.

#### **CHEM 112 GENERAL CHEMISTRY II (3-0-3)(F, S, SU).**

A continuation of CHEM 111 to include intermolecular forces, thermodynamics, chemical kinetics, chemical equilibrium in solution, acids and bases, oxidation-reduction, electrochemistry, and complex ions. PREREQ: MATH 143 or successful completion of the CHEM 111 Math exam, CHEM 111 and CHEM 111L. COREQ: CHEM 112L.

#### **CHEM 112L GENERAL CHEMISTRY II LABORATORY (0-3-1)(F, S,**

**SU).** Lab to accompany CHEM 112. COREQ: CHEM 112.

#### **CHEM 211 ANALYTICAL CHEMISTRY I (3-0-3)(F, S).**

Study of the equilibrium relationships and methods used in gravimetric, volumetric, and some instrumental analysis. PREREQ: CHEM 112, CHEM 112L, MATH 143 and MATH 144 or equivalent.

#### **CHEM 212 ANALYTICAL CHEMISTRY I LABORATORY (0-5-2)(F, S).**

Practical application of analytical techniques through analysis of unknown samples using gravimetric, volumetric, and instrumental methods. PRE/COREQ: CHEM 211.

#### **CHEM 286 DIRECTED READING IN CHEMISTRY (1-0-1)(F, S).**

An individual study of a topic in chemistry arranged by the student in conjunction with a supervising member of the chemistry faculty. May be repeated for credit.

#### **CHEM 288 HISTORY OF CHEMISTRY: PREHISTORIC TO 1600**

**(3-0-3)(On Demand).** Origins of chemistry from alchemy to modern chemistry in the Arab, Chinese, Hindu, and western world. Includes early writers and Iatrochemistry.

#### **CHEM 289 HISTORY OF CHEMISTRY: 1600 TO PRESENT (3-0-3)(On**

**Demand).** Chemistry from 1600 to the present. Includes the major figures and the major chemical theories of the period.

#### **CHEM 296 RESEARCH IN CHEMISTRY (Variable Credit)(F, S).**

An individual laboratory research project in chemistry arranged by the student in

conjunction with a supervising member of the chemistry faculty. May be repeated for credit.

### Upper Division

#### **CHEM 301 SURVEY OF ORGANIC CHEMISTRY (3-0-3)(S).**

For students expecting to take only one semester of organic chemistry. An overview of organic chemistry covering the fundamental principles of nomenclature, reactions, synthesis, mechanisms, stereochemistry, spectroscopy, lipids, proteins, and carbohydrates. PREREQ: CHEM 111-112, CHEM 112L. COREQ: CHEM 308.

#### **CHEM 307 ORGANIC CHEMISTRY I (3-0-3)(F/S).**

For students expecting to take two semesters of organic chemistry. More in-depth treatment of structure and bonding in organic molecules, mechanisms of organic reactions, chemical transformations of some of the functional groups of organic chemistry, synthesis, and determination of chemical structures. PREREQ: CHEM 111-112, CHEM 112L. COREQ: CHEM 308.

#### **CHEM 308 ORGANIC CHEMISTRY I LABORATORY (1-3-2)(F/S).**

Lab to accompany CHEM 301 and CHEM 307. Introduction to organic laboratory techniques, spectroscopic methods and organic syntheses. One three-hour laboratory and one hour of recitation per week. COREQ: CHEM 301 or CHEM 307.

#### **CHEM 309 ORGANIC CHEMISTRY II (3-0-3)(F/S).**

A continuation of CHEM 307, covering additional functional groups and advanced topics in organic chemistry. PREREQ: CHEM 307. COREQ: CHEM 310.

#### **CHEM 310 ORGANIC CHEMISTRY II LABORATORY (1-3-2)(F/S).**

Lab to accompany CHEM 309. More advanced organic laboratory techniques, syntheses, organic qualitative analysis, spectroscopic methods, and an introduction to molecular modeling. Three hours of laboratory and one hour of recitation per week. PREREQ: CHEM 308. COREQ: CHEM 309.

#### **CHEM 321 PHYSICAL CHEMISTRY I LECTURE (3-0-3)(F).**

The first semester of a one-year sequence course. Comprehensive study of the theoretical aspects of physical-chemical phenomena. Emphasis is placed on classical and statistical thermodynamics, kinetics, symmetry, spectroscopy, and quantum chemistry. PREREQ: CHEM 309, MATH 275 or equivalent, PHYS 212 and 212L or PERM/INST.

#### **CHEM 322 PHYSICAL CHEMISTRY II LECTURE (3-0-3)(S).**

A continuation of CHEM 321, a comprehensive study of the theoretical aspects of physical-chemical phenomena. Emphasis is placed on classical and statistical thermodynamics, kinetics, symmetry, spectroscopy, and quantum chemistry. PREREQ: CHEM 321.

#### **CHEM 323 ADVANCED SYNTHESIS LABORATORY (1-5-3)(F, S).**

Advanced techniques in the preparation, isolation, characterization of organic, organometallic, inorganic, and polymer compounds. Introduction to technical report writing and the use of the chemical literature. PREREQ: ENGL 102, CHEM 211/212 and CHEM 310. PRE/COREQ: CHEM 321.

#### **CHEM 324 PHYSICAL CHEMISTRY LABORATORY (0-6-2)(F, S).**

Methods of physicochemical measurement, introduction to computerized data analysis, technical report writing, and the use of the chemical literature. Experiments/activities include: introduction to computer interfacing for equipment control and data collection, integrating computational chemistry techniques with spectroscopy experiments, spectroscopy, kinetics, and thermodynamics. PREREQ: CHEM 211/212 and CHEM 310. PRE/COREQ: CHEM 322.

#### **CHEM 341, 342 GLASSBLOWING (0-3-1)(On Demand).**

CHEM 341 acquaints students with the basics of scientific glassblowing. CHEM 342 gives students practice in techniques and in construction of more complex apparatus. PREREQ: junior standing.

#### **CHEM 350 FUNDAMENTALS OF BIOCHEMISTRY (3-0-3)(F, S).**

A course designed for non-majors who need one semester of biochemistry to satisfy program or professional school requirements. An overview of the biochemical principles governing the properties and activities of biologically relevant molecules: nucleic acids, carbohydrates, lipids, and proteins. The

## CHEMISTRY AND BIOCHEMISTRY

emphasis will be on biomolecule structure and function as they relate to human metabolism and disease. PREREQ: CHEM 301 or CHEM 307.

**CHEM 386 DIRECTED READING IN CHEMISTRY (1-0-1)(F, S).** An individual study of a topic in chemistry arranged by the student in conjunction with a supervising member of the chemistry faculty. May be repeated for credit.

**CHEM 396 RESEARCH IN CHEMISTRY (Variable Credit)(F, S).** An individual laboratory research project in chemistry arranged by the student in conjunction with a supervising member of the chemistry faculty. May be repeated for credit.

**CHEM 401 ADVANCED INORGANIC CHEMISTRY (3-0-3)(F).** Atomic structure, molecular structure using valence bond and molecular orbital theories, solid state chemistry, elementary group theory, transition metal coordination chemistry and spectroscopy, organometallic chemistry, acid/base theory, and redox chemistry. PREREQ: CHEM 322 or PERM/INST.

**CHEM 411 ANALYTICAL CHEMISTRY II (3-0-3)(F).** Advanced analytical methodology with a focus on modern chemical instrumentation, signal processing, and error analysis. PREREQ: CHEM 212 and CHEM 322.

**CHEM 412 ANALYTICAL CHEMISTRY LABORATORY II (0-6-2)(S).** Advanced analytical methodology with a focus on modern chemical instrumentation, troubleshooting, experimental parameter optimization, signal processing, and error analysis. PREREQ: CHEM 324. PRE/COREQ: CHEM 411.

**CHEM 422 ADVANCED TOPICS IN CHEMISTRY (1-3 credits)(On Demand).** Selected advanced topics from chemistry such as mass spectrometry, nuclear magnetic resonance spectroscopy, radiochemistry, environmental chemistry, and polymer chemistry. May be repeated for credit. PREREQ: CHEM 322 or PERM/INST.

**CHEM 431 BIOCHEMISTRY I (3-0-3)(F).** A study of the chemistry of biologically important compounds and an introduction to metabolism. PREREQ: CHEM 309 and MATH 170 or PERM/INST.

**CHEM 432 BIOCHEMISTRY LABORATORY (0-6-2)(F, S).** Identification, isolation, and reactions of biologically important compounds. PREREQ: CHEM 431.

**CHEM 433 BIOCHEMISTRY II (3-0-3)(S).** The function of biological compounds, including intermediary metabolism and synthesis of proteins. Cellular control mechanisms of these processes are integrated into the material. PREREQ: CHEM 431.

**CHEM 440 SPECTROMETRIC IDENTIFICATION (3-0-3)(S).** Identification of compounds using modern spectrometric techniques. PREREQ: CHEM 309.

**CHEM 441 SPECTROMETRIC IDENTIFICATION LABORATORY (0-3-1)(S).** Laboratory course to accompany CHEM 440. PREREQ: CHEM 310. COREQ: CHEM 440.

**CHEM 443 ADVANCED CHEMICAL PREPARATION LABORATORY (0-4-1)(S).** Advanced techniques in the preparation, isolation, and characterization of chemical compounds, with emphasis on inorganic compounds. PREREQ: CHEM 401 and CHEM 324 or PERM/INST.

**CHEM 495 RESEARCH IN CHEMISTRY (Variable credit)(F, S, SU).** An individual laboratory research project in chemistry selected by the student in conjunction with a supervising member of the chemistry faculty. Library research and written reports required. May be repeated for credit. PREREQ: CHEM 309.

**CHEM 498 SEMINAR (2-0-2)(F, S)(FF).** Group discussions of individual reports on selected topics in the various fields of chemistry. PREREQ: Chemistry major and senior standing.

## Department of Civil Engineering

*College of Engineering*

Environmental Research Building, Room 1134  
(208) 426-3743 (phone)  
(208) 426-2351 (fax)  
<https://boisestate.edu/coen-cc/> (website)

*Chair and Professor:* Nick Hudyma. *Professor:* Farid. *Associate Professors:* Chittoori, Hamilton, Khanal, Miller. *Assistant Professors:* Lu, Sadegh.

### Degrees Offered

- Bachelor of Science in Civil Engineering
  - Secondary Education Emphasis

### Department Statement

Civil engineering is critical to our modern way of life. It integrates socioeconomic, political, environmental, and technical considerations in the planning, design, and construction of many structures that define our civilization.

These structures include buildings, canals, tunnels, highways, water and wastewater treatment facilities, landfills, harbors, airports, and others.

Civil engineers are involved in:

- Developing and implementing innovative solutions to characterize and remediate contaminated sites
- The design of engineering treatment and disposal facilities for hazardous and solid wastes
- Preserving and fostering sustainable development of natural resources
- Protecting society from natural hazards such as earthquakes, landslides and hurricanes
- Rebuilding our nation's deteriorating infrastructure.

Students interested in the Civil Engineering program should be aware that all civil engineering majors must complete at least 45 credits, be in good academic standing, and make application to the department chair before being admitted to any upper-division civil engineering classes. Students will be evaluated based upon the departmental Admission to Upper-Division policy.

The Civil Engineering, Secondary Education Emphasis, combines content knowledge, theories of learning and human development, study of curriculum, and methodology to help students develop the knowledge, skills and dispositions essential for success in secondary school teaching. The program involves participation in the IDoTeach STEM-ED curriculum, which includes early and sustained field experiences for students. Candidates who complete the Secondary Education Emphasis program have demonstrated evidence of meeting the Idaho Beginning Teacher and Engineering Standards and are eligible for recommendation for state certification and an engineering endorsement for teaching.

Students wishing to pursue this degree plan must meet the requirements and standards for admission to teacher education, which are described fully under STEM Education IDoTeach STEM Teaching Certification or at <https://www.boisestate.edu/idoteach/>. Students must meet and maintain all knowledge, skill, and disposition requirements to remain in the program.

The BS in Civil Engineering program is accredited by the Engineering Accreditation Commission of ABET, <http://www.abet.org/>.

## Admission to Upper Division

The first two years of the curriculum are considered to be lower-division and the two remaining years, upper-division. Students must apply for upper-division status in Civil Engineering in order to be admitted to selected upper-division civil engineering courses.

To gain upper-division status you must have:

- completed 45 semester credits
- passed the following courses with an average of 2.30 or better
  - CE 280 Civil Engineering Case Studies
  - CHEM 112 General Chemistry II
  - CE/ME 350 Engineering Mechanics of Materials
  - MATH 275 Multivariable and Vector Calculus
  - MATH 333 Differential Equations with Matrix Theory
  - MATH 360 Engineering Statistics or MATH 361 Probability and Statistics I\*
- filed a two to three-paragraph reflective statement of why you wish to be a civil engineer
- included a copy of your Boise State University transcript (either unofficial or official) with the application

\*Note: CE 282 will still be accepted for those students following the 2012-13, 2013-14, 2014-15, 2015-16, 2016-17, or 2017-18 catalogs.

You may apply in the semester you are finishing the above requirements. Your application will be reviewed at the end of that semester.

## Program Educational Objectives

Graduates of the Boise State Civil Engineering Program will be competent engineers that:

1. apply theoretical and technical knowledge to evaluate and solve problems in a wide variety of civil engineering applications;
2. understand and protect public health and safety;
3. have communication skills to effectively convey solutions to colleagues and the general public; and
4. seek to continuously improve knowledge and skills to understand the complex interactions of a variety of contemporary socio-economic issues, and to meet the demands of a changing world.

## Civil Engineering Design

Civil engineering students gain design experience throughout their undergraduate careers at Boise State. As freshmen, students are introduced to the fundamentals of design in the Introduction to Engineering course in which team projects and planning are emphasized. As sophomores, students take Statics, Dynamics, and Mechanics of Materials classes in which students learn to solve open ended-problems and select alternative designs. In the junior year, students take courses in fluid mechanics, environmental, materials, soils, structural and transportation engineering courses. Most of these courses include laboratory experiences and have significant design components in the form of practical problems, alternative approaches to solutions, feasibility considerations and specifications of systems. In their final year, students participate in a capstone senior design course in which they work on a complex, multidisciplinary project. Students interact closely with local engineers from industry or state government to prepare drawings, preliminary reports, feasibility studies, and evaluation of alternatives. Final written and oral presentations are key elements of this course. Students also take a required civil engineering design elective in their senior year, and may elect to take other design courses to fulfill other technical elective requirements.

## Degree Requirements

| Civil Engineering<br>Bachelor of Science  |         |
|---|---------|
| Course Number and Title   | Credits |
| University Foundations requirements indicated in bold. See page 48 for details and lists of approved courses.   |         |
| <b>UF 100</b> Foundations of Intellectual Life  | 3       |
| <b>UF 200</b> Foundations of Ethics and Diversity   | 3       |
| <b>FW ENGL 101</b> Writing and Rhetoric I   | 3       |
| <b>FW ENGL 102</b> Writing and Rhetoric II  | 3       |
| <b>FC</b> Foundations of Oral Communication   | 3       |
| <b>FM MATH 170</b> Calculus I   | 4       |
| <b>FN CHEM 111, 111L</b> General Chemistry I & Lab  | 4       |
| <b>FN PHYS 211, 211L</b> Physics I with Calculus & Lab  | 5       |
| <b>FA</b> Foundations of Arts course  | 3       |
| <b>FH</b> Foundations of Humanities course or<br><b>FH STEM-ED 220</b> Philosophical Perspectives on Science and Mathematics (Secondary Education Emphasis) | 3-4     |
| <b>FS</b> Foundations of Social Sciences course or<br><b>FS ED-CIFS 201</b> Education, Schooling, and Society (Secondary Education Emphasis)                | 3       |
| <b>FS</b> Foundations of Social Sciences course in a second field   | 3       |
| CE 280 Civil Engineering Case Studies   | 2       |
| CE 284 Civil Engineering Computational Methods or<br>CS 117 C++ for Engineers   | 2-3     |
| CE 286 Introduction to AutoCAD for Civil Engineers  | 2       |
| CE 320 Principles of Environmental Engineering  | 3       |
| CE 321 Principles of Environmental Engineering Lab  | 1       |
| CE or ME 330, 331 Fluid Mechanics and Lab   | 4       |
| CE 340 Engineering Properties of Construction Materials   | 3       |
| CE 341 Construction Materials Lab   | 1       |
| CE 350 Mechanics of Materials or<br>ME 350 Engineering Mechanics of Materials   | 3       |
| CE 352 Structures I   | 3       |
| CE 360, 361 Engineering Properties of Soils and Lab   | 4       |
| CE 370 Transportation Engineering Fundamentals  | 3       |
| CE 481 Senior Design Project I  | 1       |
| <b>FF CE 483</b> Senior Design Project II   | 3       |
| CHEM 112, 112L General Chemistry II & lab   | 4       |
| CMGT 120 Introduction to Construction Management  | 3       |
| CMGT 210 Construction Surveying & Layout  | 2       |
| CMGT 211 Construction Surveying and Layout Lab  | 1       |
| ENGL 212 Technical Communication  | 3       |
| ENGR 180 Communication in Design Thinking   | 3       |
| ENGR 205 Technical Communication for Civil Engineers  | 1       |
| ENGR 210 Engineering Mechanics I  | 3       |
| ENGR 220 Engineering Mechanics II   | 3       |
| MATH 175 Calculus II  | 4       |
| MATH 275 Multivariable and Vector Calculus  | 4       |
| MATH 333 Differential Equations with Matrix Theory  | 4       |
| MATH 360 Engineering Statistics or<br>MATH 361 Probability and Statistics I   | 3       |

## CIVIL ENGINEERING

|   |         |
|---|---------|
| Civil Engineering Design elective   | 3       |
| Civil Engineering Technical electives   | 6       |
| Circuits-thermodynamics elective chosen from:<br>ENGR 240 Electrical and Electronic Circuits<br>ME 302 Thermodynamics I   | 3       |
| Science elective  | 3-4     |
| Technical elective or<br>STEM-ED 350 Research Methods (Secondary Education Emphasis)  | 3       |
| In addition, complete the courses listed under the Secondary Education Emphasis below to graduate with a BS in Civil Engineering with an emphasis in Secondary Education. |         |
| Total   | 131-134 |
| <b>Secondary Education Emphasis</b>   |         |
| STEM-ED 101 Step 1: Inquiry Approaches to Teaching  | 1       |
| STEM-ED 102 Step 2: Inquiry-Based Lesson Design   | 1       |
| STEM-ED 210 Knowing & Learning in Math & Science  | 3       |
| STEM-ED 310 Classroom Interactions  | 3       |
| STEM-ED 410 Project-Based Instruction   | 3       |
| STEM-ED 480 Apprentice Teaching   | 6       |
| Total   | 148-151 |
| This emphasis also needs to complete ED-CIFS 201, STEM-ED 220 and STEM-ED 350.  |         |

### Course Offerings

#### CE—Civil Engineering

##### Lower Division

**CE 200 CIVIL ENGINEERING SPECIAL PROJECTS (0-3-1)(F, S).** Activities undertaken by the Civil Engineering student club at Boise State University. Students enrolled in this course will work on special projects such as design and construction of concrete canoes and steel bridges. Special emphasis will be given to teamwork; discussions will also focus on project management activities such as task scheduling and cost estimation. May be repeated for credit.

**CE 280 CIVIL ENGINEERING CASE STUDIES (2-0-2)(F/S).** Review of projects, historical and ongoing, from various aspects of Civil Engineering. PREREQ: ENGR 180.

**CE 284 CIVIL ENGINEERING COMPUTATIONAL METHODS (2-0-2)(F/S).** Introduction to programming and computational methods in civil engineering. PREREQ: ENGR 180.

**CE 286 INTRODUCTION TO AUTOCAD FOR CIVIL ENGINEERS (2-0-2)(F/S).** Introduction to engineering drafting and computer-aided design for civil engineering applications. The course covers mechanics and standards used to create and interpret engineering drawings made by hand and with AutoCAD. PREREQ: ENGR 180.

##### Upper Division

**CE 310 ADVANCED SURVEYING (2-3-3)(S).** A continuation of CE 210 including mapping, state plane coordinate systems, title searches and an introduction to GIS. PREREQ: CMGT 210 and CMGT 211.

**CE 316 (GEOS 316) HYDROLOGY (3-2-4)(F).** Interdisciplinary earth science concerned with movement and occurrence of water. Watershed based hydrologic phenomena including hydrologic water-cycle analysis, precipitation, evapotranspiration, snow/snowmelt, streamflow, floods, routing and surface runoff events. Application of analytical techniques to solve water resource problems. May be taken for GEOS or CE credit, but not both. PREREQ: GEOS 212 and MATH 175, or PERM/INST.

**CE 320 PRINCIPLES OF ENVIRONMENTAL ENGINEERING (3-0-3)(F).** Treatment of domestic and industrial water supplies. Disposal of domestic sewage and industrial wastes. Environmental consideration in water management, water

use, wastewater generation, and water quality. Design of water and wastewater treatment systems. PREREQ: CHEM 112 and upper-division status in civil engineering. COREQ: CE 321.

**CE 321 PRINCIPLES OF ENVIRONMENTAL ENGINEERING LAB (0-3-1)(F/S).** Environmental engineering problems with emphasis on analysis and presentation. Significance of results as compared with theory and practice. PRE/COREQ: CE 320 and ENGR 205.

**CE 330 FLUID MECHANICS (3-0-3)(F/S).** Physical properties of fluids, fluid mechanics, measurements, viscous flow, turbulent flow, momentum, lift, drag, boundary layer effects, pipe flow, and open channel flow. PREREQ: ENGR 210, MATH 275, MATH 333.

**CE 331 FLUID MECHANICS LAB (0-3-1)(F/S).** Fluid mechanics experiments, measurements, data acquisition, and data analysis. Viscosity, fluid statistics, hydraulics, computational fluid dynamics, pipe flow, turbulence, drag, and lift. PREREQ: ENGL 212. COREQ: CE 330.

**CE 340 ENGINEERING PROPERTIES OF CONSTRUCTION MATERIALS (3-0-3)(F/S).** Physical and engineering properties, behavior, design, and utilization of various construction materials. PREREQ: CE 350 or CMGT 310 or ME 350. PRE/COREQ: CE 341.

**CE 341 CONSTRUCTION MATERIALS LAB (0-3-1)(F/S).** Evaluation of materials used in construction. PREREQ: CE 350 or CMGT 310.

**CE 350 MECHANICS OF MATERIALS (3-0-3)(F/S).** Principles of stress, strain, and deformation applied to the analysis of engineering structures including beams, shafts, and columns. PREREQ: ENGR 210 and MATH 175.

**CE 351 CODES AND OFFICIAL DOCUMENTS (3-0-3)(F/S).** Survey of codes and related works influencing the design and construction of projects. Requirements generated by the IBC, ASCE-7, and the Americans with Disabilities Act. Determination of structural loads, resolution of conflicts among governing codes, and interpretation of documents. PREREQ: Junior standing.

**CE 352 STRUCTURES I (3-0-3)(F).** Analysis and design of statically determinate and indeterminate structures, under static or moving loads, using classical methods. Equilibrium, stress-strain relations, and compatibility. PREREQ: CE 350 or CMGT 310 or ME 350, and upper-division status in civil engineering.

**CE 354 STRUCTURES II (3-0-3)(F/S).** Analysis and design of structural systems. Stiffness method including the development of element properties, coordinate transformations, and global analysis theory. Three-dimensional building systems and an introduction to the Finite Element Method. PREREQ: CE 352.

**CE 360 ENGINEERING PROPERTIES OF SOILS (3-0-3)(S).** Descriptive terminology, physical and engineering properties, measurement techniques, and behavior of soils. PREREQ: CE 350 or CMGT 310 or ME 350, and upper-division status in civil engineering.

**CE 361 ENGINEERING PROPERTIES OF SOILS LAB (0-3-1)(F/S).** Use of test apparatus in the evaluation of soils. PRE/COREQ: CE 360 and ENGR 205.

**CE 370 TRANSPORTATION ENGINEERING FUNDAMENTALS (3-0-3)(S).** Planning, design, and operations of multi-modal transportation systems. PRE/COREQ: MATH 275 and upper-division status in civil engineering.

**CE 402 COMPUTATIONAL TECHNIQUES (3-0-3)(F/S).** Introduction of numerical methods to solve Civil Engineering problems with emphasis on Geotechnical Engineering problems. In-depth treatment of finite difference and integrated finite difference. Brief introduction to finite element methods and programming using MATLAB. PREREQ: CE 360, MATH 333, knowledge of programming, or PERM/INST.

**CE 410 ENGINEERING HYDROLOGY (3-0-3)(F).** Integrated approach to hydrology, using the hydrologic/system or control volume as a mechanism for analyzing hydrologic problems and hydrologic processes—water cycle, atmospheric water, surface and subsurface water, hydrologic analysis and design, design storms and peak flow and design flow estimation; hydrologic design methods; snowmelt runoff and evapotranspiration. PREREQ: CE 330, MATH 275 or PERM/INST.

**CE 412 (GEOS 412) HYDROGEOLOGY (3-0-3)(S).** Introduction to the hydrologic cycle focusing on subsurface water and its relationships to surface water.

Physics of flow through porous media, physical properties of aquifer systems, methods to determine aquifer characteristics, groundwater modeling and relationships between groundwater and streamflow. May be taken for either CE or GEOS credit, but not both. PREREQ: PHYS 111 or PHYS 211, MATH 175 and GEOS 212 or CE 330 or ME 330.

**CE 420 ENVIRONMENTAL PROCESS CHEMISTRY (3-0-3)(S)(Even years).** Chemical principles of water and wastewater treatment processes and reactions in receiving waters. Topics include chemical thermodynamics, reaction kinetics, acid-base equilibria, mineral precipitation/dissolution, and electrochemistry. PREREQ: CE 320 or PERM/INST.

**CE 422 HAZARDOUS WASTE ENGINEERING (3-0-3)(S)(Odd years).** Physical, chemical, and biological treatment of hazardous wastes. Consideration of legal and political issues. PREREQ: CHEM 112.

**CE 423 AIR POLLUTION CONTROL ENGINEERING (3-0-3)(S)(Even years).** This course surveys the sources, fates, effects and control of air pollutants. Industrial, agricultural, and municipal contributions to acid rain, smog, and toxic air pollutants in fish and humans are covered. Students will demonstrate skill in the use of mathematical and computer predictions for the fate of air pollutants in the design of air pollution control systems and be able to communicate engineering concepts in oral presentations and in writing. PREREQ: CE 320 or PERM/INST.

**CE 424 WATER TREATMENT DESIGN (3-0-3)(F/S).** Theoretical and practical engineering aspects of advanced chemical and physical phenomena and processes applicable to the design for removal of impurities from ground and surface water sources, including experimental problem analysis, conveyance systems and optimal treatment solution reporting. PREREQ: CE 320. PRE/COREQ: CE 330 or ME 330.

**CE 425 WASTEWATER TREATMENT DESIGN (3-0-3)(F/S).** Theoretical and practical engineering aspects of advanced chemical, physical and biological phenomena and processes applicable to the design for removal of impurities from wastewater and industrial wastes and to their transformation in receiving waters, including experimental problem analysis, collection system conveyance and optimal treatment solution reporting. PREREQ: CE 320. PRE/COREQ: CE 330 or ME 330.

**CE 426 (GEOS 426) AQUEOUS GEOCHEMISTRY (3-0-3)(F).** Basic tools and topics of aqueous geochemistry with an emphasis on low temperature process in natural waters. Essentials of thermodynamics, kinetics, aqueous speciation, mineral-water interaction, and elemental cycling in the context of surficial earth processes and environmental challenges. Completion of or co-enrollment in MATH 175 is recommended. May be taken for CE or GEOS credit, but not both. PREREQ: CHEM 112, MATH 170.

**CE 436 HYDRAULICS (3-0-3)(F)(Even years).** Applied principles of fluid mechanics, pipe flow, open channel flow, flow nets, and hydraulic machinery. Design. PREREQ: CE 330 or ME 330.

**CE 437 GIS IN WATER RESOURCES (3-0-3)(F/S)(Odd years).** Applications of geographic information systems (GIS) in pre- and post-processing of model inputs and outputs, digital elevation models, flow direction and flow accumulation, spatial analysis and interpretation, Model builder, data model, tools, functionality and examples of real-world water and natural resource problems and integration of external models (e.g., SWAT). PREREQ: CE 416, GEOG 360 or PERM/INST.

**CE 438 WATER RESOURCES ENGINEERING (3-0-3)(F/S).** Flood frequency analysis, reservoir characteristics and design, open channel flow applications, probability, risk and uncertainty analysis, water project design, model studies, water resources planning and management, and system analysis. PREREQ: CE 330 or ME 330.

**CE 440 PAVEMENT ANALYSIS AND DESIGN (3-0-3)(F/S).** Pavement design processes, materials selection and characterization methods, analysis and design of flexible pavements, analysis and design of rigid concrete pavements, pavement condition survey and ratings, distress evaluation and maintenance and rehabilitation techniques. PREREQ: CE 340, CE 341, and CE 370, or PERM/INST.

**CE 442 MICROSTRUCTURE, PROPERTIES, AND PERFORMANCE OF CONCRETE (3-0-3)(F/S).** Basic properties of cements and mineral aggregates and their interactions in concrete from a microstructural perspective. Special emphasis on: properties of hydrated products and hardened concrete; modifications through admixtures; production, handling, and placement problems; specifications; quality control and acceptance testing; lightweight, heavyweight, and other special concrete mixtures. Project topics will include design and testing of advanced concrete concepts for durable, sustainable, and resilient infrastructure. PREREQ: CE 340 or MSE 245.

**CE 450 REINFORCED CONCRETE DESIGN (2-3-3)(F/S).** Design of reinforced concrete structures, such as beams, columns, one way slabs, and simple footings, in accordance with latest ACI Code for Reinforced Concrete. PREREQ: CE 352.

**CE 452 STRUCTURAL STEEL DESIGN (2-3-3)(F/S).** Design of steel structures, such as beams and columns, in accordance with latest *AISC Manual of Steel Construction*, LRFD edition. PREREQ: CE 352.

**CE 454 TIMBER DESIGN (3-0-3)(F/S).** Design of wood, and wood composite, structures and systems based on mechanical and structural characteristics and specifications. PREREQ: CE 352.

**CE 456 MASONRY DESIGN (3-0-3)(F/S).** Design of masonry structures and systems based on mechanical and structural characteristics and specifications. PREREQ: CE 352.

**CE 460 GEOTECHNICAL ENGINEERING DESIGN I (3-0-3)(F/S).** Subsoil exploration and site investigation methodologies. Soil mechanics in design of earth retaining structures, shallow and deep foundations. PREREQ: CE 360 and CE 361.

**CE 462 GEOTECHNICAL ENGINEERING DESIGN II (3-0-3)(F/S).** Application of soil mechanics in the design of embankments, slopes, and excavations. PREREQ: CE 360 and CE 361.

**CE 466 GROUND IMPROVEMENT DESIGN (3-0-3)(F/S).** Introduction to ground improvement techniques for various problematic soils necessitated by the growing demand for construction in challenging geologies. Emphasis on understanding methods available to strengthen existing ground as alternative to costly foundation designs. Exploration of pros and cons of multiple ground improvement techniques, under four, broad categories: mechanical, hydraulic, chemical/thermal, and physical. Design and implement the most appropriate ground improvement technique for a given geological condition. PREREQ: CE 360 and CE 361.

**CE 470 HIGHWAY SYSTEMS DESIGN (3-0-3)(F/S).** Design of urban and rural highway systems. Use of software is required. PREREQ: CE 360 and CE 370.

**CE 472 TRANSPORTATION PLANNING (3-0-3)(F/S).** Theory and practice of transportation planning at the metropolitan as well as regional levels. Use of software is required. Recent advances in transportation planning will be introduced. PREREQ: CE 370 or PERM/INST.

**CE 475 TRAFFIC SYSTEMS DESIGN (3-0-3)(F/S).** The course covers the design of operations, control, and management of traffic systems. Use of software is required. PREREQ: CE 370 or PERM/INST.

**CE 481 SENIOR DESIGN PROJECT I (1-0-1)(F).** Capstone design experience integrating previous coursework with modern design theory and methodology. Creation of teams and proposals to be carried out in CE 483. PREREQ: CE 320, CE 330, CE 340, CE 352, CE 360, and CE 370.

**CE 483 SENIOR DESIGN PROJECT II (2-2-3)(S)(FF).** Capstone design experience integrating previous coursework with modern design theory and methodology. Applied through a comprehensive individual or group project, integrating criteria based on customer, code, and engineering requirements. Includes a series of progress reports and a final formal presentation. PREREQ: CE 481.

**CE 485 REVIEW OF CIVIL ENGINEERING (1-0-1)(F/S).** Review of basic engineering and science material covered in civil engineering curriculum. (Pass/Fail.) PREREQ: Senior standing or PERM/INST.

# Department of Communication and Media

College of Arts and Sciences

Communication Building, Room 100  
(208) 426-3320 (phone)  
commdept@boisestate.edu (email)  
<https://www.boisestate.edu/comm-media/> (website)

*Department Head and Professor:* Todd Norton. *Professor:* Reeder, Souza. *Associate Professors:* Ashley, Lane, e. mcclellan, J. McClellan, Most, Rossetto, Traynowicz. *Assistant Professor:* Kang. *Lecturers:* Hill, Klassen, C. Moore. *Media Arts Internship Coordinator and Professor:* Rick Moore. *Public Relations Certificate, PR Internship Coordinator, Media Arts Program Coordinator and Associate Professor:* Mary Frances Casper. *Digital Media Certificate Coordinator and Associate Professor:* Daehwan Cho. *Graduate Studies Program Coordinator, Communication Internship Coordinator and Associate Professor:* Matthew Isbell. *Director of Forensics and Associate Professor:* Manda Hicks. *Assistant Director of Forensics and Assistant Professor:* Amy Arellano. *Director of Advising and Visiting Associate Professor:* Mary Rohlfling. *Sport Information & Culture Coordinator and Professor:* Todd Norton. *Director of University Television Production and Broadcast Properties, and Lecturer:* Nathan Snyder. *Director of COMM 101 and Lecturer:* Rebecca Robideaux Tiedge. *Associate Director of University Television:* Lorena Davis.

## Degrees and Certificates Offered

- Bachelor of Arts in Communication
- Bachelor of Arts in Media Arts
  - Journalism and Media Studies Emphasis
  - Public Relations Emphasis
  - Television, Broadcast, and Digital Media Production Emphasis
- Bachelor of Arts in Public Relations (online)
- Minor in Communication
- Minor in Journalism
- Minor in Media Studies
- Minor in Political Communication (see School of Public Service)
- Minor in Professional Communication Skills
- Minor in Social and Cultural Advocacy
- Minor in Workplace Communication
- Certificate in Communication Management
- Certificate in Digital Media
- Certificate in Media Content Management
- Certificate in Public Relations
- Certificate in Sport, Information, and Culture

## Department Statement

The Department of Communication and Media prepares you for successful careers in communication and media arts. You will develop knowledge and skills to ethically and innovatively shape the workplace, produce media content, and navigate a diverse and complex world.

### Bachelor of Arts in Communication

The BA in Communication offers students theoretical and applied learning opportunities to understand, analyze, and practice communication across varied contexts. Embracing a liberal arts approach to education, students learn to be critical thinkers, creative and confident communicators, collaborative decision makers, and engaged citizens.

Communication majors actively engage in classes across two interrelated areas of study: topics in relational and organizational communication focus on improving the ways we live and work well together. Courses in this area help students improve interpersonal, family, group, and workplace communication processes, including relationship development, conflict, collaboration, decision making, and power relations.

Topics in communication, culture and advocacy focus on preparing students to be active and culturally competent citizens. Courses in this area help students understand rhetorical concepts and practices, competently communicate across contexts and cultures, and advocate for themselves and others.

Students earning a BA in Communication are encouraged to pursue minors or certificates in complementary areas of study as well as participate in internships or practicum opportunities to enhance their educational experiences.

### Bachelor of Arts in Media Arts

The BA in Media Arts prepares students for a wide range of professional opportunities in producing, planning, and distributing media content.

Media Arts students apply their skills and expertise in media activities courses with The Arbiter, Blue House Communications, Sport Innovation and Culture, University Pulse Radio, and University Television Productions, and in internships with prominent organizations.

Students specialize their competencies and skills in one of the following emphases: Journalism and Media Studies, Media Production, or Public Relations.

The **Journalism and Media Studies Emphasis** trains students in the theory and practice of journalism and provides opportunities for critical examination of the social, cultural, political, and economic dimensions of all media forms, with attention to the role of media in a democratic society.

The **Public Relations Emphasis** trains students in the theory and practice of public relations. Students focus on skill development as they critically examine social, cultural, political, and economic dimensions of the field, with particular attention to ethical practice.

The **Television, Broadcast, and Digital Media Production Emphasis** prepares students for a number of creative careers. Students work both individually and in teams as they explore media performance, visual design, and project management. The emphasis includes three distinct areas, each with its own flexible skill set:

- Studio Television - scripting, performance, and directing
- Live Broadcast - sports, news, and entertainment
- Digital Media Production - audio/video, effects and animation, and web design

### Minor in Political Communication

The Department of Communication and Media and the School of Public Service co-administer the Minor in Political Communication. The Political Communication Minor provides students with relevant skills from the disciplines of both communication and political science to prepare students for study at the graduate level, or for careers at the developing nexus of politics and communication. See the Political Communication Minor section in this chapter.

### Bachelor of Arts in Public Relations (Online)

The BA in Public Relations is a fully online, 60-credit degree-completion program designed to meet the growing and shifting demands for communication and media professionals in corporate, non-profit, health, sport, and government agencies. The 7-week courses integrate communication and media competencies within a public relations framework. Graduates will be able to:

- produce public relations content using cutting-edge communications technologies
- manage media and social media relations
- create, carry out, and evaluate pr campaigns
- deal with media law considerations
- manage professional processes and relationships



## Degree Requirements

| Communication Bachelor of Arts  |         |
|---|---------|
| Course Number and Title   | Credits |
| University Foundations requirements indicated in bold. See page 48 for details and lists of approved courses.   |         |
| <b>UF 100</b> Foundations of Intellectual Life  | 3       |
| <b>UF 200</b> Foundations of Ethics and Diversity   | 3       |
| <b>FW ENGL 101</b> Writing and Rhetoric I   | 3       |
| <b>FW ENGL 102</b> Writing and Rhetoric II  | 3       |
| <b>FC</b> Foundations of Oral Communication (COMM 101 recommended)  | 3       |
| <b>FM</b> Foundations of Mathematics course   | 3-4     |
| <b>FN</b> Foundations of Natural, Physical, & Applied Sciences course with lab  | 4       |
| <b>FN</b> Foundations of Natural, Physical, & Applied Sciences course in a second field   | 3-4     |
| <b>FA</b> Foundations of Arts course  | 3       |
| <b>FH</b> Foundations of Humanities course  | 3-4     |
| <b>FS</b> Foundations of Social Sciences course   | 3       |
| <b>FS</b> Foundations of Social Sciences course in a second field   | 3       |
| COMM 160 Communication and Culture  | 3       |
| COMM 221 Interpersonal Communication  | 3       |
| COMM 231 Public Speaking  | 3       |
| COMM 304 Perspectives of Communication  | 3       |
| Communication Theory: choose one (1) course:<br>COMM 321 Rhetorical Theories<br>COMM 389 Theory and Philosophy of Communication   | 3       |
| Methods: choose one (1) course:<br>COMM 302 Research Methods<br>COMM 331 Message Analysis and Criticism   | 3       |
| Topics in Relational and Organizational Communication: choose two (2) courses:<br>COMM 341 Nonverbal Communication<br>COMM 356 Communication in the Small Group<br>COMM 361 Organizational Communication<br>COMM 390 Conflict Management<br>COMM 435 Collaboration and Facilitation<br>COMM 481 Studies in Interpersonal Communication<br>COMM 483 Studies in Organizational Communication      | 6       |
| Topics in Communication, Culture, and Advocacy: choose two (2) courses:<br>COMM 332 Contemporary Public Communication<br>COMM 351 Intercultural Communication<br>COMM 371 Communication, Gender, and Difference<br>COMM 377 Advanced Public Presentation<br>COMM 412 History of Persuasion<br>COMM 484 Studies in Rhetoric and Public Advocacy<br>COMM 488 Studies in Communication and Culture | 6       |
| Choose nine (9) credits in COMM, JOUR, MEDIA, MEDIAPRO, PR, or SIC.<br>Limit of 3 credits of workshops may be applied to this requirement.  | 9       |
| <b>FF COMM 498</b> Communication Seminar  | 3       |
| Upper-division electives to total 40 credits  | 7-16    |
| Electives to total 120 credits  | 31-34   |
| Total   | 120     |

| Media Arts Bachelor of Arts   |         |
|---|---------|
| Course Number and Title   | Credits |
| University Foundations requirements indicated in bold. See page 48 for details and lists of approved courses.   |         |
| <b>UF 100</b> Foundations of Intellectual Life  | 3       |
| <b>UF 200</b> Foundations of Ethics and Diversity   | 3       |
| <b>FW ENGL 101</b> Writing and Rhetoric I   | 3       |
| <b>FW ENGL 102</b> Writing and Rhetoric II  | 3       |
| <b>FC</b> Foundations of Oral Communication   | 3       |
| <b>FM</b> Foundations of Mathematics course   | 3-4     |
| <b>FN</b> Foundations of Natural, Physical, & Applied Sciences course with lab  | 4       |
| <b>FN</b> Foundations of Natural, Physical, & Applied Sciences course in a second field   | 3-4     |
| <b>FA</b> Foundations of Arts course  | 3       |
| <b>FH</b> Foundations of Humanities course  | 3-4     |
| <b>FS</b> Foundations of Social Sciences course   | 3       |
| <b>FS</b> Foundations of Social Sciences course in a second field   | 3       |
| Three (3) credits from the following:<br>MEDIA 113/213/313 Media Activities: Blue House Agency<br>MEDIA 115/315 Media Activities: Sport Information & Culture<br>MEDIA 116/316 Media Activities: Studio Television for Community<br>MEDIA 117/317 Media Activities: UTP<br>MEDIA 118/318 Media Activities: University Pulse<br>MEDIA 119/319 Media Activities: The Arbiter<br>MEDIA 493 Internship<br>PR 493 Internship | 3       |
| MEDIA 201 Introduction to Media   | 3       |
| MEDIA 300, 300L Media Writing and Lab   | 3       |
| MEDIA 306 Media Theory  | 3       |
| MEDIA 401 Media Law and Ethics  | 3       |
| <b>FF MEDIA 499</b> Media Arts Seminar  | 3       |
| Choose one (1) of the emphasis areas listed below and complete the required course to earn a BA in Media Arts with an emphasis.   |         |
| <b>Journalism and Media Studies Emphasis</b>  |         |
| JOUR 301 Reporting and News Writing   | 3       |
| JOUR 351 Advanced Journalistic Writing  | 3       |
| JOUR 352 Reporting Public Affairs   | 3       |
| MEDIA 301 Multimedia Storytelling   | 3       |
| MEDIA 351 History of Mass Communication   | 3       |
| MEDIA 453 Communication Technology & Social Change  | 3       |
| Choose 9 credits of electives in COMM, JOUR, MEDIA, MEDIAPRO, PR or SIC. No more than a total of 3 credits may be selected from MEDIA 317, MEDIA 319 and MEDIA 493.   | 9       |
| Upper-division electives to total 40 credits  | 0-1     |
| Electives to total 120 credits  | 35-37   |
| Total   | 120     |
| <b>Public Relations Emphasis</b>  |         |
| MEDIA 301 Multimedia Storytelling   | 3       |
| MEDIA 302 Applied Research  | 3       |
| PR 201 Intro to Public Relations  | 3       |
| PR 301 PR Campaigns Strategies  | 3       |
| PR 351 Media and Social Media Strategies  | 3       |

## COMMUNICATION AND MEDIA

|   |       |
|---|-------|
| PR 401 PR Case Studies  | 3     |
| PR 480 Studies in Public Relations  | 3     |
| PR 493 Internship   | 3     |
| Electives to total 120 credits  | 29-32 |
| Total   | 120   |
| <b>Television, Broadcast, and Digital Media Production Emphasis</b>   |       |
| MEDIAPRO 201 Digital Imaging  | 3     |
| MEDIAPRO 202 Audio Production   | 3     |
| MEDIAPRO 301 Video Production   | 3     |
| MEDIAPRO 351 Audio and Video Editing  | 3     |
| Choose 9 credits of electives in COMM, JOUR, MEDIA, MEDIAPRO, PR or SIC. No more than a total of 3 credits may be selected from MEDIA 317, MEDIA 319 and MEDIA 493. | 9     |
| Upper-division electives to total 40 credits  | 4-7   |
| Electives to total 120 credits  | 31    |
| Total   | 120   |

### Admission Requirements

To be admitted into the Public Relations degree-completion program, students must be:

- accepted to Boise State University
- core-certified and have a minimum of 60 semester credits earned from a regionally accredited academic institution, or an associates (AA/AS) degree from a regionally accredited institution

| Public Relations (Online)<br>Bachelor of Arts   |                |
|---|----------------|
| <i>Course Number and Title</i>  | <i>Credits</i> |
| University Foundations requirements indicated in bold. See page 48 for details and lists of approved courses. |                |
| <b>UF 100</b> Foundations of Intellectual Life  | 3              |
| <b>UF 200</b> Foundations of Ethics and Diversity   | 3              |
| <b>FW ENGL 101</b> Writing and Rhetoric I   | 3              |
| <b>FW ENGL 102</b> Writing and Rhetoric II  | 3              |
| <b>FC</b> Foundations of Oral Communication   | 3              |
| <b>FM</b> Foundations of Mathematics course   | 3-4            |
| <b>FN</b> Foundations of Natural, Physical, & Applied Sciences course with lab                                | 4              |
| <b>FN</b> Foundations of Natural, Physical, & Applied Sciences course in a second field                       | 3-4            |
| <b>FA</b> Foundations of Arts course  | 3              |
| <b>FH</b> Foundations of Humanities course  | 3-4            |
| <b>FS</b> Foundations of Social Sciences course   | 3              |
| <b>FS</b> Foundations of Social Sciences course in a second field   | 3              |
| PRO 300 Introduction to Public Relations  | 3              |
| PRO 301 Technology for Professionals  | 2              |
| PRO 302 Preparing for the Profession  | 1              |
| PRO 303 Public Relations Campaign Strategies  | 3              |
| PRO 304 Public Relations Writing  | 3              |
| PRO 310 Interviewing  | 3              |
| PRO 311 Multimedia Storytelling   | 3              |
| PRO 312 Conflict and Collaboration  | 3              |
| PRO 313 Public Relations Ethics   | 3              |

|   |       |
|---|-------|
| PRO 320 Business and Professional Communication           | 3     |
| PRO 321 Applied Research for Professionals                | 3     |
| PRO 322 Media & Social Media Strategies for Professionals | 3     |
| PRO 323 Media Law   | 3     |
| PRO 330 Global Public Relations                           | 3     |
| PRO 331 Public Relations Case Studies                     | 3     |
| PRO 332 Client Relations                                  | 3     |
| PRO 333 Community Relations                               | 3     |
| PRO 400 Crisis Management                                 | 3     |
| PRO 401 Project Management                                | 3     |
| PRO 493 Internship  | 3     |
| <b>FF PRO 499</b> Capstone                                | 3     |
| Electives to total 120 credits                            | 20-23 |
| Total   | 120   |

Students outside the major can pursue a minor in communication to develop important communication competencies as a meaningful addition to an overall university education.

Students are eligible to earn only one minor in communication, choosing from: the Communication Minor, the Workplace Communication Minor, the Social and Cultural Advocacy Minor, or the Professional Communication Skills Minor.

| Communication Minor  |                |
|--|----------------|
| <i>Course Number and Title</i>   | <i>Credits</i> |
| Introduction to Communication choose two (2)<br>COMM 160 Communication and Culture<br>COMM 221 Interpersonal Communication<br>COMM 231 Public Speaking | 6              |
| Upper-division Communication courses*  | 15             |
| Total  | 21             |
| *No more than a total of 3 credits may be selected from COMM 314, COMM 451, or COMM 493. Limit of 3 credits of workshops may be applied to this minor. |                |

| Journalism Minor   |                |
|--|----------------|
| <i>Course Number and Title</i>                                     | <i>Credits</i> |
| MEDIA 201 Introduction to Media                                    | 3              |
| MEDIA 301 Multimedia Storytelling                                  | 3              |
| JOUR 301 Reporting and News Writing                                | 3              |
| JOUR 351 Advanced Journalistic Writing                             | 3              |
| JOUR 352 Reporting Public Affairs                                  | 3              |
| MEDIA 319 Media Activities: The Arbiter or<br>MEDIA 493 Internship | 3              |
| MEDIA 401 Media Law and Ethics                                     | 3              |
| Total  | 21             |

| Media Studies Minor                                |                |
|--|----------------|
| <i>Course Number and Title</i>                     | <i>Credits</i> |
| MEDIA 201 Introduction to Media                    | 3              |
| MEDIA 303 Media Aesthetics and Culture             | 3              |
| MEDIA 351 History of Mass Communication            | 3              |
| MEDIA 401 Media Law and Ethics                     | 3              |
| MEDIA 452 Media and Democracy                      | 3              |
| MEDIA 453 Communication Technology & Social Change | 3              |
| MEDIA 480 Studies in Media Theory                  | 3              |
| Total  | 21             |

The Professional Communication Skills Minor focuses on communication skills necessary for professional development in any endeavor. Pursuing a Professional Communication Skills Minor provides opportunities to develop communicative competencies needed for ongoing personal and professional success.

| Professional Communication Skills Minor  |                |
|--|----------------|
| <i>Course Number and Title</i>   | <i>Credits</i> |
| Introduction to Communication choose two (2)<br>COMM 160 Communication and Culture<br>COMM 221 Interpersonal Communication<br>COMM 231 Public Speaking   | 6              |
| Upper Division Communication Courses choose five (5)<br>COMM 307 Interviewing<br>COMM 314 Communication Activities: Forensics<br>COMM 351 Intercultural Communication<br>COMM 356 Communication in the Small Group<br>COMM 361 Organizational Communication<br>COMM 371 Communication Gender and Difference<br>COMM 377 Advanced Public Presentation<br>COMM 390 Conflict Management<br>COMM 412 History of Persuasion<br>COMM 414 Intercollegiate Debate<br>COMM 435 Collaboration and Facilitation | 15             |
| Total  | 21             |

The Social and Cultural Advocacy Minor focuses on communication associated with advocating for self and others. Pursuing a Social and Cultural Advocacy Minor provides opportunities to develop communication competencies necessary for cultural understanding and advocacy as a part of active community and civic engagement.

| Social and Cultural Advocacy Minor  |                |
|---|----------------|
| <i>Course Number and Title</i>  | <i>Credits</i> |
| Introduction to Communication choose two (2)<br>COMM 160 Communication and Culture<br>COMM 221 Interpersonal Communication<br>COMM 231 Public Speaking  | 6              |
| Upper Division Communication Courses choose five<br>COMM 314 Communication Activities: Forensics<br>COMM 321 Rhetorical Theories<br>COMM 332 Contemporary Public Communication<br>COMM 351 Intercultural Communication<br>COMM 371 Communication, Gender, and Difference<br>COMM 377 Advanced Public Presentation<br>COMM 412 History of Persuasion<br>COMM 414 Intercollegiate Debate<br>COMM 484 Studies in Rhetoric and Public Advocacy<br>COMM 488 Studies in Communication and Culture | 15             |
| Total   | 21             |

The Workplace Communication Minor focuses on communication related to the workplace. Pursuing a Workplace Communication Minor provides opportunities to develop interpersonal skills and other communicative competencies necessary to promote quality relationships and collaborative workplaces.

| Workplace Communication Minor  |                |
|--|----------------|
| <i>Course Number and Title</i>   | <i>Credits</i> |
| Introduction to Communication choose two (2)<br>COMM 160 Communication and Culture<br>COMM 221 Interpersonal Communication<br>COMM 231 Public Speaking | 6              |

|  |    |
|--|----|
| Upper Division Communication Courses choose five (5)<br>COMM 307 Interviewing<br>COMM 341 Nonverbal Communication<br>COMM 356 Communication in the Small Group<br>COMM 361 Organizational Communication<br>COMM 389 Theory and Philosophy of Communication<br>COMM 390 Conflict Management<br>COMM 435 Collaboration and Facilitation<br>COMM 481 Studies in Interpersonal Communication<br>COMM 483 Studies in Organizational Communication | 15 |
| Total  | 21 |

| Communication Teaching Endorsement  |                |
|---|----------------|
| <i>Course Number and Title</i>  | <i>Credits</i> |
| COMM 114/314 Communication Activities: Forensics  | 2              |
| COMM 214/414 Intercollegiate Debate   | 2              |
| COMM 221 Interpersonal Communication  | 3              |
| COMM 231 Public Speaking  | 3              |
| COMM 321 Rhetorical Theories  | 3              |
| COMM 332 Contemporary Public Communication  | 3              |
| COMM 390 Conflict Management  | 3              |
| Total   | 19             |
| See Department of Curriculum, Instruction, and Foundational Studies for more information. |                |

### Certificate Requirements

A certificate demonstrates the completion of a concentrated area of study. To earn a certificate one must first hold a degree. Or, students may enroll in certificate programs concurrently while working on a degree. Community members who already hold a degree may enroll in the department's certificate programs.

The **Certificate in Communication Management** is a fully-online program that focuses on managing professional processes and relationships. By completing the certificate, students will be prepared for both internal and external communication such as employee communication, collaboration, business communication, and community relations.

| Communication Management Certificate  |                |
|---|----------------|
| <i>Course Number and Title</i>  | <i>Credits</i> |
| PRO 301 Technology for Professionals  | 2              |
| PRO 303 Public Relations Campaign Strategies  | 3              |
| PRO 320 Business and Professional Communication   | 3              |
| Choose two (2)<br>PRO 310 Interviewing<br>PRO 312 Conflict and Collaboration<br>PRO 321 Applied Research for Professionals<br>PRO 332 Client Relations<br>PRO 333 Community Relations   | 6              |
| PRO 499 Capstone  | 3              |
| Total   | 17             |
| The Communication Management Certificate will be awarded following completion of an associate or baccalaureate degree. All courses used toward the Communication Management Certificate must be passed with a grade of C or higher. |                |

## COMMUNICATION AND MEDIA

The **Certificate in Digital Media** provides historical, aesthetic and practical understandings of cinema and digital media through an interdisciplinary programs.

| Digital Media Certificate   |                |
|---|----------------|
| <i>Course Number and Title</i>  | <i>Credits</i> |
| MEDIA 301 Multimedia Storytelling   | 3              |
| MEDIA 304 Visual Communication  | 3              |
| MEDIA 401 Media Law and Ethics  | 3              |
| MEDIAPRO 201 Digital Imaging  | 3              |
| MEDIAPRO 303 Web Design   | 3              |
| MEDIAPRO 361 Motion Graphics  | 3              |
| <b>Total</b>  | <b>18</b>      |
| The Digital Media certificate will be awarded following completion of an associate or baccalaureate degree. Students majoring in Media Arts with a Television, Broadcast, and Digital Media Production Emphasis are not eligible for the Digital Media certificate. |                |

| Media Content Management Certificate (Online)  |                |
|--|----------------|
| <i>Course Number and Title</i>   | <i>Credits</i> |
| PR 301 PR Campaigns Strategies   | 2              |
| PRO 304 Public Relations Writing   | 3              |
| PRO 323 Media Law  | 3              |
| Choose two (2) of the following:<br>PRO 311 Multimedia Storytelling<br>PRO 313 Public Relations Ethics<br>PRO 322 Media & Social Media Strategies for Professionals<br>PRO 330 Global Public Relations<br>PRO 332 Client Relations | 6              |
| PRO 499 Capstone   | 3              |
| <b>Total</b>   | <b>17</b>      |
| The Media Content Management Certificate will be awarded following completion of an associate or baccalaureate degree. All courses used toward the Media Content Certificate must be passed with a grade of C- or higher.          |                |

The **Certificate in Public Relations** provides a concentrated, comprehensive, and applied understanding of public relations with a focus on career planning and professional development.

| Public Relations Certificate  |                |
|---|----------------|
| <i>Course Number and Title</i>  | <i>Credits</i> |
| MEDIA 300, 300L Media Writing and Lab   | 3              |
| MEDIA 302 Applied Research  | 3              |
| MEDIA 499 Media Arts Seminar  | 3              |
| PR 201 Intro to Public Relations  | 3              |
| PR 301 PR Campaigns Strategies  | 3              |
| PR 351 Media and Social Media Strategies  | 3              |
| PR 401 PR Case Studies  | 3              |
| PR 480 Studies in Public Relations  | 3              |
| PR 493 Internship   | 3              |
| <b>Total</b>  | <b>27</b>      |
| The Public Relations Certificate will be awarded following completion of an associate or baccalaureate degree. Students majoring in Media Arts with a Public Relations Emphasis are not eligible for the Certificate in Public Relations. |                |

| Sport, Information, and Culture Certificate  |                |
|--|----------------|
| <i>Course Number and Title</i>   | <i>Credits</i> |
| JOUR 301 Reporting and News Writing or<br>MEDIAPRO 304 Visual Communication  | 3              |
| MEDIA 301 Multimedia Storytelling  | 3              |
| MEDIA 302 Applied Research   | 3              |
| PR 201 Intro to Public Relations   | 3              |
| SIC 301 Sport, Culture, and Society  | 3              |
| SIC 401 Sport Marketing or<br>MKTG 442 Sports Marketing  | 3              |
| SIC Topics. Choose one (1) course:<br>MEDIA 352 Client Relations and Project Management<br>MEDIAPRO 311 Media Performance<br>SIC 351 Hip-Hop Innovation and Sport<br>SIC 403 Field Research in Sport & Sport Culture<br>SIC 480 Studies in Sport, Information, and Culture | 3              |
| <b>Total</b>   | <b>21</b>      |
| The Sport, Information, and Culture Certificate will be awarded following completion of an associate or baccalaureate degree. All courses used toward the Sport, Information, and Culture Certificate must be passed with a grade of C or higher.                          |                |

## Course Offerings

### COMM—Communication

#### Lower Division

**COMM 101 FUNDAMENTALS OF ORAL COMMUNICATION (3-0-3) (F, S, SU)(FC).** A theoretical and contextual overview of the communication discipline, including concepts and models of communication; verbal and nonverbal messages; communication ethics; perception; and listening in public, interpersonal, group/team, and mass communication contexts. Incorporates research, preparation, critique, adaptation, and delivery of informative and persuasive messages in public presentations.

**COMM 111 (MEDIA 111) INTRO TO THE COMMUNICATION AND MEDIA ARTS MAJORS (1-0-1)(F/S).** In addition to learning about the options available to them in studying communication and media arts, students also learn about the careers to which such study may lead, and the habits of successful learners.

**COMM 112 REASONED DISCOURSE (3-0-3)(F/S)(FS).** Introduction to logical reasoning and the role of the advocate in a free society. Analysis of propositions, issues, arguments, evidence, fallacies of arguments, and various systems of reasoning. Preparation for and participation in activities designed to apply the principles of logical reasoning in the public forum.

**COMM 114 COMMUNICATION ACTIVITIES: FORENSICS (2-0-1)(F/S).** Preparation for and participation in intercollegiate forensics (speech and debate) competition and community speaking activities. Course may be repeated for credit. PREREQ: PERM/INST. COREQ: COMM 214 or COMM 414.

**COMM 131 LISTENING (3-0-3)(F/S).** Theory and practice of our most-used communication skill. Analysis of variables as they promote or impede the process of listening.

**COMM 160 COMMUNICATION AND CULTURE (3-0-3)(F/S).** Introduction to the study of communication and culture. Examination of central concepts and theories in the field of communication and cultural studies, and focus upon current issues and theoretical perspectives in the study of rhetoric, communication relationships, and the art and performance of communication.

**COMM 214 INTERCOLLEGIATE DEBATE (1-0-1)(F/S).** Preparation for and participation in intercollegiate tournament debate. Course may be repeated for credit. PREREQ: PERM/INST. COREQ: COMM 114 or COMM 314.

**COMM 221 INTERPERSONAL COMMUNICATION (3-0-3)(F/S).**

Examination of interaction between persons. Focuses on an awareness of how the self, the communication process, and contexts affect interpretations, outcomes, and relationships.

**COMM 231 PUBLIC SPEAKING (3-0-3)(F/S).** Analysis of methods and techniques of message composition. Practice in the presentation of public speeches.

**Upper Division**

**COMM 302 RESEARCH METHODS (3-0-3)(F/S).** Historical, critical, descriptive, and experimental research methods and tools in communication. Students design, conduct, report, and evaluate research projects. PREREQ: Upper-division standing and one of the following: COMM 160, COMM 221, COMM 231, MEDIA 201, or ENGL 302.

**COMM 304 PERSPECTIVES OF COMMUNICATION (3-0-3)(F/S).**

Explores the field of communication across varied contexts and applications. Various perspectives, methods of inquiry, and topics in contemporary communication studies will be explored. PREREQ: COMM 160, COMM 221, and COMM 231.

**COMM 307 INTERVIEWING (3-0-3)(F/S).** Examines the process of interviewing in multiple communication contexts including print and broadcast journalism, public information sessions, career recruitment and employment, performance reviews, and professional development.

**COMM 314 COMMUNICATION ACTIVITIES: FORENSICS (2-0-1)(F/S).** Preparation for and participation in intercollegiate forensics (speech and debate) competition and community speaking activities. Course may be repeated for credit. PREREQ: PERM/INST. COREQ: COMM 214 or COMM 414.

**COMM 321 RHETORICAL THEORIES (3-0-3)(F/S).** Examination of theories concerning the complexity of interaction among ideas, messages, and people, including analysis of various message strategies. PREREQ: Upper-division standing and one of the following: COMM 160, COMM 221, COMM 231, ENGL 212, ENGL 302, or ENGL 304.

**COMM 331 MESSAGE ANALYSIS AND CRITICISM (3-0-3)(F/S).** An evaluation of methods of analyzing and criticizing messages and their application to making critical appraisals of public communication. PREREQ: upper-division standing and one of the following: Upper-division standing and one of the following: COMM 160, COMM 221, COMM 231, ENGL 212, or ENGL 302.

**COMM 332 CONTEMPORARY PUBLIC COMMUNICATION (3-0-3)(F/S).** The nature, function, and influence of public communication in contemporary society. An examination of major events and issues in an attempt to identify particular characteristics of public dialogue which reflect, reinforce, and alter public opinion. PREREQ: Upper-division standing.

**COMM 341 NONVERBAL COMMUNICATION (3-0-3)(F/S).** An examination of the function of nonverbal behavior codes in communication. PREREQ: Upper-division standing.

**COMM 351 INTERCULTURAL COMMUNICATION (3-0-3)(F/S).** An analysis of societal and cultural influences on interpersonal communication. A critical examination of communication within and among subcultures as well as across cultural boundaries. PREREQ: Upper-division standing.

**COMM 356 COMMUNICATION IN THE SMALL GROUP (3-0-3)(F/S).** A study of human interaction in small groups. A blending of theory and practical experience focusing upon group development, roles, norms, team building, problem-solving, conflict, and leadership. PREREQ: Upper-division standing.

**COMM 361 ORGANIZATIONAL COMMUNICATION (3-0-3)(F/S).** Examination and application of historical and contemporary communication theory to the study of organizing processes within and between various types of organizations. PREREQ: Upper-division standing.

**COMM 371 COMMUNICATION, GENDER, AND DIFFERENCE (3-0-3)(F/S).** Explores gender and difference as a communicative performance

and attends to the relational, organizational, cultural, and/or critical study of communication, gender, and difference. PREREQ: Upper-division standing.

**COMM 377 ADVANCED PUBLIC PRESENTATION (3-0-3)(F/S).** Theory and practice in various forms of public communication including public speaking, oral interpretation, storytelling, oral history production, conversation art from ethnographic study, and group performance. PREREQ: Upper-division standing and COMM 231.

**COMM 389 THEORY AND PHILOSOPHY OF COMMUNICATION (3-0-3)(F/S).** Explores various generic philosophies of communication and the perspectives of inquiry they imply, culminating in the articulation of a theory of communication. PREREQ: Upper-division standing and one of the following: COMM 160, COMM 221, COMM 231, ENGL 302, or ENGL 304.

**COMM 390 (CONFLICT 390)(SOC 390) CONFLICT MANAGEMENT (3-0-3)(F, S, SU).** Examination of the causes of conflict, conflict management theory, and conflict management techniques applied in interpersonal, intergroup, organizational, and community settings. Discussion and skill development through experiential learning will focus on such conflict management techniques as interpersonal management, mediation, arbitration, negotiation, and reconciliation. May be taken for credit in COMM, CONFLICT, or SOC but not from more than one department. PREREQ: Upper-division standing.

**COMM 412 HISTORY OF PERSUASION (3-0-3)(F/S).** Emphasis on the history of persuasion in society. Examination of the processes of persuasion as developed over time and across various communication contexts. PREREQ: Upper-division standing.

**COMM 414 INTERCOLLEGIATE DEBATE (1-0-1)(F/S).** Preparation for and participation in intercollegiate tournament debate. Course may be repeated for credit. PREREQ: PERM/INST. COREQ: COMM 114 or COMM 314.

**COMM 435 COLLABORATION AND FACILITATION (3-0-3)(F/S).** Examines the role of communication in the theory and practice of collaboration and the role of facilitation in supporting change practices in workplaces and public arenas. PREREQ: Upper-division standing.

**COMM 451 COMMUNICATION PRACTICUM (Variable 1-4)(F/S).** Directed study emphasizing the practical application of skills and theory relevant to human communication. An opportunity to focus on areas of special interest to the student. May be repeated for a total of four credits.

**COMM 481 STUDIES IN INTERPERSONAL COMMUNICATION (3-0-3)(F/S).** Explores contemporary topics and perspectives that focus on the intersections between communication and interpersonal relationships. Content varies from semester to semester. Course may be repeated for credit. PREREQ: Upper-division standing.

**COMM 483 STUDIES IN ORGANIZATIONAL COMMUNICATION (3-0-3)(F/S).** Explores contemporary topics and perspectives associated with the intersections between communication and organization. Content varies from semester to semester. Course may be repeated for credit. PREREQ: Upper-division standing.

**COMM 484 STUDIES IN RHETORIC AND PUBLIC ADVOCACY (3-0-3)(F/S).** Explores contemporary topics and perspectives that focus on the intersections between rhetoric and public advocacy. Content varies from semester to semester. Course may be repeated for credit. PREREQ: Upper-division standing.

**COMM 488 STUDIES IN COMMUNICATION AND CULTURE (3-0-3)(F/S).** Explores contemporary topics and perspectives that focus on the intersection between communication and culture. Content varies from semester to semester. Course may be repeated for credit. PREREQ: Upper-division standing.

**COMM 493 INTERNSHIP (Variable Credit)(F, S, SU).** Supervised fieldwork. For more information on internships, see University-Wide Courses in Chapter 11. PREREQ: COMM 304 or MEDIA 201, minimum cumulative GPA of 2.75 and PERM/INST.

## COMMUNICATION AND MEDIA

**COMM 496 INDEPENDENT STUDY (1-4 Credits)(F, S, SU).** Individual study of either a reading or project nature. For more information on independent study, see University-Wide Courses in Chapter 11.

**COMM 498 COMMUNICATION SEMINAR (3-0-3)(F, S)(FF).** Students demonstrate their ability to theorize, discover, analyze, evaluate, report, and defend a research project about human communication. PREREQ: Senior Standing; COMM 304; one of the following theory courses: COMM 321 or COMM 389; and one of the following methods courses: COMM 302 or COMM 331.

### JOUR—Journalism

#### Upper Division

**JOUR 301 REPORTING AND NEWS WRITING (3-0-3)(F, S).**

Fundamentals of reporting, from techniques of interviewing and fact-gathering through the construction of the news story. Emphasis on accuracy, conciseness, and clarity in writing. Study of newspaper styles, usage, grammar, punctuation, capitalization, and the use of copy editing symbols. PREREQ: MEDIA 201.

**JOUR 351 ADVANCED JOURNALISTIC WRITING (3-0-3)(F/S).**

Advanced instruction in various forms of journalistic writing, including feature and critical writing. PREREQ: JOUR 301.

**JOUR 352 REPORTING PUBLIC AFFAIRS (3-0-3)(F/S).** Theory and practice of covering governmental and community affairs. Examination of the beat system and developing sources. PREREQ: JOUR 301.

**JOUR 480 STUDIES IN JOURNALISTIC COMMUNICATION (3-0-3)(F/S).** Advanced instruction in theories about, history of, and preparation of nonfiction content for the mass media. Content varies from semester to semester. Subjects may include public affairs reporting, journalism history, documentary scriptwriting, etc. Course may be repeated for credit. PREREQ: MEDIA 201.

### MEDIA—Media Arts

#### Lower Division

**MEDIA 111 (COMM 111) INTRO TO THE COMMUNICATION AND MEDIA ARTS MAJORS (1-0-1)(F/S).** In addition to learning about the options available to them in studying communication and media arts, students also learn about the careers to which such study may lead, and the habits of successful learners.

**MEDIA 113 MEDIA ACTIVITIES: BLUE HOUSE AGENCY (0-2-1)(F/S).** Entry level participation in the student-run communications agency specializing in public relations. Student teams work with clients on a variety of professional projects. Participation includes membership in the Public Relations Student Society of America.

**MEDIA 115 MEDIA ACTIVITIES: SPORT, INFORMATION, AND CULTURE (0-2-1)(F/S).** Participation in Sport Information and Culture Student Association (SICSA), a registered student organization for students enrolled in the Sport Information and Culture (SIC) certificate program. Course may be repeated for credit.

**MEDIA 116 MEDIA ACTIVITIES: STUDIO TELEVISION FOR COMMUNITY (3-0-3)(F, S).** Production of television programming for community organizations and citizens for airing on TVTV. Course may be repeated for credit.

**MEDIA 117 MEDIA ACTIVITIES: UTP (Variable 1-3)(F/S).** Production of video programming for University Television Productions (UTP). Course may be repeated for credit.

**MEDIA 118 MEDIA ACTIVITIES: UNIVERSITY PULSE (Variable 1-3)(F, S).** Participation in production of student radio. Course may be repeated for credit.

**MEDIA 119 MEDIA ACTIVITIES: THE ARBITER (1-2-3)(F, S).** Participation in reporting, writing and multimedia production for The Arbiter, the independent campus news outlet online and in print. Course may be repeated for credit.

**MEDIA 201 INTRODUCTION TO MEDIA (3-0-3)(F, S).** Examines constructions of reality in mass communication with an emphasis on the relationship between media and power in society. The course aims to help students become more aware and empowered as consumers and producers of media. PREREQ: ENGL 102.

**MEDIA 213 MEDIA ACTIVITIES: BLUE HOUSE AGENCY (0-4-2)(F/S).** Intermediate level participation in the student-run communications agency specializing in public relations. Student teams work with clients on a variety of professional projects. Participation includes membership in the Public Relations Student Society of America. Course may be repeated for credit. PREREQ: MEDIA 113.

#### Upper Division

**MEDIA 300 MEDIA WRITING (1-0-1)(F/S).** Writing formats and methods for a variety of media platforms, including journalism, media production, and public relations. PREREQ: ENGL 102. COREQ: MEDIA 300L.

**MEDIA 300L MEDIA WRITING LAB (0-6-2)(F/S).** Lab to accompany MEDIA 300. COREQ: MEDIA 300.

**MEDIA 301 MULTIMEDIA STORYTELLING (3-0-3)(F/S).** Learn the basics of telling your story with multimedia. Work in a variety of formats and platforms using web tools and other freely available software. Finish the class with concrete skills and a better understanding of the technologies that are transforming the media.

**MEDIA 302 APPLIED RESEARCH (3-0-3)(F/S).** Prepares Media Arts students for research demands in their respective industries. Takes a client-based approach to research and data-driven decision making. PREREQ: ENGL 102.

**MEDIA 303 MEDIA AESTHETICS AND CULTURE (3-0-3)(F, S).** Examination of the form and cultural values of mass media programs, the relationship between audiences and media products, and approaches to critical analysis of media products. PREREQ: MEDIA 201.

**MEDIA 304 VISUAL COMMUNICATION (3-0-3)(F/S).** Theory and practice of various forms of visual communication, including photography and graphics. PREREQ: Upper-division standing.

**MEDIA 306 MEDIA THEORY (3-0-3)(F, S).** Media theory, including aesthetics, media effects and relationships between media producers, messages, technologies, and users/audiences. PREREQ: MEDIA 300.

**MEDIA 313 MEDIA ACTIVITIES: BLUE HOUSE AGENCY (Variable 1-3)(F/S).** Participation as an elected board member or appointment to special projects for Blue House Agency. Participation includes membership in the Public Relations Student Society of America. Course may be repeated for credit. PREREQ: Election or instructor appointment and PERM/INST.

**MEDIA 315 MEDIA ACTIVITIES: SPORT, INFORMATION, AND CULTURE (0-2-1)(F/S).** Participation as an elected officer in Sport, Information, and Culture Student Association (SICSA), a registered student organization for students enrolled in the Sport, Information, and Culture (SIC) certificate program. Consideration may be made on a case-by-case basis for SIC certificate students conducting substantial volunteer or research work. Course may be repeated for credit. PREREQ: PERM/INST.

**MEDIA 316 MEDIA ACTIVITIES: STUDIO TELEVISION FOR COMMUNITY (3-0-3)(F/S).** Production of television programming for community organizations and citizens for airing on TVTV. Course may be repeated for credit.

**MEDIA 317 MEDIA ACTIVITIES: UTP (Variable 1-3)(F/S).** Production of video programming for University Television Productions. Course may be repeated for credit. PREREQ: MEDIA 117, and MEDIAPRO 201 or MEDIAPRO 301.

**MEDIA 318 MEDIA ACTIVITIES: UNIVERSITY PULSE (Variable 1-3)(F/S).** Participation in production of student radio. Course may be repeated for credit. PREREQ: MEDIA 118 or MEDIAPRO 202.

**MEDIA 319 MEDIA ACTIVITIES: THE ARBITER (1-2-3)(F/S).**

Participation in reporting, writing and multimedia production for The Arbitrator, the independent campus news outlet online and in print. Course may be repeated for credit. PREREQ: MEDIA 119 or JOUR 301.

**MEDIA 351 HISTORY OF MASS COMMUNICATION (3-0-3)(F/S).**

Examines the historical development of mass communication sectors (including journalism, advertising, public relations, and film) in the United States from the colonial era to the recent past and the way they interact with, and help to shape, our social, economic, and political cultures. PREREQ: MEDIA 201.

**MEDIA 352 CLIENT RELATIONS AND PROJECT MANAGEMENT (3-0-3)(F/S).** Students learn to conduct themselves as media arts professionals while learning media-related business and project management methods, processes, and software. PREREQ: Upper-division standing.

**MEDIA 401 MEDIA LAW AND ETHICS (3-0-3)(F/S).** Examination of media-related ethical and legal issues facing media practitioners and the public. PREREQ: MEDIA 201.

**MEDIA 413 MEDIA ACTIVITIES: BLUE HOUSE AGENCY (1-4-3)(F/S).** Students gain specialized professional experience as part of an in-house public relations and outreach team. Team positions include public relations specialists; social media specialists; outreach specialists; events planners; visual communications specialists; multimedia production specialists; writers; and copywriters. May be repeated for credit. PREREQ: Upper-division standing and PERM/INST.

**MEDIA 417 MEDIA ACTIVITIES: UTP (1-4-3)(F/S).** Production of specialized video programming. Variable topics. Course may be repeated for credit. PREREQ: MEDIA 317 and PERM/INST.

**MEDIA 451 PRACTICUM (Variable 1-4)(F/S).** Practical application of skills and theory relevant to Media Arts. An opportunity to focus on areas of special interest to the student. May be repeated for a total of four credits. PREREQ: MEDIA 201, upper-division standing.

**MEDIA 452 MEDIA AND DEMOCRACY (3-0-3)(F, S).** Study of the role of mass communication in the democratic process, focusing upon the ways mass media both contribute to and inhibit the development of a viable public sphere and effective political process. PREREQ: MEDIA 201.

**MEDIA 453 COMMUNICATION TECHNOLOGY AND SOCIAL CHANGE (3-0-3)(F, S).** The history and evolution of communication and mass communication technologies, focusing upon the social/cultural impact of such technologies. PREREQ: MEDIA 201.

**MEDIA 480 STUDIES IN MEDIA THEORY (3-0-3)(F/S).** Critical evaluation of contemporary theoretical trends and issues in the study of mass media. Content varies from semester to semester. Course may be repeated for credit. PREREQ: MEDIA 201.

**MEDIA 493 INTERNSHIP (Variable Credit)(F, S, SU).** Supervised fieldwork. For more information on internships, see University-Wide Courses in Chapter 11. PREREQ: MEDIA 201, minimum cumulative GPA of 2.75, upper-division standing, and PERM/INST.

**MEDIA 493U WORK U (3 credits)(F/S).** Designed to provide students with professional experiences, regardless of their major. Students will develop their professional network alongside a mentor at a Treasure Valley employer. Time will be spent on site with employers and in a weekly class session. The class sessions are designed to unpack what the students are learning on the job, attend interactive workshops, engage with dynamic guest leaders from partner employers, and learn skills that translate directly to a professional setting. PREREQ: MEDIA 201, minimum cumulative GPA of 2.75 and PERM/INST.

**MEDIA 496 INDEPENDENT STUDY (1-4 Credits)(F, S, SU).** Individual study of either a reading or project nature. For more information on independent study, see University-Wide Courses in Chapter 11. PREREQ: MEDIA 201, upper-division standing, and PERM/INST.

**MEDIA 499 MEDIA ARTS SEMINAR (3-0-3)(F, S)(FF).** Students produce and present culminating media arts projects related to their emphasis area.

Projects and supporting research are included in the senior portfolio and presented at the end of the semester. PREREQ: MEDIA 201, MEDIA 301, MEDIA 303, MEDIA 401, MEDIA 452 and senior standing or declared Public Relations Certificate, MEDIA 302, and PR 351.

**MEDIAPRO—Media Production****Lower Division**

**MEDIAPRO 201 DIGITAL IMAGING (3-0-3)(F/S).** Aesthetic, technical, and conceptual practices of 2D digital graphic, design and photography.

**MEDIAPRO 202 AUDIO PRODUCTION (3-0-3)(F, S).** Audio production technologies, strategies, and techniques.

**Upper Division**

**MEDIAPRO 301 VIDEO PRODUCTION (3-0-3)(F, S).** Video production technologies, strategies, and techniques.

**MEDIAPRO 303 WEB DESIGN (3-0-3)(F/S).** Students will learn the fundamental tools of working with HTML, image optimization, CSS, and other web design technologies with knowledge of Adobe Dreamweaver, Photoshop, and Wordpress. PREREQ: MEDIAPRO 201.

**MEDIAPRO 304 WRITING FOR MEDIA (3-0-3)(F/S).** Creative and critical exploration of writing for media production. PREREQ: ENGL 102 and MEDIA 301.

**MEDIAPRO 311 MEDIA PERFORMANCE (3-0-3)(F/S).** Principles and practices of performance for media with a focus on nonverbal communication and vocal delivery. PREREQ: Upper-division standing.

**MEDIAPRO 351 AUDIO AND VIDEO EDITING (3-0-3)(F, S).** Production strategies and techniques of computer-based editing, graphics, and animation. PREREQ: MEDIAPRO 301.

**MEDIAPRO 361 MOTION GRAPHICS (3-0-3)(F/S).** Practice of motion graphics using After Effects, digital video, computer graphic and digital photo technologies. PREREQ: MEDIAPRO 351 or declared Digital Media Certificate, MEDIA 301 and MEDIAPRO 303.

**MEDIAPRO 401 ADVANCED VIDEO PRODUCTION (3-0-3)(F/S).** Advanced work in theory and practice of video production. Development and production of full-length video programs. PREREQ: Upper-division standing and MEDIAPRO 351.

**MEDIAPRO 402 ADVANCED AUDIO PRODUCTION (3-0-3)(F/S).** Advanced work in the theory and practice of audio-production, including advanced production techniques, aesthetic strategies, and multi-track recording and computer-based nonlinear editing. PREREQ: MEDIAPRO 202.

**MEDIAPRO 480 STUDIES IN MEDIA PRODUCTION (3-0-3)(F/S).** Advanced work in the production of media. Specific content varies from semester to semester. Course may be repeated for credit. PREREQ: MEDIA 301.

**PR—Public Relations****Lower Division**

**PR 201 INTRO TO PUBLIC RELATIONS (3-0-3)(F/S).** Public relations as a professional field: history, theory, principles, and practices.

**Upper Division**

**PR 301 PR CAMPAIGN STRATEGIES (3-0-3)(F/S).** Students develop a comprehensive campaign plan for a client to explore campaign strategies. Recommend concurrent enrollment in MEDIA 302. PREREQ: PR 201.

**PR 351 MEDIA AND SOCIAL MEDIA STRATEGIES (3-0-3)(F/S).** Media relations and social media methods, strategies and practices through discussion and project-driven experience. Recommend MEDIA 301 as a prerequisite for this course. COREQ PR 353.

**PR 353 ADVANCED PR WRITING (3-0-3)(F/S).** Advanced theory and practice in producing public relations materials. Content varies from semester to semester. Course may be repeated for credit. PREREQ: MEDIA 301.

**PR 401 PR CASE STUDIES (3-0-3)(F/S).** Examination of public relations

## COMMUNICATION AND MEDIA

issues, impacts, contexts, strategies and applications through case study research. PREREQ: MEDIA 302.

**PR 451 PR STRATEGIES (3-0-3)(F/S).** Advanced theory and practice in specialized public relations strategies. Content varies from semester to semester. Course may be repeated for credit. PREREQ: MEDIA 301, PR 201, PR 301.

**PR 480 STUDIES IN PUBLIC RELATIONS (3-0-3)(F/S).** Examination of public relations applications, areas, issues, and topics. Content varies from semester to semester. Course may be repeated for credit. PREREQ: PR 201, PR 301, and MEDIA 302.

**PR 493 INTERNSHIP (Variable Credit)(F, S, SU).** Supervised fieldwork. For more information on internships, see University-Wide Courses in Chapter 11. PREREQ: PR 201, PR 301, and PR 351, GPA of 2.75 and PERM/INST.

### PRO—Public Relations Online

#### Upper Division

**PRO 300 INTRODUCTION TO PUBLIC RELATIONS (3-0-3)(F, S, SU).** Public relations as a professional field: history, theory, principles, and practices. PREREQ: Admitted to the Public Relations BA program.

**PRO 301 TECHNOLOGY FOR PROFESSIONALS (2-0-2)(F, S, SU).** Students gain competencies with technologies used in the contemporary workplace. PREREQ: Admitted to the Public Relations BA program.

**PRO 302 PREPARING FOR THE PROFESSION (1-0-1)(F, S, SU).** Individual planning and preparation for a public relations career that aligns with each student's interests and values. Creation of a working portfolio to house their work throughout their degree program. (Pass/Fail). COREQ: PRO 300 and Admitted to the Public Relations BA program.

**PRO 303 PUBLIC RELATIONS CAMPAIGN STRATEGIES (3-0-3)(F, S, SU).** Students develop a comprehensive campaign plan for a client to explore appropriate campaign strategies. COREQ: PRO 300 and Admitted to the Public Relations BA program.

**PRO 304 PUBLIC RELATIONS WRITING (3-0-3)(F, S, SU).** Students learn to establish intent, evaluate information, set priorities, and tailor writing to meet the needs of different audiences in a variety of media with clarity, insight, and skill. COREQ: Admitted to the Public Relations BA program and PRO 300.

**PRO 310 INTERVIEWING (3-0-3)(F/S/SU).** Examines the process of interviewing in multiple communication contexts including print and broadcast journalism and public information sessions. PREREQ: PRO 304.

**PRO 311 MULTIMEDIA STORYTELLING (3-0-3)(F/S/SU).** Students use web tools and freely available software to gain concrete skills and understandings of technologies that are transforming the media. PREREQ: PRO 304.

**PRO 312 CONFLICT AND COLLABORATION (3-0-3)(F/S/SU).** Theories and techniques to manage conflict and work collaboratively. PREREQ: PRO 304.

**PRO 313 PUBLIC RELATIONS ETHICS (3-0-3)(F/S/SU).** Theories and principles used in ethical decision-making for public relations and corporate communications, including digital ethics, transparency, and codes of ethics. PREREQ: PRO 304.

**PRO 320 BUSINESS AND PROFESSIONAL COMMUNICATION (3-0-3)(F/S/SU).** Communication tools, processes, and practices in business and professional settings. PREREQ: PRO 304.

**PRO 321 APPLIED RESEARCH FOR PROFESSIONALS (3-0-3)(F/S/SU).** A client-based approach to research and data-driven decision making to prepare students for public relations research demands. PREREQ: PRO 304.

**PRO 322 MEDIA AND SOCIAL MEDIA STRATEGIES FOR PROFESSIONALS (3-0-3)(F/S/SU).** Media relations and social media methods, strategies and practices through discussion and project-driven experience. PREREQ: PRO 304.

**PRO 323 MEDIA LAW (3-0-3)(F/S/SU).** Media-related legal issues facing media and public relations practitioners. PREREQ: PRO 304.

**PRO 330 GLOBAL PUBLIC RELATIONS (3-0-3)(F/S/SU).** Evolution and practice of public relations in different countries with an emphasis on diversity and multiculturalism. PREREQ: PRO 304.

**PRO 331 PUBLIC RELATIONS CASE STUDIES (3-0-3)(F/S/SU).** Analysis and discussion of public relations issues through case study research. PREREQ: PRO 304.

**PRO 332 CLIENT RELATIONS (3-0-3)(F/S/SU).** Business and client management methods, processes, and software. Students apply their knowledge and skills to develop a client dossier. PREREQ: PRO 304.

**PRO 333 COMMUNITY RELATIONS (3-0-3)(F/S/SU).** Principles, philosophy, and techniques for building community relationships that benefit organizations and individuals. PREREQ: PRO 304.

**PRO 400 CRISIS MANAGEMENT (3-0-3)(F/S/SU).** Crisis management theories, methods, and processes. Students apply crisis management knowledge and skills to develop a Crisis Management Plan. PREREQ: Senior standing.

**PRO 401 PROJECT MANAGEMENT (3-0-3)(F, S, SU).** Project management methods, processes, and software. Students apply project management knowledge and skills to develop a Project Management Plan. PREREQ: Senior standing.

**PRO 493 INTERNSHIP (1-3 credits)(F, S, SU).** Supervised fieldwork. Students have the option of enrolling for either 7- or 15-week internships. For more information on internships, see University-Wide Courses in Chapter 11 and read the Communication and Media Department Internship Guidelines available on the department webpage. PREREQ: Senior standing, minimum cumulative public relations program GPA of 2.75, and PERM/INST.

**PRO 499 CAPSTONE (3-0-3)(F, S, SU)(FF).** Students apply their knowledge and skill to produce and present public relations projects, plans and proposals based on research of an industry aligned with their career goals to be included in their senior portfolio. PREREQ: Senior standing.

### SIC—Sport Innovation and Culture

#### Upper Division

**SIC 301 SPORT, CULTURE, AND SOCIETY (3-0-3)(F/S).** Investigates how sport and sport culture is linked to society's institutions, and its impact on society with particular focus on media representations of identities, fan culture, and values. PREREQ: ENGL 102.

**SIC 351 HIP-HOP INNOVATION AND SPORT (3-0-3)(SU).** Examines the history and culture of hip-hop through the major domains of business, sport, and innovation. The synergy of sport as an institution and hip-hop culture (artists, athletes, and fans) is central to the discourse. PREREQ: Upper-division standing.

**SIC 401 SPORT MARKETING (3-0-3)(F/S).** Students apply marketing principles and concepts to sport industries with a focus on fan development, sponsorship, game day experiences, and communication strategies for promotion, publicity, and social media. PREREQ: MEDIA 302.

**SIC 403 FIELD RESEARCH IN SPORT AND SPORT CULTURE (3-0-3)(F/S).** Apply principles of client-based, data-driven research in a field setting. Study sites vary. Students operate as a research team in assessing client needs, developing research plans, creating research instruments, collecting and analyzing data, and preparing/delivering a final report to the client. PREREQ: MEDIA 302.

**SIC 480 STUDIES IN SPORT, INFORMATION, AND CULTURE (3-0-3)(F/S).** Explores contemporary topics and perspectives that focus on sport information and culture. Content varies from semester to semester. Course may be repeated for credit. PREREQ: Upper-division standing.



# Department of Community and Environmental Health

College of Health Sciences

Health Science Riverside, Room 222

(208) 426-3929 (phone)

<https://www.boisestate.edu/ceh/> (website)

*Head and Professor:* Lillian Smith. *Professors:* Baker, Reischl, Spear, Toevs. *Associate Professors:* Mann, Myers, Rauscher, Sand. *Assistant Professors:* Curl, Montrose, Osgood, Schafer, M Smith. *Clinical Assistant Professors:* Hyer, Ketelsen, Lasich. *Lectures:* Dunnagan, Turco.

## Degrees Offered

- Bachelor of Arts in Public Health (online)
- Bachelor of Science in Health Studies
  - General Emphasis
  - Health Informatics and Information Management Emphasis
  - Science Emphasis
- Bachelor of Science in Public Health
  - Environmental and Occupational Health and Safety Emphasis
  - General Emphasis
  - Health Education and Promotion Emphasis
- Minor in Gerontology
- Minor in Health Data Management
- Certificate in Health Data Management
- Certificate in Principles of Grant Development and Proposal Writing
- Certificate in Public Health (online)

## Department Statement

The mission of the Department of Community and Environmental Health (CEH) is to strengthen and improve the overall health of individuals, organizations, the environment, and communities using evidence-based teaching, scholarship, and service. CEH puts students at the center of our work and provides outstanding experiential learning opportunities.

### Bachelor of Science in Health Studies

This degree will prepare you for both clinical and non-clinical careers through the study of science and healthcare services and systems. You will graduate ready to work in a variety of healthcare settings and/or enter professional schools such as medical or dental school (See Pre-Health Pathways below for more information) Choose from three emphasis areas – Health Informatics and Information Management, General, or Science.

**Health Informatics and Information Management Emphasis:** This emphasis combines the power of data and healthcare to improve patient outcomes. You will explore the systems and information technology used in the health industry to collect, manage, analyze, and protect data. You will take courses that combine business, information technology, and health sciences and have opportunities to obtain hands-on experience in managing health information.

**General Emphasis:** This emphasis will provide you with a strong foundation in the field of health and wellness and enable you to explore career options along the way. With plenty of elective credits, you can tailor the degree to match your interests or take prerequisites for professional programs (such as physician assistant and pharmacy school). Dive into the field of health and learn about human anatomy, medical terminology, healthcare delivery systems, nutrition, disease, and health-related ethics.

**Science Emphasis:** If you are interested in working in healthcare or becoming a healthcare provider this emphasis was designed with you in mind. This emphasis enables you to check off a list of common prerequisite courses for professional programs while gaining a broad perspective on the field of health and a strong foundation in health sciences.

### Bachelor of Science in Public Health

This degree will prepare you for a career that advances the health of communities. Learn how to develop and mobilize partnerships, promote environmental health, and take action to address complex public health challenges. Choose from three emphasis areas: Environmental and Occupational Health and Safety (EOHS), General, and Health Education and Promotion (HEP).

**Environmental and Occupational Health and Safety Emphasis:** This field within public health focuses on the factors in the natural and built environment that influence health. This encompasses everything from food, drinking and surface water, and air quality to chemical exposures, workplace safety, and more. This is a science-driven degree, ideal if you want your classes to include labs and fieldwork. A required internship builds additional experiential learning into this degree.

**General Emphasis:** Public health is the science of protecting and improving the health of individuals and communities. With a focus on social justice and community-level impact, this emphasis enables you to explore the best practices for working collaboratively and strategically to improve public health.

**Health Education and Promotion Emphasis:** The goal of health education is to promote, maintain, and improve individual and community health. If you are drawn to teaching, advocacy, or leadership, and want a career focused on social change, this emphasis is for you. You will explore the factors that influence health, and learn how to work collaboratively on public health issues. You will also learn how to create effective health promotion programs through a field-based internship.

### Online Bachelor of Arts in Public Health

Build your knowledge of public health to promote positive social change in this online degree completion program. You will learn how to work collaboratively and strategically to improve the health of communities. With the option to go part-time or full time, you can complete the program at a pace that's right for you.

### Certificates and Minors

Community and Environmental Health also offers a variety of certificates and minors that students can pair with any major from any department. These certificates have no prerequisites nor admission requirements and provide supplemental coursework to enhance your professional options. Transfer credits or comparable substitutes for lower-division courses may be submitted for consideration by your advisor. Please note the Public Health certificate coursework is delivered exclusively online. See your advisor for more information.

### Degree Requirements

| Health Studies<br>Bachelor of Science   |         |
|---|---------|
| Course Number and Title   | Credits |
| University Foundations requirements indicated in bold. See page 48 for details and lists of approved courses.           |         |
| <b>UF 100</b> Foundations of Intellectual Life  | 3       |
| <b>UF 200</b> Foundations of Ethics and Diversity   | 3       |
| <b>FW ENGL 101</b> Writing and Rhetoric I   | 3       |
| <b>FW ENGL 102</b> Writing and Rhetoric II  | 3       |
| <b>FC</b> Foundations of Oral Communication   | 3       |
| <b>FM MATH 153</b> Statistical Reasoning or<br><b>FM MATH 254</b> Introduction to Statistics                            | 3       |
| <b>FN BIOL 191</b> Biology I: Intro to Cell & Molecular Biology or<br><b>FN BIOL 227</b> Human Anatomy and Physiology I | 4       |
| <b>FA</b> Foundations of Arts course  | 3       |
| <b>FH</b> Foundations of Humanities course  | 3-4     |
| <b>FS HLTH 110</b> Intro to Health Science & Public Health  | 3       |
| <b>FS</b> Foundations of Social Sciences course in a second field   | 3       |
| <b>BIOL 192</b> Biology II: Introduction to the Diversity of Life or<br><b>BIOL 228</b> Human Anatomy and Physiology II | 4       |

## COMMUNITY AND ENVIRONMENTAL HEALTH

|  |            |
|--|------------|
| HLTH 101 Medical Terminology   | 3          |
| HLTH 105 Health Advocacy and Me  | 3          |
| HLTH 210 Health Services Administration  | 3          |
| HLTH 300 Pathophysiology<br>HLTH 355 Human Health and Disease  | 3-4        |
| HLTH 315 Health Policy and Ethics  | 3          |
| HLTH 382 Research Methods in Health  | 3          |
| <b>FF</b> HLTH 400 Interprofessional Capstone  | 1          |
| HLTH 480 Epidemiology  | 3          |
| HLTH 488 Student Outcomes Assessment   | 0          |
| Two (2) of the following<br>EOHS 230 Introduction to Environmental Health<br>HEP 240 Foundations of Health Education & Promotion<br>HIIM 215 Introduction to Health Informatics  | 6          |
| Complete the coursework under one of the following emphasis areas to graduate with a BS in Health Studies.   |            |
| <b>General Emphasis</b>  |            |
| <b>FN</b> CHEM 101, 101L Introduction to Chemistry & Lab or<br><b>FN</b> CHEM 111, 111L General Chemistry I with Lab   | 4          |
| HLTH 207 Nutrition   | 3          |
| Four (4) upper-division HLTH courses   | 12         |
| Upper-division electives to total 40 credits   | 14-15      |
| Electives to total 120 credits   | 21-24      |
| <b>Total</b>   | <b>120</b> |
| <b>Health Informatics and Information Management Emphasis</b>  |            |
| <b>FN</b> Foundations of Natural, Physical, & Applied Sciences course in a second field  | 3-4        |
| BUSCOM 201 Global Business Communication or<br>ENGL 212 Technical Communication  | 3          |
| HIIM 320 Health Data Management  | 3          |
| HIIM 321 Managing Health Data Systems  | 3          |
| HIIM 322 Revenue Cycle Management  | 3          |
| HIIM 424 Healthcare Information Systems  | 3          |
| HLTH 365 Quality Improvement & Performance Management  | 3          |
| HLTH 418 Advanced Public Health Analysis   | 3          |
| HLTH 420 Strategic Planning and Project Management   | 3          |
| HLTH 470 Collaborating for Change  | 3          |
| ITM 105 Spreadsheet Topics   | 2          |
| ITM 106 Database Topics  | 1          |
| Three (3) of the following:<br>BUSBTC 301 Business Foundations I<br>BUSBTC 302 Business Foundations II<br>HLTH 360 Health Care Finance<br>HLTH 493 Internship<br>ITM 310 Business Intelligence<br>ITM 315 Database Systems | 9          |
| Electives to total 120 credits   | 12-13      |
| <b>Total</b>   | <b>120</b> |
| <b>Science Emphasis</b>  |            |
| <b>FN</b> CHEM 111, 111L General Chemistry I with Lab  | 64         |
| CHEM 112, 112L General Chemistry II & lab  | 4          |
| HLTH 207 Nutrition   | 3          |
| MATH 143 College Algebra or<br>MATH 160 Survey of Calculus or<br>MATH 170 Calculus I   | 3-4        |

|  |            |
|--|------------|
| Three (3) upper-division courses chosen from the following disciplines: EOHS, HEP, HIIM, and/or HLTH   | 9          |
| Four (4) upper-division courses chosen from the following disciplines: biology (BIOL), chemistry (CHEM), physics (PHYS), psychology (PSYC), or zoology (ZOO) | 12-18      |
| Upper-division electives to total 40 credits   | 0-6        |
| Electives to total 120 credits   | 13-16      |
| <b>Total</b>   | <b>120</b> |

| Public Health Bachelor of Science   |         |
|---|---------|
| Course Number and Title   | Credits |
| University Foundations requirements indicated in bold. See page 48 for details and lists of approved courses.   |         |
| <b>UF</b> 100 Foundations of Intellectual Life  | 3       |
| <b>UF</b> 200 Foundations of Ethics and Diversity   | 3       |
| <b>FW</b> ENGL 101 Writing and Rhetoric I   | 3       |
| <b>FW</b> ENGL 102 Writing and Rhetoric II  | 3       |
| <b>FC</b> Foundations of Oral Communication   | 3       |
| <b>FM</b> MATH 153 Statistical Reasoning or<br><b>FM</b> MATH 254 Introduction to Statistics  | 3       |
| <b>FN</b> BIOL 191 Biology I: Intro to Cell & Molecular Biology or<br><b>FN</b> BIOL 227 Human Anatomy and Physiology I   | 4       |
| <b>FN</b> CHEM 101, 101L Introduction to Chemistry I & Lab or<br><b>FN</b> CHEM 111, 111L General Chemistry I with Lab<br>(Environmental and Occupational Health and Safety Emphasis) | 4       |
| <b>FA</b> Foundations of Arts course  | 3       |
| <b>FH</b> Foundations of Humanities course  | 3-4     |
| BIOL 192 Biology II: Introduction to the Diversity of Life or<br>BIOL 228 Human Anatomy and Physiology II   | 4       |
| EOHS 230 Introduction to Environmental Health   | 3       |
| HEP 240 Foundations of Health Education & Promotion   | 3       |
| HLTH 105 Health Advocacy and Me   | 3       |
| HLTH 210 Health Services Administration   | 3       |
| HLTH 310 Evidence-Based Public Health   | 3       |
| HLTH 315 Health Policy and Ethics   | 3       |
| HLTH 382 Research Methods in Health   | 3       |
| <b>FF</b> HLTH 400 Interprofessional Capstone   | 1       |
| HLTH 480 Epidemiology   | 3       |
| HLTH 488 Student Outcomes Assessment  | 0       |
| In addition, complete the courses listed under one of the emphases below to graduate with a BS in Public Health with an emphasis.   |         |
| <b>Environmental and Occupational Health and Safety Emphasis</b>  |         |
| <b>FS</b> HLTH 110 Intro to Health Science & Public Health  | 3       |
| <b>FS</b> Foundations of Social Sciences course in a second field   | 3       |
| BIOL 205 Introductory Microbiology  | 4       |
| CHEM 112, 112L General Chemistry II & lab   | 4       |
| CHEM 307, 308 Organic Chemistry I and Lab   | 5       |
| EOHS 332 Drinking Water and Wastewater Management   | 3       |
| EOHS 334 Environmental Health Management  | 3       |
| EOHS 336 Solid/Hazardous Waste Management & Emergency Preparedness  | 3       |
| EOHS 338 Occupational Safety and Health   | 3       |
| EOHS 435 Toxicology for Environmental & Occupational Health   | 3       |

|   |       |
|---|-------|
| EOHS 437 Indoor/Outdoor Air Monitoring & Management   | 3     |
| EOHS 438 Safety Strategies for Controlling Physical Hazards   | 3     |
| EOHS 493 Environ & Occupational Health Internship   | 4     |
| EOHS 498 Environ & Occupational Health Seminar  | 2     |
| MATH 143 College Algebra  | 3     |
| MATH 144 Precalculus II: Trigonometric Functions  | 2     |
| PHYS 111 General Physics I  | 4     |
| Electives to total 120 credits  | 6-7   |
| Total   | 120   |
| Environmental and Occupational Health and Safety Emphasis students must earn at least a grade of C- in their required professional courses. The professional courses are: ENGL 212 and all EOHS and HLTH courses. |       |
| <b>General Emphasis</b>   |       |
| FS HLTH 110 Intro to Health Science & Public Health   | 3     |
| FS Foundations of Social Sciences course in a second field  | 3     |
| BUSBTC 301 Business Foundations I   | 3     |
| BUSBTC 302 Business Foundations II  | 3     |
| HLTH 365 Quality Improvement & Performance Management   | 3     |
| HLTH 418 Advanced Public Health Analysis  | 3     |
| HLTH 419 Public Health Communications   | 3     |
| HLTH 420 Strategic Planning and Project Management  | 3     |
| HLTH 470 Collaborating for Change   | 3     |
| Select 12-18 credits from a certificate or minor from approved list. Meet with your advisor to declare.   | 12-18 |
| Upper-division electives to total 40 credits  | 0-6   |
| Electives to total 120 credits  | 16-23 |
| Total   | 120   |
| <b>Health Education and Promotion Emphasis</b>  |       |
| FS HLTH 110 Intro to Health Science & Public Health   | 3     |
| FS PSYC 101 Introduction to Psychology  | 3     |
| ADST 448 Motivational Interviewing  | 3     |
| BUSBTC 301 Business Foundations I   | 3     |
| BUSBTC 302 Business Foundations II  | 3     |
| ENGL 212 Technical Communication  | 3     |
| HEP 342 Health Education & Promotion Methods  | 3     |
| HEP 344 Health Behavior Theory and Practice   | 3     |
| HEP 345 Grant Writing I—Finding the Money   | 3     |
| HEP 346 Grant Writing II—Writing the Proposal   | 3     |
| HEP 440 Health Education & Promotion Programming  | 3     |
| HEP 493 Internship or HEP 493U WorkU  | 6     |
| HLTH 207 Nutrition  | 3     |
| HLTH 419 Public Health Communications   | 3     |
| HLTH 420 Strategic Planning and Project Management  | 3     |
| HLTH 470 Collaborating for Change   | 3     |
| Electives to total 120 credits  | 7-8   |
| Total   | 120   |

| Gerontology Minor  |                |
|--|----------------|
| <i>Course Number and Title</i>   | <i>Credits</i> |
| BIOL 100* Concepts of Biology or<br>BIOL 107* Introduction to Human Biology or<br>BIOL 227*-228* Human Anatomy and Physiology I & II | 4-8            |
| HLTH 410 Health and Aging  | 3              |
| PSYC 101* Introduction to Psychology   | 3              |
| SOC 101* Introduction to Sociology   | 3              |
| SOC 472 Sociology of Aging or<br>SOC 481 Sociology of Gender and Aging   | 3              |
| SOCWRK 433 Aging: Social Policy and Programs   | 3              |
| Gerontology elective credits:<br>Electives to be approved by ISA committee   | 6              |
| Total  | 25-29          |

\*These lower-division required courses meet foundational studies requirements.

| Health Data Management Certificate      |                |
|---|----------------|
| <i>Course Number and Title</i>          | <i>Credits</i> |
| HIIM 320 Health Data Management         | 3              |
| HIIM 322 Revenue Cycle Management       | 3              |
| HLTH 101 Medical Terminology            | 3              |
| HLTH 210 Health Services Administration | 3              |
| ITM 105 Spreadsheet Topics              | 2              |
| ITM 106 Database Topics                 | 1              |
| Total                                   | 15             |

The certificate will be awarded following completion of an associate or baccalaureate degree.

| Health Data Management Minor            |                |
|---|----------------|
| <i>Course Number and Title</i>          | <i>Credits</i> |
| HIIM 320 Health Data Management         | 3              |
| HIIM 321 Managing Health Data Systems   | 3              |
| HIIM 322 Revenue Cycle Management       | 3              |
| HIIM 424 Healthcare Information Systems | 3              |
| HLTH 101 Medical Terminology            | 3              |
| HLTH 210 Health Services Administration | 3              |
| ITM 105 Spreadsheet Topics              | 2              |
| ITM 106 Database Topics                 | 1              |
| Total                                   | 21             |

| Principles of Grant Development and Proposal Writing Certificate |                |
|--|----------------|
| <i>Course Number and Title</i>                                   | <i>Credits</i> |
| ENGL 212 Technical Communication                                 | 3              |
| HEP 345 Grant Writing I—Finding the Money                        | 3              |
| HEP 346 Grant Writing II—Writing the Proposal                    | 3              |
| HLTH 420 Strategic Planning and Project Management               | 3              |
| Total  | 12             |

### Admission Requirements

Admission to program requires acceptance to Boise State University with a minimum of 60 semester credits earned from a regionally accredited academic institution with a cumulative 2.25 GPA or higher or have earned an associate of arts or associate of science or are core certified from a regionally accredited academic institution with a cumulative 2.00 GPA or higher. Applicants who do not meet the program admission requirements, will be considered for pre-program admission after being accepted.

| Public Health (Online) Bachelor of Arts  |            |
|--|------------|
| Course Number and Title  | Credits    |
| University Foundations requirements indicated in bold. See page 48 for details and lists of approved courses.  |            |
| <b>UF 100</b> Foundations of Intellectual Life   | 3          |
| <b>UF 200</b> Foundations of Ethics and Diversity  | 3          |
| <b>FW ENGL 101</b> Writing and Rhetoric I  | 3          |
| <b>FW ENGL 102</b> Writing and Rhetoric II   | 3          |
| <b>FC</b> Foundations of Oral Communication  | 3          |
| <b>FM</b> Foundations of Mathematics course  | 3-4        |
| <b>FN</b> Foundations of Natural, Physical, & Applied Sciences course with lab   | 4          |
| <b>FN</b> Foundations of Natural, Physical, & Applied Sciences course in a second field  | 3-4        |
| <b>FA</b> Foundations of Arts course   | 3          |
| <b>FH</b> Foundations of Humanities course   | 3-4        |
| <b>FS</b> Foundations of Social Sciences course  | 3          |
| <b>FS</b> Foundations of Social Sciences course in a second field  | 3          |
| <b>FF HLTH 400</b> Interprofessional Capstone  | 1          |
| PUBH 210 Health Services Administration  | 3          |
| PUBH 230 Introduction to Environmental Health  | 3          |
| PUBH 240 Foundations of Health Education & Promotion   | 3          |
| PUBH 303 Foundations of Public Health  | 3          |
| PUBH 310 Evidence-based Public Health  | 3          |
| PUBH 315 Health Policy and Ethics  | 3          |
| PUBH 318 Public Health Analysis  | 3          |
| PUBH 382 Research Methods in Health  | 3          |
| PUBH 418 Advanced Public Health Analysis   | 3          |
| PUBH 455 Public Health Project   | 2          |
| PUBH 480 Epidemiology  | 3          |
| PUBH 488 Student Outcomes Assessment   | 0          |
| One (1) to seven (7) courses chosen from the following:  |            |
| Public Health Track<br>PUBH 355 Human Health and Disease<br>PUBH 365 Quality Improvement & Performance Management<br>PUBH 419 Public Health Communications<br>PUBH 420 Strategic Planning and Project Management<br>PUBH 460 Determinants of Health<br>PUBH 470 Collaborating for Change | 3-21       |
| Health Education and Promotion Track<br>PUBH 342 Health Education Promotion Methods<br>PUBH 344 Health Behavior Theory and Practice<br>PUBH 440 Health Education and Promotion Programming   |            |
| Electives to total 120 credits   | 26-47      |
| <b>Total</b>   | <b>120</b> |

| Public Health (Online) Certificate   |           |
|--|-----------|
| Course Number and Title  | Credits   |
| PUBH 303 Foundations of Public Health  | 3         |
| PUBH 310 Evidence-based Public Health  | 3         |
| PUBH 382 Research Methods in Health  | 3         |
| Two (2) courses chosen from the following:<br>PUBH 315 Health Policy and Ethics<br>PUBH 355 Human Health and Disease<br>PUBH 365 Quality Improvement & Performance Management<br>PUBH 418 Advanced Public Health Analysis<br>PUBH 419 Public Health Communications<br>PUBH 420 Strategic Planning and Project Management<br>PUBH 460 Determinants of Health<br>PUBH 470 Collaborating for Change | 6         |
| <b>Total</b>   | <b>15</b> |
| The certificate will be awarded following completion of an associate or baccalaureate degree.  |           |

### Pre-Health Pathways

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 erincolburn@boisestate.edu (email)

At Boise State University, the Pre-Health Pathways offers specialized advising, mentoring, and academic planning services to help you:

- Identify the pre-health track that best fits your talents and interests
- Choose the right academic major
- Complete the prerequisite courses you need for professional school
- Get extracurricular experience in clinical, laboratory, and research settings
- Graduate on time.

Pre-Health Pathways are designed for students who intend to apply to a professional school after graduating. Pre-Health Pathways are not degree programs. While you still need to declare a major, Pathways helps students identify opportunities and coursework to make them more competitive for professional school after graduating.

Successful preparation for a professional program depends upon timely academic advising, an effective strategy for choosing appropriate courses, and experiential learning activities. You must also adhere to the specific prerequisite requirements of the professional school you wish to attend. Not all professional programs require a baccalaureate degree; however, having earned a baccalaureate degree typically makes candidates more competitive. Most professional schools provide flexibility in the undergraduate academic majors that you may pursue; for this reason, you are encouraged to select a degree in an area of interest. Although there is no preferred or right undergraduate major, common majors for Pre-Health Pathways students include biology, chemistry, health studies, kinesiology, and public health.

You may also major in non-science areas, such as English or Spanish. You must work closely with your Pre-Health Pathways advisor and major advisor to successfully and efficiently meet both the academic requirements of the major you select as well as the professional school requirements.

Admission into most professional programs is highly competitive. Typical factors for admission include:

- Entrance exam scores
- Cumulative undergraduate GPA
- Science and math GPA
- Work-related or volunteer experience in your desired field

Talk to your advisor about determining if your GPA is competitive for your program of interest. In addition to strength in the natural sciences, professional schools look for candidates who demonstrate skills in critical thinking and

effective communication, with exposure to social and political issues, including an awareness of the global community.

Below are recommended plans for a variety of Pre-Health Pathways. These Pathways are not majors and do not fulfill the requirements for a baccalaureate degree at Boise State, but may be used for advising and tracking purposes. The courses listed in the plans are recommendations that are not required for degree completion unless also listed under your chosen major. While prerequisites vary by program and school, the following recommendations are based on the most common requirements of the professional schools and/or association for each field. These plans are intended for students who plan to graduate with a baccalaureate degree before pursuing a postgraduate degree. Because the requirements for professional schools vary, the courses listed in the plans are intended only as a guideline. You are strongly encouraged to review the requirements for your school(s) of choice.

Be sure to track deadlines established by professional schools of interest and testing organizations. Admissions examinations (listed with the specific programs below) must be taken at specific times. Deadlines for applying to professional schools vary yearly from school to school. You are responsible for determining the specific deadlines and fees which pertain to your field of interest.

Many programs will expect you to have some knowledge of the field from direct observations through volunteering, job shadowing and other professional experiences. Pre-Health Pathways advisors will assist you in finding opportunities to work in a clinical environment and observe the practice and delivery of healthcare through arranged internships. If you qualify, you may register for an internship where you work and study in a clinical environment with a practicing physician, dentist, veterinarian, etc.

To register for an internship, you must have the following:

- Upper-division standing
- A cumulative GPA above 3.25
- Approval of the advisor
- Consent of the instructor

See the course description for the HLTH 493 Internship. If you are participating in clinical internships you may need to submit to a criminal background check at your own expense. Information from the background check deemed to be detrimental to the care of patients will result in dismissal from the program. Please see the College of Health Sciences policies to obtain more information about this policy.

### Pre-Chiropractic Pathway

Most chiropractic schools require coursework in biology, chemistry, physics, social sciences and humanities. This may include BIOL 227-228, CHEM 111-112, CHEM 307-310, CHEM 350, MATH 143-144, PHYS 111-112, and/or PSYC 101. Additional beneficial courses may include BIOL 205, BUS 101, COMM 101, HLTH 101, HLTH 202, HLTH 207, and ZOOL 301. Admission is based on academic performance and character. For more information, visit <http://www.chirocolleges.org/>.

### Pre-Dentistry Pathway

Most dental schools require coursework in biology, chemistry, organic chemistry, physics, and math. This typically includes BIOL 191-192, CHEM 111-112, CHEM 307-310, MATH 143-144, and PHYS 111-112. Some schools also require biochemistry, genetics, physiology, and statistics, along with English, humanities, and social science courses. This may include BIOL 310, CHEM 350, and/or MATH 254. Additional beneficial courses may include BIOL 205, BIOL 227-228, BIOL 320, MATH 160 or 170, PSYC 101, and ZOOL 401. Admission to dental school is based on academic performance, character and scores on the Dental Admission Test (DAT). Students should consult the Admission Requirements of U.S. and Canadian Dental Schools handbook for requirements specific to their professional schools of interest. For additional information, visit <http://www.adea.org/>. Information is available from advisors concerning the Idaho Dental Education Program (IDEP), a state-supported tuition program for qualified Idaho residents to professional schools outside the state of Idaho.

### Pre-Medical Studies Pathway

Most medical schools require coursework in biology, chemistry, organic chemistry, physics, and math. This typically includes BIOL 191-192, CHEM 111-112, CHEM 307-310, MATH 143-144, and PHYS 111-112. Some schools also require cell biology, biochemistry, and genetics, along with English, humanities, and social science courses. This may include BIOL 310, BIOL 320, and CHEM 350. Additional beneficial courses may include BIOL 205, BIOL 227-228, MATH 160 or 170, MATH 254, PSYC 101, and ZOOL 401.

Admission to medical school is based on academic performance, character, and scores on the Medical College Admission Test (MCAT). You should consult the Medical School Admission Requirements handbook for requirements specific to their professional schools of interest. For additional information, visit <https://www.aamc.org>. Information is available from advisors concerning state-supported tuition programs for qualified Idaho residents to professional schools outside the state of Idaho, including the University of Washington and the University of Utah.

### Pre-Occupational Therapy Pathway

Occupational therapy schools differ considerably in their prerequisite requirements. You should typically plan for coursework in biology and psychology. This may include BIOL 227-228, PSYC 101, PSYC 301, and PSYC 309/310. Additional beneficial or required coursework may include BIOL 191-192, CHEM 111, COMM 101, HLTH 101, MATH 143-144, PHYS 111, SOC 101, and statistics. If you are interested in this career, consult with an advisor to determine which of the several schools would be your choice, and pattern the pre-health curriculum in line with the requirements of the desired schools. Most schools of occupational therapy require the Graduate Record Exam (GRE) for admission. For more information, visit <https://www.aota.org/>.

### Pre-Optometry Pathway

If you are interested in preparing for optometry training you should take science courses and laboratories designed for science majors. Brief survey courses in the sciences will not prepare you for the schools and colleges of optometry. The requirements for admission to the schools and colleges of optometry vary but typically include biology, chemistry, math, and physics. This may include BIOL 191-192, BIOL 205, BIOL 227-228, CHEM 111-112, CHEM 307-310, MATH 143-144, MATH 160 or 170, and/or PHYS 111-112. Additional beneficial courses may include CHEM 350, PSYC 101, and statistics. You should check the optometry schools of your choice for a list of specific course prerequisites. Most schools of optometry require the Optometry Admission Test (OAT). For more information, visit <https://optometriceducation.org>.

### Pre-Pharmacy Pathway

Recommended Pre-Pharmacy curriculum typically includes coursework in biological and physical sciences, social sciences, economics, mathematics, English and communications. This may include BIOL 227-228, BIOL 205, CHEM 111-112, CHEM 307-310, CHEM 350, MATH 143-144, MATH 160 or 170, PHYS 111, and/or statistics. Additional beneficial or required courses may include BIOL 191-192, CHEM 433, COMM 101, ECON 201 or 202, HLTH 101, and PHYS 112. The Pharmacy College Admissions Test (PCAT) is required at some pharmacy schools. For more information, visit <http://www.aacp.org/> and <http://www.pharmcas.org/>.

### Pre-Physical Therapy Pathway

Physical therapy schools can differ significantly in their requirements, but typically include biology, chemistry, physics, and psychology. This may include BIOL 227-228, CHEM 111-112, MATH 143-144, PHYS 111-112, PSYC 101, and PSYC 301 or PSYC 309. Additional beneficial or required courses may include BIOL 191-192, COMM 101, HLTH 101, KINES 330-331, SOC 101, and statistics. If you are interested in applying to a physical therapy program, you should consult with an advisor, determine physical therapy programs of interest, and pattern your specific pre-health curriculum in line with these schools. Most schools of physical therapy require the Graduate Record Exam (GRE). For more information, visit <http://www.apta.org/> or <http://www.ptcas.org/home.aspx>.

## COMMUNITY AND ENVIRONMENTAL HEALTH

### Pre-Physician Assistant Pathway

Prerequisite course requirements vary from school to school, but typically include biology, chemistry, and psychology. This may include BIOL 227-228, CHEM 111-112, MATH 143, and PSYC 301. Additional beneficial courses may include BIOL 191-192, BIOL 205, BIOL 310, BIOL 320, HLTH 101, CHEM 301 and 308, CHEM 350, PSYC 309 or PSYC 310, and/or statistics. You are encouraged to consult with your advisor, determine which physician assistant programs are of interest, and pattern your coursework to fulfill these specific program requirements. For more information, visit <https://www.aapa.org> or <https://caspa.liasoncas.com/applicant-ux/#/login>.

### Pre-Veterinary Medicine Pathway

Most schools of veterinary medicine require coursework in biology, chemistry, organic chemistry, physics and math. This may include BIOL 191-192, CHEM 111-112, CHEM 307-310, MATH 143-144, and PHYS 111-112. Some schools also require biochemistry, genetics, physiology, embryology and statistics. These additional recommendations include BIOL 310, CHEM 350, MATH 254, and ZOOL 409. Most schools of veterinary medicine require the Graduate Record Exam (GRE) for admission and you can apply through the Veterinary Medicine College Application Service (VMCAS). Veterinary medicine is an animal-oriented profession; therefore, your experience in working with animals and an understanding of the veterinary profession is viewed by professional schools' admissions committees as important considerations in the selection process. For additional information, visit <http://www.aavmc.org/>.

The states of Idaho, Montana, Washington and Utah have an agreement under which a number of seats in the Washington State University (WSU) School of Veterinary Medicine are guaranteed each year to qualified Idaho residents. As an Idaho resident planning on veterinary medicine as a career, you should satisfy the entrance requirements for the WSU School of Veterinary Medicine. You should seek regular counseling from the pre-veterinary medicine advisor. Entry into veterinary school is extremely competitive with current GPAs of entering veterinary students at 3.5 and above on average. Candidates with the greater depth and breadth of academic background are given preference by WSU.

### Other Areas of Interest

If you are interested in dental hygiene, dietetics, medical laboratory science, and speech-language pathology, you may find more suitable programs at other Idaho institutions. However a Pre-Health Pathways adviser can still assist in finding an appropriate degree program at Boise State to prepare you for graduate school.

## Course Offerings

### EOHS—Environmental and Occupational Health and Safety

#### Lower Division

**EOHS 160 ENVIRONMENTAL HEALTH PRACTICUM (0-V-1)(F/S).** Field observations in public health agencies and industry. Requires a minimum 20 hours in the field and periodic seminars with a university instructor. (Pass/Fail.)

**EOHS 230 INTRODUCTION TO ENVIRONMENTAL HEALTH (3-0-3)(F,S,SU).** Evaluates the impact that chemical, physical, and biological agents have on the public's health and the environment. Examines how worldwide political, economic, and demographic diversity affects the public's health and the natural environment. PRE/COREQ: HLTH 110 or PREREQ: ENVSTD 121 or PERM/INST.

#### Upper Division

**EOHS 332 DRINKING WATER AND WASTEWATER MANAGEMENT (2-2-3)(F).** Engineering, biological, and management principles of recreational water systems, public drinking water supply under the Federal Safe Drinking Water Act and water pollution control under the Federal Clean Water Act. PREREQ: Upper-division standing, BIOL 227 or BIOL 191, or PERM/INST.

**EOHS 334 ENVIRONMENTAL HEALTH MANAGEMENT (2-3-3)(S).** Sanitation and management practices for community problems dealing with solid waste disposal, individual sewage disposal, vector control, food and milk

protection, zoonotic diseases, pests of public health importance and control of pests, and housing. PREREQ: BIOL 227 or BIOL 191, or PERM/INST.

**EOHS 336 SOLID/HAZARDOUS WASTE MANAGEMENT AND EMERGENCY PREPAREDNESS (3-0-3)(F).** Historical, regulatory and technical aspects of solid and hazardous waste management, relating primarily to the requirements of the Resource Conservation and Recovery Act and the Comprehensive Environmental Reclamation, Compensation, and Liability Act, and Emergency Response. PREREQ: BIOL 227 or BIOL 191, CHEM 111, upper-division standing, or PERM/INST.

**EOHS 338 OCCUPATIONAL SAFETY AND HEALTH (3-0-3)(S).** Recognition, evaluation, and control of occupational safety and health hazards (chemical, physical, biological) that may cause injury and/or illness or cause significant discomfort to employees or residents of the community. PREREQ: BIOL 191 or BIOL 227, and MATH 143.

**EOHS 435 TOXICOLOGY FOR ENVIRONMENTAL AND OCCUPATIONAL HEALTH (3-0-3)(F).** An examination of the absorption, distribution, and excretion of toxicants in humans and the health effects on target organs. Toxicologic evaluation, risk assessment, and fate of hazardous substances in the environment. PREREQ: BIOL 227-228 and CHEM 111.

**EOHS 437 INDOOR/OUTDOOR AIR MONITORING AND MANAGEMENT (2-3-3)(F).** Evaluation, engineering controls, and management principles of air quality in occupational settings and in the community. PREREQ: CHEM 111-112.

**EOHS 438 SAFETY STRATEGIES FOR CONTROLLING PHYSICAL HAZARDS (3-0-3)(S).** Monitoring and control strategies for noise, thermal stress, ionizing and non-ionizing radiation, and ergonomic hazards. PREREQ: PHYS 111 and CHEM 111.

**EOHS 493 ENVIRONMENTAL AND OCCUPATIONAL HEALTH AND SAFETY INTERNSHIP (0-V-V)(4)(F).** Three or more hours of internship per week in a business or governmental agency for a total of a minimum of 180 clock hours. The student works within the organization, keeps a record of the experience, and writes a paper related to the experience. May be repeated for credit. PREREQ: Senior standing in EOHS and PERM/INST.

**EOHS 498 ENVIRONMENTAL AND OCCUPATIONAL HEALTH AND SAFETY SEMINAR (2-0-2)(F).** Current research and applied studies on emerging environmental and occupational health topics. Résumé drafting, interviewing techniques and job searching. PREREQ: Senior standing in EOHS.

### HEP—Health Education and Promotion

#### Lower Division

**HEP 240 FOUNDATIONS OF HEALTH EDUCATION AND PROMOTION (3-0-3)(F,S,SU).** Fundamental concepts, theories and direction of health education and promotion fields. Exploration of career opportunities and future trends in health promotion. PRE/COREQ: HLTH 110 and PREREQ: ENGL 101.

**HEP 293 INTERNSHIP IN HEALTH EDUCATION AND PROMOTION (1-6 credits)(F/S).** Opportunity to gain knowledge and practical field experience in the field of Health Education and Promotion (HEP). Students will adhere to all HEP internship policies. Lower-division internships will count as elective credits. PREREQ: PERM/INST.

#### Upper Division

**HEP 342 HEALTH EDUCATION AND PROMOTION METHODS (3-0-3)(S).** Examines effective methods for assessing and planning health promotion programs. Topics include developing objectives, selecting interventions and presenting health programs. PREREQ: HEP 240.

**HEP 344 HEALTH BEHAVIOR THEORY AND PRACTICE (3-0-3)(F).** Evidence-based health interventions have a sound theoretical basis. Learn about the social and environmental influences that impact the initiation, maintenance, and change of health behaviors. Learn how to apply these principles when creating interventions focused on improving health and preventing disease. PREREQ: HEP 240.

**HEP 345 GRANT WRITING I—FINDING THE MONEY (3-0-3)(F).**

Identifying and cultivating organizations whose mission matches with your program goals is the first step in the grant writing process. Learn the steps in the donor development cycle and know how to follow them to improve the chance of securing grant funding for your programs. PREREQ: ENGL 212 or HLTH 382 or PERM/INST.

**HEP 346 GRANT WRITING II—WRITING THE PROPOSAL (3-0-3)(S).**

Nonprofits and government agencies use grant funding to support and expand programs. Learn the essential components of a successful grant proposal and how to develop a compelling case for funding. PREREQ: HEP 345 or PERM/INST.

**HEP 440 HEALTH EDUCATION AND PROMOTION PROGRAMMING (3-0-3)(F).**

Utilizes the principles of health education and promotion programming and development to plan, implement, and evaluate a community-focused health program. PREREQ: HEP 240, HEP 342 and upper-division standing in Public Health.

**HEP 493 INTERNSHIP IN HEALTH EDUCATION AND PROMOTION (1-6 credits)(F/S).**

Practical field experience in Health Education and Promotion. Opportunity to apply knowledge and theory learned in classroom to the practical setting. Students will adhere to all HEP internship policies. May be repeated for credit. PREREQ: HEP 342 and PERM/INST.

**HIIM—Health Informatics and Information Management****Lower Division**

**HIIM 215 INTRODUCTION TO HEALTH INFORMATICS (3-0-3)(F, S, SU).** Provides an introduction to health information systems and healthcare technology with discussion of current applications and trends in healthcare.

**Upper Division**

**HIIM 320 HEALTH DATA MANAGEMENT (3-3-3)(F).** Principles for the management of health data and considerations to achieve data integrity. Focus on health data acquisition and storage, management tools, standards and quality, extraction and reporting, and interpretation and presentation. PREREQ: Upper division standing.

**HIIM 321 MANAGING HEALTH DATA SYSTEMS (3-3-3)(S).** Strategies for the use and exchange of health data and information. Focus on privacy and security management practices and safeguards, risk analysis, interoperability, and national initiatives in health information technology and systems. PREREQ: HIIM 320.

**HIIM 322 REVENUE CYCLE MANAGEMENT (3-0-3)(F).** Examines the use of health data in the revenue cycle, including relevant classification systems and terminologies, reimbursement models, compliance strategies, and measurement techniques. PREREQ: Upper division standing.

**HIIM 424 HEALTH CARE INFORMATION SYSTEMS (3-0-3)(F).** Information systems and applications in health care organizations; issues and challenges in system design and implementation; systems security. PRE/COREQ: HIIM 321.

**HLTH—Health****Lower Division**

**HLTH 101 MEDICAL TERMINOLOGY (3-0-3)(F, S, SU).** Introduction to Greek and Latin prefixes, suffixes, combining forms and roots used in medical terminology, as well as the study of anatomical, physiological, and pathological terms, clinical procedures, abbreviations, and lab tests according to systems of the body. Medical terminology is treated as a medical language and clinical application is stressed.

**HLTH 105 HEALTH ADVOCACY AND ME (3-0-3)(F, S, SU).** This course emphasizes the underlying social, economic, and political factors or root causes that influence health and disease outcomes; discusses how these factors affect populations differently; and shows how to use public health advocacy strategies in the community.

**HLTH 110 INTRODUCTION TO HEALTH SCIENCE AND PUBLIC HEALTH (3-0-3)(F, S, SU)(FS).** This course offers an introduction to the art and

science of public health and health sciences. The course describes the public health and healthcare systems in the United States, identifies disciplines of public health and health science, and explores the interrelationship between environmental factors, human behavior, and health policy in determining health outcomes.

**HLTH 150 (KINES 150) RESIDENTIAL COLLEGE: HEALTH**

**PROFESSIONS (1-0-1)(F).** Required course for students residing in the University Housing Health Professions Residential College. Students learn about the campus and community resources, explore various health-related professions, are civically engaged, and participate in service projects. May be repeated for credit. PREREQ: PERM/INST.

**HLTH 207 NUTRITION (3-0-3)(F, S, SU).** Study of fundamentals of nutrition as a factor in maintaining good health. Present day problems in nutrition are also discussed. PREREQ: BIOL 100 or BIOL 107 or BIOL 191 or BIOL 227, and PRE/COREQ: CHEM 101-101L or CHEM 111-111L.

**HLTH 210 HEALTH SERVICES ADMINISTRATION (3-0-3)(F, S, SU).** Overview of the health care industry and the issues that confront this dynamic system, including the changing roles of components of the system as well as technical, economic, political and social forces responsible for those changes. PREREQ: ENGL 102.

**HLTH 250 (KINES 250) RESIDENTIAL COLLEGE: HEALTH**

**PROFESSIONS (1-0-1)(S).** Required course for students residing in the University Housing Health Professions Residential College. Students learn about the campus and community resources, explore various health-related professions, are civically engaged, and participate in service projects. May be repeated for credit. PREREQ: PERM/INST.

**HLTH 280 INTRODUCTION TO STATISTICAL METHODS FOR HEALTH SCIENCES (3-0-3)(F, S, SU).** Introduction to the application and use of statistical principles and methods in health sciences. General computer skills (Excel) required to statistically analyze quantitative and qualitative data. PREREQ: Upper-division standing

**Upper Division**

**HLTH 300 PATHOPHYSIOLOGY (4-0-4)(F, S, SU).** Emphasis on dynamic aspects of human disease. Diseases are presented in a “system approach” with a focus on characteristics, application of diagnostic reasoning, and treatment strategies, including basic principles of pharmacology drug classifications and commonly used drugs. PREREQ: BIOL 227-228.

**HLTH 310 EVIDENCE-BASED PUBLIC HEALTH (3-0-3)(F, S, SU).** Evidence-based Public Health provides advanced study in public health prevention strategies, with an emphasis on coalition development, assessment, and evaluation of community-based prevention and health promotion strategies. PREREQ: Upper-division standing.

**HLTH 315 HEALTH POLICY AND ETHICS (3-0-3)(F, S, SU).** Survey of the policy and legal issues related to public health, health care delivery, and environmental health. Examination of how the legislative, judicial, and executive branches of government at federal, state, and local levels interact and create law. Focuses on public policy and transformational ethics as a tool to improve population health, interactions between private and public sector, and legal issues health professionals commonly encounter. PREREQ: upper-division standing.

**HLTH 355 HUMAN HEALTH AND DISEASE (3-0-3)(F, S, SU).**

Introduction to practices of health and wellness emphasizing lifestyles and measures of health. Covers general concepts related to the human body and chronic and infectious diseases, as well as how organ systems are affected by disease. PREREQ: upper-division standing.

**HLTH 360 HEALTH CARE FINANCE (3-0-3)(S).** Overview of financial management functions at the departmental level; budgeting and cost analysis for department-level operations and capital expenditures; financing of healthcare including various reimbursement/payment systems. PREREQ: BUSBTC 302 and upper-division standing.

**HLTH 365 QUALITY IMPROVEMENT AND PERFORMANCE MANAGEMENT (3-0-3)(F, S).** Provides an overview of methods and efforts to achieve measurable improvements in the efficiency, effectiveness, performance,

## COMMUNITY AND ENVIRONMENTAL HEALTH

accountability, outcomes, and other indicators of quality in services or processes, which achieve equity and improve the health of the community. PREREQ: upper-division standing.

**HLTH 382 RESEARCH METHODS IN HEALTH (3-0-3)(F, S, SU).** Design of experiments, methods of analysis, interpretation and communication of results, and use of research to support evidence-based practice. PREREQ: upper-division standing, ENGL 102 and MATH 153 or MATH 254 or KINES 301 or PSYC 295 or SOC 310 or PRE/COREQ: PUBH 318 or PERM/INST.

**HLTH 400 INTERPROFESSIONAL CAPSTONE (0-3-1)(F, S, SU)(FF).** Students, working in interdisciplinary teams, engage in problem solving and communication activities that address current health related issues, Limited to COHS majors. (Pass/Fail. ) PREREQ: NURS 416 or NURS-RN 416 or NURS-RN 425 or PRE/COREQ: EOHHS 498 or HLTH 480 or PUBH 480 or RADSCI 311 or RADSCI 430 or RESPCARE 355.

**HLTH 410 HEALTH AND AGING (3-0-3)(F, S, SU).** Focuses on the normal aging process and health concerns that affect an aging population. Strategies to maintain and enhance health for successful aging are emphasized. PREREQ: Upper-division standing or PERM/INST.

**HLTH 413 DEATH AND DYING: A MODERN CONUNDRUM (3-0-3)(F)(Even years).** Provides participants with an opportunity to confront the complex reality of death, in their own lives, and in the lives of those they care most about. Includes an explanation of issues, such as fear(s) of death, pain management, suffering, and the role of technology. Looks at the ethical theory as it applies to the above issues, as well as some common myths and misperceptions about the law, medicine, and the ethics regarding death. PREREQ: Upper-division standing.

**HLTH 418 ADVANCED PUBLIC HEALTH ANALYSIS (3-0-3)(F, S).** Topics include regression and ANOVA designs. Emphasis on data and analytic methods in public health, quantitative reasoning, data integrity, data manipulation, interpretation of research findings in the literature and use of results to make informed decisions. Use of Excel. PREREQ: Upper-division standing and MATH 153 or MATH 254 or KINES 301 or PSYC 295 or SOC 310 or PERM/INST.

**HLTH 419 PUBLIC HEALTH COMMUNICATIONS (3-0-3)(F, S).** This course is designed to familiarize students with the prominent theories, issues, and topics in the field of health communication with a range of topics, including illness and health, historical and contemporary issues, patient and provider experiences, cultural differences in health, public awareness/prevention/intervention campaigns, and the role of media and relationships in health communication. PREREQ: upper-division standing.

**HLTH 420 STRATEGIC PLANNING AND PROJECT MANAGEMENT (3-0-3)(F, S, SU).** Terminology, concepts, and forms used in both strategic planning and project management. Focuses on the similarities and differences between strategic planning (short and long term planning) and project planning (specific business activity that has a beginning and end). PREREQ: Upper-division standing.

**HLTH 460 DETERMINANTS OF HEALTH (3-0-3)(S).** Provides a comprehensive understanding of the environmental, social, and cultural factors that influence health. Topics, theories and public health methods associated with determinants of health, gender, ethnicity/race, relationships, socioeconomic status, built environment, community, political systems, stress and adverse childhood experiences, culture and their influences on individual and community health. PREREQ: Upper-division standing.

**HLTH 470 COLLABORATING FOR CHANGE (3-0-3)(F, S).** Social change and community work relies on cross-sector collaboration. This course investigates key tools and theories that empower and engage communities to address their own issues. PREREQ: upper-division standing.

**HLTH 480 EPIDEMIOLOGY (3-0-3)(F, S, SU).** Study of the distribution and determinants of disease within human populations. PREREQ: Upper-division standing and MATH 153 or MATH 254 or KINES 301 or PSYC 295 or SOC 310 or PERM/INST.

**HLTH 488 STUDENT OUTCOMES ASSESSMENT (0-0-0)(F, S, SU).**

Required to graduate. Seniors in the department of Community and Environmental Health are required to take an exit survey and participate in professional and career building activities. Additional certification exams will be provided by emphasis areas. (Pass/Fail. ) PREREQ: Senior standing.

**HLTH 493 INTERNSHIP (Variable credit)(F, S, SU).** Internship opportunities in health sciences and public health are available through the department. May be repeated for credit. (Pass/Fail. ) PREREQ: Recommendation of faculty advisor, upper-division standing, cumulative GPA above 3.25, and PERM/INST.

**HLTH 498, HLTH 499 SEMINAR (1 to 2 credits)(F/S).** Presentation of selected health science topics under faculty direction. PREREQ: senior standing.

### PUBH—Public Health

#### Lower Division

**PUBH 210 HEALTH SERVICES ADMINISTRATION (3-0-3)(S).** Overview of the health care industry and the issues that confront this dynamic system, including the changing roles of components of the system as well as technical, economic, political and social forces responsible for those changes. PREREQ: Admission to BA in Public Health major, ENGL 102.

**PUBH 230 INTRODUCTION TO ENVIRONMENTAL HEALTH (3-0-3)(F).** Evaluates the impact that chemical, physical, and biological agents have on the public's health and the environment. Examines how worldwide political, economic, and demographic diversity affects the public's health and the natural environment. PREREQ: Admission to BA in Public Health major.

**PUBH 240 FOUNDATIONS OF HEALTH EDUCATION AND PROMOTION (3-0-3)(F, S, SU).** Fundamental concepts, theories and direction of health education and promotion fields. Exploration of career opportunities and future trends in health promotion. PREREQ: Admission to BA in Public Health, ENGL 101, and ENGL 102.

#### Upper Division

**PUBH 303 FOUNDATIONS OF PUBLIC HEALTH (3-0-3)(F, S, SU).** Introduction to the online BA in Public Health (BAPH). Offers an introduction to public health and explores different disciplines within the field. The course will address the social determinants of health and explain how they influence personal and community health. PREREQ: Admission to BA in Public Health or declared Public Health certificate.

**PUBH 310 EVIDENCE-BASED PUBLIC HEALTH (3-0-3)(S).** Evidence-based Public Health provides advanced study in public health prevention strategies, with an emphasis on coalition development, assessment, and evaluation of community-based prevention and health promotion strategies. PREREQ: Admission to BA in Public Health or declared Public Health certificate, upper-division standing.

**PUBH 315 HEALTH POLICY AND ETHICS (3-0-3)(S).** Survey of the policy and legal issues related to public health, health care delivery, and environmental health. Examination of how the legislative, judicial, and executive branches of government at federal, state, and local levels interact and create law. Focuses on public policy and transformational ethics as a tool to improve population health, interactions between private and public sector, and legal issues health professionals commonly encounter. PREREQ: Admission to BA in Public Health or declared Public Health certificate.

**PUBH 318 PUBLIC HEALTH ANALYSIS (3-0-3)(F, S, SU).** Introduction to statistics and data analysis including descriptive statistics, confidence intervals, risk and odds, categorical data analysis, hypothesis testing, correlation, linear regression. Emphasis on quantitative reasoning, problem solving, communicating ideas, and applications in public health. Includes use of Excel and calculators to handle computations. PREREQ: MATH 108 or satisfactory placement score or foundations of mathematics course, and admission to BA in Public Health.

**PUBH 342 HEALTH EDUCATION AND PROMOTION METHODS (3-0-3)(SU).** Examines effective methods for assessing and planning health promotion programs. Topics include developing objectives, selecting



interventions and presenting health programs. PREREQ: PUBH 240 and admission to BA in Public Health.

**PUBH 344 HEALTH BEHAVIOR THEORY AND PRACTICE (3-0-3)(SU).** Evidence-based health interventions have a sound theoretical basis. Learn about the social and environmental influences that impact the initiation, maintenance, and change of health behaviors. Learn how to apply these principles when creating interventions focused on improving health and preventing disease. PREREQ: PUBH 240 and admission to BA in Public Health.

**PUBH 355 HUMAN HEALTH AND DISEASE (3-0-3)(S).** Introduction to practices of health and wellness emphasizing lifestyles and measures of health. This course will cover general concepts related to the human body and chronic and infectious diseases, as well as how organ systems are affected by disease. PREREQ: Admission to BA in Public Health or declared Public Health certificate.

**PUBH 365 QUALITY IMPROVEMENT AND PERFORMANCE MANAGEMENT (3-0-3)(F).** Provides an overview of methods and efforts to achieve measurable improvements in the efficiency, effectiveness, performance, accountability, outcomes, and other indicators of quality in services or processes, which achieve equity and improve the health of the community. PREREQ: Admission to BA in Public Health or declared Public Health certificate.

**PUBH 382 RESEARCH METHODS IN HEALTH (3-0-3)(F, S, SU).** Design of experiments, methods of analysis, interpretation and communication of results, and use of research to support evidence-based practice. PREREQ: Admission to BA in Public Health or declared Public Health certificate, and ENGL 102, and MATH 254 or PRE/COREQ: PUBH 318 or PERM/INST.

**PUBH 418 ADVANCED PUBLIC HEALTH ANALYSIS (3-0-3)(F, S, SU).** Continuation of PUBH 318 topics include multiple linear regression, ANOVA designs, post hoc tests, categorical data analysis, time-series, forecasting, and non-parametric data analysis. Emphasis on data and analytic methods in Public Health, quantitative reasoning, data integrity, data manipulation, interpretation of research findings in the literature and use of results to make informed decisions. Use of Excel and other statistics software packages to handle analyses. PREREQ: PUBH 318 and admission to BA in Public Health or declared Public Health certificate.

**PUBH 419 PUBLIC HEALTH COMMUNICATIONS (3-0-3)(F).** Familiarizes students with the prominent theories, issues, and topics in the field of health communication with a range of topics, including illness and health, historical and contemporary issues, patient and provider experiences, cultural differences in health, public awareness/prevention/intervention campaigns, and the role of media and relationships in health communication. PREREQ: Admission to BA in Public Health or declared Public Health certificate.

**PUBH 420 STRATEGIC PLANNING AND PROJECT MANAGEMENT (3-0-3)(SU).** Terminology, concepts, and forms used in both strategic planning and project management. Focuses on the similarities and differences between strategic planning (short and long term planning) and project planning (specific business activity that has a beginning and end). PREREQ: Upper-division standing and admission to BA in Public Health or declared Public Health certificate.

**PUBH 440 HEALTH EDUCATION AND PROMOTION PROGRAMMING (3-0-3)(F, S, SU).** Utilizes the principles of health education and promotion programming and development to plan, implement, and evaluate a community-focused health program. PREREQ: PUBH 240, PUBH 342, and admission to BA in Public Health.

**PUBH 455 PUBLIC HEALTH PROJECT (2-0-2)(F, S, SU).** Synthesis of public health concepts into developed projects within various health care venues. PREREQ: Admission to BA in Public Health major.

**PUBH 460 DETERMINANTS OF HEALTH (3-0-3)(F).** Provides a comprehensive understanding of the environmental, social, and cultural factors that influence health. This course will cover topics, theories, and public health methods associated with determinants of health. Topics include gender, ethnicity/race, relationships, socioeconomic status, built environment, community, political systems, stress and adverse childhood experiences, and culture their influences on individual and community health. PREREQ: Admission to BA in Public Health or declared Public Health certificate.

**PUBH 470 COLLABORATING FOR CHANGE (3-0-3)(SU).** Social change and community work relies on cross-sector collaboration. This course investigates key tools and theories that empower and engage communities to address their own issues. PREREQ: Admission to BA in Public Health or declared Public Health certificate.

**PUBH 480 EPIDEMIOLOGY (3-0-3)(F, S, SU).** Study of the distribution and determinants of disease within human populations. PREREQ: Upper-division standing, PUBH 318, and admission to BA in Public Health.

**PUBH 488 STUDENT OUTCOMES ASSESSMENT (0-0-0)(F, S, SU).** Seniors in the department of Community and Environmental Health are required to take an exit survey and participate in professional and career building activities. Additional certification exams will be provided by emphasis areas. (Pass/Fail.) PREREQ: Admission to BA in Public Health.

## Computational Science and Engineering Minor

College of Arts and Sciences | College of Engineering

Charles P. Ruch Engineering Building, Room 201  
(208) 426-4078 (phone)  
donnacalhoun@boisestate.edu (email)

### Degrees Offered

- Minor in Computational Science and Engineering

### Program Statement

The Computational Science and Engineering Minor is an interdisciplinary program that is designed to help prepare students with majors in engineering, sciences, and mathematics for graduate study and research careers in modeling and simulation of physical and engineering systems using modern cyberinfrastructure.

### Program Requirements

| Computational Science and Engineering Minor  |         |
|--|---------|
| Course Number and Title  | Credits |
| Choose either Cluster A or Cluster B:  |         |
| Cluster A:<br>CS 117 C++ for Engineers<br>CS 121 Computer Science I<br>CS 221 Computer Science II  | 10      |
| Cluster B:<br>CS 121 Computer Science I<br>CS 221 Computer Science II<br>CS 253 Introduction to Systems Programming  |         |
| MATH 175 Calculus II   | 4       |
| MATH 333 Differential Equations with Matrix Theory   | 4       |
| MATH 365 Introduction To Computational Mathematics or<br>MATH 465 Numerical Methods I or<br>PHYS 325 Scientific Computing  | 3       |
| CS 430 Parallel Computing or<br>ME 471 Parallel Scientific Computing   | 3       |
| One upper division (300 or above) course with a computational emphasis.<br>Requires approval of the CSE coordinator. Students can substitute a Computational Science and Engineering Internship (3 credits). Students are required to submit a final internship report to the CSE program coordinator. | 3       |
| Total  | 27      |

## Department of Computer Science

College of Engineering

City Center Plaza Suite 364  
(208) 426-5766 (phone)  
computerscience@boisestate.edu (email)  
<https://boisestate.edu/coen-cs> (website)

*Chair and Associate Professor:* Amit Jain. *Professors:* Andersen. *Associate Professors:* Buffenbarger, Cutchin, Fails, Pera, Yeh. *Assistant Professors:* Dagher, Ekstrand, Hou, Long, Kennington, Olschanowsky, Sherman, Serra, Spezzano, Xiao. *Clinical Assistant Professor:* Dit. *Lecturers:* Hindman, Panter, Schmidt, Thomas, Vail.

### Degrees Offered

- Bachelor of Science in Computer Science
  - Cybersecurity Emphasis
  - Entrepreneurship Emphasis
  - Machine Learning Emphasis
  - Secondary Education Emphasis
- Minor in Computer Science
- Minor in Cybersecurity
- Certificate in Data Science

### Department Statement

Computer Science is a discipline concerned with the study of computing, which includes programming, automating tasks, creating tools to enhance productivity, and the understanding of the foundations of computation.

The Computer Science program provides the breadth and depth needed to succeed in this rapidly changing field. Graduates of this program are well-prepared for immediate employment in either the computer industry or many other businesses that increasingly rely on computer science. The Computer Science major is the primary avenue into jobs with titles like software engineer, software developer, systems analyst, systems engineer, and others. Our students have also been successful at strong graduate schools.

The BS in Computer Science program is accredited by the Engineering Accreditation Commission of ABET, <http://www.abet.org/>.

The Computer Science, Secondary Education Emphasis combines content knowledge, theories of learning and human development, study of curriculum, and methodology to help students develop the knowledge, skills and dispositions essential for success in secondary school teaching. The program involves participation in the IDoTeach STEM-ED curriculum, which includes early and sustained field experiences for students. Candidates who complete the Secondary Education Emphasis program have demonstrated evidence of meeting the Idaho Beginning Teacher and Computer Science Standards and are eligible for recommendation for state certification and a Computer Science endorsement for teaching.

Students wishing to pursue this degree plan must meet the requirements and standards for admission to teacher education, which are described fully under STEM Education IDoTeach STEM Teaching Certification or at <https://www.boisestate.edu/idoteach/>. Students must meet and maintain all knowledge, skill, and disposition requirements to remain in the program.

### Educational Objectives

Within a few years of graduation, graduates of the Bachelor of Science in Computer Science program will be actively contributing individually and in teams, ethically applying expertise to solve problems, effectively communicating, and building on their knowledge to grow in their careers.

## Degree Requirements

| Computer Science<br>Bachelor of Science  |         |
|--|---------|
| Course Number and Title  | Credits |
| University Foundations requirements indicated in bold. See page 48 for details and lists of approved courses.  |         |
| <b>UF 100</b> Foundations of Intellectual Life   | 3       |
| <b>UF 200</b> Foundations of Ethics and Diversity  | 3       |
| <b>FW ENGL 101</b> Writing and Rhetoric I  | 3       |
| <b>FW ENGL 102</b> Writing and Rhetoric II   | 3       |
| <b>FC</b> Foundations of Oral Communication (COMM 101 recommended)   | 3       |
| <b>FM</b> MATH 170 Calculus I  | 4       |
| <b>FN</b> CHEM 111, 111L General Chemistry I & Lab or<br><b>FN</b> PHYS 211, 211L Physics I with Calculus & Lab  | 4-5     |
| <b>FN</b> Foundations of Natural, Physical, & Applied Sciences course in a second field from the following:<br>BIOL 191 Biology I: Intro to Cell and Molecular Biology<br>BIOL 227 Human Anatomy and Physiology I<br>CHEM 111, 111L General Chemistry I & Lab<br>GEOL 101 Physical Geology<br>PHYS 211, 211L Physics I with Calculus & Lab | 4-5     |
| <b>FA</b> Foundations of Arts course   | 3       |
| <b>FH</b> Foundations of Humanities course or<br><b>FH</b> STEM-ED 220 Philosophical Perspectives on Science and Mathematics (Secondary Education Emphasis)  | 3-4     |
| <b>FS</b> Foundations of Social Sciences course or<br><b>FS</b> STEM-ED 210 Knowing & Learning in Math & Science (Secondary Education Emphasis)  | 3       |
| <b>FS</b> Foundations of Social Sciences course in a second field or<br><b>FS</b> ED-CIFS 201 Education, Schooling, and Society (Secondary Education Emphasis)   | 3       |
| CS 121 Computer Science I  | 4       |
| CS 221 Computer Science II   | 3       |
| CS 230 Ethical Issues in Computing   | 3       |
| CS 253 Introduction to Systems Programming   | 3       |
| CS 321 Data Structures   | 3       |
| CS 331 Computer Security & Information Assurance   | 3       |
| CS 354 Programming Languages   | 3       |
| CS 361 Introduction to the Theory of Computation   | 3       |
| CS 421 Algorithms  | 3       |
| CS 453 Operating Systems   | 3       |
| CS 471 Software Engineering  | 3       |
| <b>FF</b> CS 481 Senior Design Project   | 3       |
| CS 488 Senior Outcome Assessment   | 0       |
| CS-HU 130 Foundational Values  | 1       |
| CS-HU 153 Navigating Computer Systems  | 1       |
| CS-HU 250 Introduction to Version Control  | 1       |
| CS-HU 271 Agile Development  | 1       |
| CS-HU 310 Introduction to Database System Usage  | 1       |
| ECE 230, 230L Digital Systems and Lab  | 4       |
| ECE 330, 330L Microprocessors and Lab  | 4       |
| ENGL 212 Technical Communication   | 3       |
| MATH 175 Calculus II   | 4       |
| MATH 189 Discrete Mathematics  | 4       |
| MATH 360 Engineering Statistics or<br>MATH 361 Probability and Statistics I  | 3       |

|  |            |
|--|------------|
| One (1) mathematics course chosen from the following:<br>MATH 275 Multivariate and Vector Calculus<br>MATH 301* Introduction to Linear Algebra<br>MATH 307 Foundations of Cryptology<br>MATH 308 Introduction to Algebraic Cryptology<br>MATH 333 Differential Equations with Matrix Theory<br>MATH 370 Functions and Modeling<br>MATH 387 Introduction to Combinatorics<br>*Required for Machine Learning Emphasis.   | 3-4        |
| In addition, complete the following coursework to graduate with BS in Computer Science (without an emphasis) or complete the courses listed under one of the emphases below to graduate with a BS in Computer Science with an emphasis in Cybersecurity, Entrepreneurship, Machine Learning, or Secondary Education.   |            |
| Additional CS, CS-HU courses chosen from:<br>CS 332 Ethical Hacking<br>CS 333 Networking Security and Defense<br>CS 334 Algorithms of Machine Learning<br>CS 401 Introduction to Web Development<br>CS 402 Mobile Application Development<br>CS 410 Databases<br>or CS 411 Databases for Data Scientists<br>CS 424 Cyber Security of Critical Infrastructures<br>CS 425 Computer Networks<br>CS 430 Parallel Computing<br>CS 436 Natural Language Processing<br>CS 437 Introduction to Information Retrieval<br>CS 441 Computer Architecture<br>CS 450 Programming Language Translation<br>CS 455 Distributed Systems<br>CS 457 Introduction to Artificial Intelligence<br>CS 464 Computer Graphics<br>CS 469 Human Computer Interaction<br>CS 472 Object-Oriented Design Patterns<br>CS 474 Software Quality<br>CS 475 Software Security<br>CS-HU 269 A Brief Intro to Human Computer Interaction<br>CS-HU 274 Software Testing<br>CS-HU 375 Secure Programming<br>CS-HU 390 Technical Interviews, Jobs and Careers<br>CS-HU 398 Current Topics in Computer Science | 13         |
| Electives to total 120 credits   | 0-1        |
| <b>Total</b>   | <b>120</b> |
| <b>Cybersecurity Emphasis</b>  |            |
| CS 332 Ethical Hacking   | 3          |
| CS 333 Networking Security and Defense   | 3          |
| Additional CS, CS-HU courses chosen from:<br>CS 401 Introduction to Web Development<br>CS 402 Mobile Application Development<br>CS 410 Databases<br>or CS 411 Databases for Data Scientists<br>CS 424 Cyber Security of Critical Infrastructures<br>CS 425 Computer Networks<br>CS 455 Distributed Systems<br>CS 474 Software Quality<br>CS 475 Software Security<br>CS-HU 274 Software Testing<br>CS-HU 375 Secure Programming<br>CS-HU 398 Current Topics in Computer Science  | 9          |
| Electives to total 120 credits   | 0-2        |
| <b>Total</b>   | <b>120</b> |

## COMPUTER SCIENCE

| Entrepreneurship Emphasis  |                |
|--|----------------|
| Additional CS, CS-HU courses chosen from:<br>CS 332 Ethical Hacking<br>CS 333 Networking Security and Defense<br>CS 334 Algorithms of Machine Learning<br>CS 401 Introduction to Web Development<br>CS 402 Mobile Application Development<br>CS 410 Databases<br>or CS 411 Databases for Data Scientists<br>CS 424 Cyber Security of Critical Infrastructures<br>CS 425 Computer Networks<br>CS 430 Parallel Computing<br>CS 436 Natural Language Processing<br>CS 437 Introduction to Information Retrieval<br>CS 441 Computer Architecture<br>CS 450 Programming Language Translation<br>CS 455 Distributed Systems<br>CS 457 Introduction to Artificial Intelligence<br>CS 464 Computer Graphics<br>CS 469 Human Computer Interaction<br>CS 472 Object-Oriented Design Patterns<br>CS 474 Software Quality<br>CS 475 Software Security<br>CS-HU 269 A Brief Intro to Human Computer Interaction<br>CS-HU 274 Software Testing<br>CS-HU 375 Secure Programming<br>CS-HU 390 Technical Interviews, Jobs and Careers<br>CS-HU 398 Current Topics in Computer Science | 6              |
| ENTREP 100 Intro to Tech Startups (1)<br>ENTREP 200 Customer Discovery for Tech Startups (1)<br>ENTREP 201 Minimal Viable Product Launch (1)<br>Or<br>ENTREP 420 New Venture Creation (3)  | 3              |
| ENTREP 400 Senior Idea Launch  | 1              |
| ENTREP 421 Managing an Emerging Business   | 3              |
| Electives to total 120 credits   | 0-4            |
| <b>Total</b>   | <b>120</b>     |
| Machine Learning Emphasis  |                |
| CS 133 Foundations of Data Science   | 3              |
| CS 233 Essentials of Data Science  | 3              |
| CS 334 Algorithms of Machine Learning  | 3              |
| Additional CS courses chosen from:<br>CS 434 Applied Deep Learning<br>CS 436 Natural Language Processing<br>CS 437 Introduction to Information Retrieval<br>CS 457 Artificial Intelligence   | 6              |
| Electives to total 120 credits   | 0-1            |
| <b>Total</b>   | <b>120</b>     |
| This emphasis requires MATH 301 as the mathematics elective course.  |                |
| Secondary Education Emphasis   |                |
| CS 401 Introduction to Web Development or<br>CS 402 Mobile Application Development   | 3              |
| STEM-ED 101 Step 1: Inquiry Approaches to Teaching   | 1              |
| STEM-ED 102 Step 2: Inquiry-based Lesson Design  | 1              |
| STEM-ED 310 Classroom Interactions   | 3              |
| STEM-ED 350 Research Methods   | 3              |
| STEM-ED 410 Project-based Instruction  | 3              |
| STEM-ED 480 Apprentice Teaching  | 6              |
| <b>Total</b>   | <b>123-127</b> |
| This emphasis requires STEM-ED 210 and STEM-ED 220 as Foundations courses.   |                |

| Computer Science Minor                          |                |
|---|----------------|
| <i>Course Number and Title</i>                  | <i>Credits</i> |
| CS 121 Computer Science I                       | 4              |
| CS 221 Computer Science II                      | 3              |
| CS 253 Introduction to Systems Programming      | 3              |
| CS 321 Data Structures                          | 3              |
| CS-HU 153 Navigating Computer Systems           | 1              |
| CS-HU 250 Introduction to Version Control       | 1              |
| CS-HU 271 Agile Development                     | 1              |
| CS-HU 310 Introduction to Database System Usage | 1              |
| MATH 170 Calculus I                             | 4              |
| MATH 189 Discrete Mathematics                   | 4              |
| <b>Total</b>                                    | <b>25</b>      |

| Cybersecurity Minor  |                |
|--|----------------|
| <i>Course Number and Title</i>   | <i>Credits</i> |
| Choose one of the following:<br>CS 117 C++ for Engineers<br>CS 121 Computer Science I<br>ITM 225 Introduction to Programming   | 3-4            |
| CS-HU 153 Navigating Computer Systems  | 1              |
| Choose one (1) of the following:<br>CS 230 Ethical Issues in Computing<br>ITM 305 Info Technology & Network Essentials<br>MATH 305 Intro to Abstract Algebra & Number Theory<br>MATH 307* Foundations of Cryptology  | 3              |
| CS 331 Computer Security and Information Assurance or<br>ITM 455 Information Security  | 3              |
| Choose two of the following (at least one CS course)<br>CS 332 Ethical Hacking<br>CS 333 Networking Security and Defense<br>MATH 307* Foundations of Cryptology<br>MATH 308 Introduction to Algebraic Cryptology<br>MATH 408 Advanced Asymmetric Cryptography &<br>Cryptanalysis | 6              |
| <b>Total</b>   | <b>16-17</b>   |
| *Only 3 credits of this course can be applied towards the minor.   |                |

| Computer Science Teaching Endorsement   |                |
|---|----------------|
| <i>Course Number and Title</i>  | <i>Credits</i> |
| MATH 170 Calculus I   | 4              |
| MATH 189 Discrete Mathematics   | 4              |
| CS 121 Computer Science I   | 4              |
| CS 221 Computer Science II  | 3              |
| CS 230 Ethical Issues in Computing  | 3              |
| CS 321 Data Structures  | 3              |
| CS 401 Introduction to Web Development or<br>CS 402 Mobile Application Development        | 3              |
| CS-HU 130 Foundational Values   | 1              |
| CS-HU 271 Agile Development   | 1              |
| CS-HU 310 Introduction to Database System Usage   | 1              |
| CS-HU 398 Current Topics in Computer Science  | 1              |
| <b>Total</b>  | <b>28</b>      |
| See Department of Curriculum, Instruction, and Foundational Studies for more information. |                |

| Data Science Certificate  |         |
|---|---------|
| Course Number and Title   | Credits |
| CS 133 Foundations of Data Science  | 3       |
| CS 233 Essentials of Data Science   | 3       |
| CS 334 Algorithms of Machine Learning                                       | 3       |
| CS 410 Databases or<br>CS 411 Databases for Data Scientists                 | 3       |
| MATH 301 Introduction to Linear Algebra                                     | 3       |
| MATH 360 Engineering Statistics or<br>MATH 361 Probability and Statistics I | 3       |
| Total   | 18      |

## Course Offerings

### CS—Computer Science

#### Lower Division

**CS 101 INTRODUCTION TO COMPUTER SCIENCE PRINCIPLES (3-0-3)(F/S).** Introduction to the central ideas, practices, and impact of computer science and computational thinking. Covers the seven big ideas in computer science: creativity, abstraction, data and information, algorithms, programming, the internet, and global impact. Computational thinking practices: connecting computing, creating computational artifacts, abstracting, analyzing problems and artifacts, communicating, and collaborating. PREREQ: MATH 108 or satisfactory placement score.

**CS 111 INTRODUCTION TO PROGRAMMING (3-0-3)(F, S).** An introduction to the syntactic and execution characteristics of programming, including selection statements, loops, arrays, functions, classes, and objects using the Python programming language. Emphasis is on construction, compilation, debugging, and execution of complete programs that implement given algorithms or solve simple problems. PREREQ: MATH 108 or a satisfactory placement score.

**CS 117 C++ FOR ENGINEERS (3-0-3)(F, S).** An introductory course in computer programming using C++. Topics include: scalar types; aggregate types; pointers and reference types; statements; expressions; functions; libraries; and a brief introduction to classes, objects, and overloading. Emphasis is on: development, compilation, debugging, and execution of complete programs implementing given algorithms for numerical, scientific, and engineering applications. PREREQ: MATH 170.

**CS 121 COMPUTER SCIENCE I (4-0-4)(F, S).** Introduction to object-oriented problem solving and programming. Software development process. Data and expression, conditionals and loops, arrays and lists, and classes and interfaces. Introduction to graphical user interfaces (GUIs). Guided, in-class programming activities and targeted projects to teach problem solving and software development skills. PREREQ: MATH 170.

**CS 133 FOUNDATIONS OF DATA SCIENCE (3-0-3)(F, S).** Introduction to Python programming and common Python data science libraries. Simple data visualization. Introduction to basic statistics including distributions and random sampling, testing statistical hypotheses, estimation, prediction, comparison, causality, and decisions. Introduction to classification methods. PREREQ: MATH 143 or satisfactory placement score.

**CS 221 COMPUTER SCIENCE II (3-0-3)(F, S).** Object-oriented design including inheritance, polymorphism, and dynamic binding. Graphical user interfaces. Recursion. Introduction to program correctness and testing/analysis of time/space requirements. Basic data structures: lists, collections, stacks, and queues. Basic searching and sorting. PREREQ: CS 121.

**CS 230 ETHICAL ISSUES IN COMPUTING (3-0-3)(F, S).** Privacy, intellectual property rights, computer crime, codes of conduct. Risks and liabilities of computer-based systems. Electronic information and free speech. Local and global impact of computing. PREREQ: ENGL 102, CS

121, CS-HU 130, and (COMM 101 and ENGL 212) or (ED-CIFS 201 and STEM-ED 220).

**CS 233 ESSENTIALS OF DATA SCIENCE (3-0-3)(S).** Introduction to data formats, data collection, data manipulation, data visualization, data cleaning, and data analysis. Introduction to probability and information theory, basic database queries, supervised classification, interpretation of results, and ethical considerations. PREREQ: CS 133.

**CS 252 INTRODUCTION TO C AND SYSTEMS PROGRAMMING FOR NON-MAJORS (3-0-3)(F/S).** Structure of C programs, functions, scope, arrays, structures, pointers and run-time memory management. Introduction to build systems, debugging techniques, shell scripting and process management. Basic systems programming including buffers, system calls, processes, threads and libraries. Not intended for Computer Science majors. CS 252 cannot replace CS 253 as prerequisites for CS upper-division courses. PREREQ: CS 117, or CS 121, or GIMM 110, or ITM 225.

**CS 253 INTRODUCTION TO SYSTEMS PROGRAMMING (3-0-3)(F, S).** Structure of C programs, functions, scope, arrays, structures, pointers, and run-time memory management. Generic programming techniques. Introduction to build systems, debugging techniques, version control, shell scripting and process management. Security vulnerabilities, buffer overflow and dynamic memory analysis. Basic systems programming including topics such as streams, buffers, pipes, system calls, processes, threads and libraries for Linux and Microsoft Windows. PREREQ: CS 221. COREQ: CS-HU 250.

#### Upper Division

**CS 321 DATA STRUCTURES (3-0-3)(F, S).** Sorting, searching, and order statistics. Further data structures: trees, priority queues, dictionaries, balanced search trees, B-Trees, heaps, hash tables, and graphs. PREREQ: CS 221 and MATH 189. COREQ: CS-HU 250, CS-HU 271 and CS-HU 310.

**CS 330 (ECE 337)(ENGR 337)(MATH 337)(ME 337) INTRODUCTION TO SECURITY IN CYBER-PHYSICAL SYSTEMS (3-0-3)(F).** Overview of systems security: hardware, software, encryption, and physical security. Includes multiple modules: system security, physical issues in security, hardware and firmware security issues, industrial control, and all things connected to the internet. PREREQ: CS 117 or CS 121 or MATH 265, PHYS 211, and MATH 189 or MATH 360 or MATH 361.

**CS 331 COMPUTER SECURITY AND INFORMATION ASSURANCE (3-0-3)(F/S).** Fundamentals of computer security and information assurance. Topics include security goals, access control, common software and network vulnerabilities, cryptography, security policies and procedures. PREREQ: CS 117 or CS 121, or ITM 225.

**CS 332 ETHICAL HACKING (3-0-3)(S).** Study of fundamental hacking techniques. Topics include information gathering, target enumeration, network sniffing, vulnerability assessment, remote exploitation, social engineering, and web hacking. PREREQ: CS 253 or CS 331 or ITM 455.

**CS 333 NETWORK SECURITY AND DEFENSE (3-0-3)(S).** Topics include firewalls, virtual private networks, intrusion detection, intrusion prevention, traffic analysis, techniques for responding to network attacks. PREREQ: CS 253 or CS 331 or ITM 455.

**CS 334 ALGORITHMS OF MACHINE LEARNING (3-0-3)(F).** Supervised classification, unsupervised classification, reinforcement learning, feature engineering, machine learning workflow, linear algebra for machine learning, evaluation metrics, survey of machine learning applications, ethical considerations. PREREQ: CS 233 and (MATH 360 or MATH 361). COREQ: MATH 301.

**CS 354 PROGRAMMING LANGUAGES (3-0-3)(F, S).** Principles of programming languages: design, syntax, semantics, information binding, strings, arithmetic, input/output, recursion and extensibility. PREREQ: CS 321.

**CS 361 INTRODUCTION TO THE THEORY OF COMPUTATION (3-0-3)(F, S).** Regular languages, finite automata, context-free languages, pushdown automata, Turing machines, decidability, introduction to reducibility and computational complexity. PREREQ: CS 321.

## COMPUTER SCIENCE

**CS 401 INTRODUCTION TO WEB DEVELOPMENT (3-0-3)(F).** An introduction to the technologies used for client-side and server-side web development. Learn fundamentals behind competing web technologies, best practices for design and usability, and build rich, dynamic, n-tier secure web applications. Tools used will be mainly open source such as PHP, Javascript, XML, HTML, CSS, MySQL, and the Apache web server. PREREQ: CS 321.

**CS 402 MOBILE APPLICATION DEVELOPMENT (3-0-3)(F/S).** A project-intensive course on mobile development using either iOS or Android as a platform. Overview of mobile platforms and their characteristics, mobile interface design and best practices using such technologies as GPS, camera, persistence, notifications and others. Platform will be announced before the beginning of each semester. PREREQ: CS 321.

**CS 410 DATABASES (3-0-3)(S).** Foundations of database management systems. Database models: relational, object and others. Database design: entity-relationship modeling, logical relational schema design, physical design, functional dependencies and normalization, and database tuning. Database application development using database interfaces embedded in host languages. PREREQ: CS 321.

**CS 411 DATABASES FOR DATA SCIENTISTS (3-0-3)(S).** Foundations of database management systems. Database models: relational, object and others. Database design: entity-relationship modeling, logical relational schema design, physical design, functional dependencies and normalization, and database tuning. Database application development using database interfaces embedded in host languages. PREREQ: CS 233.

**CS 421 ALGORITHMS (3-0-3)(F, S).** Asymptotic analysis and recurrences. Divide-and-conquer, dynamic programming, greedy algorithms, graph algorithms, and string matching. Introduction to tractability and NP-Completeness. PREREQ: CS 321.

**CS 424 CYBER SECURITY OF CRITICAL INFRASTRUCTURES (3-0-3)(S)(Odd years).** Explores vulnerabilities, threats, and mitigating controls of critical infrastructures. Examines industry standards, and protocols for protection of critical infrastructures. Discusses environmental, operational, and economic impacts of attacks and supporting mitigating controls. PREREQ: CS 253, MATH 360, PHYS 211.

**CS 425 (ECE 434) COMPUTER NETWORKS (3-0-3)(F).** Concepts and implementation of networking: physical, link, network, transport, and application layer protocols. Wireless networking and security basics. PREREQ: CS 253 and CS 321.

**CS 430 PARALLEL COMPUTING (3-0-3)(F)(Even years).** Models of parallel computation. Fundamental design patterns used in parallel algorithms: embarrassingly parallel, partitioning, divide and conquer, software pipelining, synchronous computations and load balancing. Implementation of parallel programs using MPI, GPUs and Map-Reduce on parallel clusters. PREREQ: CS 253 and CS 321.

**CS 434 APPLIED DEEP LEARNING (3-0-3)(S)(Even Years).** Introduction to multilayer perceptrons, recurrent and convolutional architectures, gradient descent, backpropagation, and regularization. Exposure to widely-used libraries and frameworks. PREREQ: CS 334 and MATH 301.

**CS 436 NATURAL LANGUAGE PROCESSING (3-0-3)(S)(Odd years).** Probability theory, information theory, and linguistics. Machine learning techniques applied to language data, including generative and discriminative classification related to language modeling, syntactic parsing, sequence tagging, and lexical semantics. PREREQ: CS 354 or CS 334. COREQ: MATH 301.

**CS 437 INTRODUCTION TO INFORMATION RETRIEVAL (3-0-3)(F)(Odd years).** An overview of Information Retrieval (IR): fundamental concepts and terminology related to IR; analyzing design methodologies and issues of IR applications; text processing, search, ranking, indexing, classification/clustering, fundamental IR models (e.g., Boolean, Vector Space, and Probabilistic models), and evaluation strategies. PREREQ: CS 321.

**CS 441 (ECE 432) COMPUTER ARCHITECTURE (3-0-3)(F).** Structure of computer systems using processors, memories, and input/output (I/O) devices as building blocks. Computer system instruction set design and implementation, including memory hierarchies, microprogramming, pipelining and multiprocessors. Issues and trade-offs involved in the design of computer system architectures with respect to the design of instruction sets. Cyber-physical security implications of

architectural design choices. May be taken for either CS or ECE credit, but not both. PREREQ: ECE 330.

**CS 450 PROGRAMMING LANGUAGE TRANSLATION (3-0-3)(S)(Odd years).** Theory/practice of formal-language translation and experience with Unix compiler-construction tools. Students work on significant projects. PREREQ: CS 253, CS 321, and CS 354.

**CS 453 OPERATING SYSTEMS (3-0-3)(F, S).** Operating systems structure and design. Process management, concurrency and synchronization, inter-process communication, scheduling, device management, memory management, file systems and security. Case studies of multiple operating systems. PREREQ: CS 230, CS 253, CS 321, and ECE 330.

**CS 455 DISTRIBUTED SYSTEMS (3-0-3)(S)(Even years).** Principles and paradigms of distributed systems. Communication, processes, naming, synchronization, consistency and replication, fault tolerance and security. In-depth coverage of Remote Procedure Call (RPC), Remote Method Invocation (RMI) and socket programming. Survey of major distributed systems. Major software project. PREREQ: CS 253 and CS 321.

**CS 457 INTRODUCTION TO ARTIFICIAL INTELLIGENCE (3-0-3)(F)(Odd years).** Topics in artificial intelligence: informed search, game playing, constraint satisfaction and optimization, logical inference, probabilistic reasoning, and learning from observations. Significant project work demonstrating various AI techniques. PREREQ: CS 253 and CS 321.

**CS 464 COMPUTER GRAPHICS (3-0-3)(F)(Odd years).** Mathematics and programming techniques for computer graphics that cover raster graphics, transformations, rendering pipeline, clipping algorithms, lighting models, shading and shadows, texture mapping, antialiasing, ray tracing, non-photorealistic graphics. MATH 275 or MATH 301 recommended. PREREQ: CS 321.

**CS 469 HUMAN COMPUTER INTERACTION (3-0-3)(S)(Odd years).** Science-based theories and models of user interface design and development. Graphical user interfaces for desktop, web, and mobile devices. Usability assessment by quantitative and qualitative methods. Task analysis, usability tests, expert reviews, and continuing assessments of working products by interviews, surveys, and logging. Building of low-fidelity paper mockups, and a high-fidelity prototype using contemporary tools and programming environments. PREREQ: CS 321.

**CS 471 SOFTWARE ENGINEERING (3-0-3)(F, S).** A formal study of the software development process. Topics include: life cycle models, requirements definition, specification, design, implementation, validation, verification, maintenance, and reuse. Students work in small teams on significant projects. PREREQ: CS 321 and CS-HU 271.

**CS 472 OBJECT-ORIENTED DESIGN PATTERNS (3-0-3)(S)(Even years).** Reviews object-oriented design principles, explains the goals and form of design patterns, and examines several well-known patterns. PREREQ: CS 321.

**CS 474 SOFTWARE QUALITY (3-0-3)(S)(Even years).** Focus on two traditional verification techniques, testing and program analysis. Emphasis on structural adequacy criteria used in testing as well as experience with open-source tools used to generate test cases and obtain coverage measurements. Static analysis, including theoretical foundations, applications, and tools. PREREQ: CS 471.

**CS 475 SOFTWARE SECURITY (3-0-3)(S)(Even years).** Principles, techniques, and best practices for developing secure software. Emphasizes the security ramifications for different activities of software development processes. Topics include security policies, security requirements analysis, threat modeling, secure design, secure programming, and security testing and verification. PREREQ: CS 321.

**CS 481 SENIOR DESIGN PROJECT (0-6-3)(F, S)(FF).** Capstone experience designing, implementing, and testing an assigned software artifact. Students report progress via documentation, meetings and demos. Class concludes with a presentation and demonstration of the completed product to students, faculty and project sponsors. Topics include teamwork, communication, ethics, project management, tools, design, verification and validation. PREREQ: CS 230 and CS 471.

**CS 488 SENIOR OUTCOME ASSESSMENT (0-0-0)(F, S).** Required to graduate. In their last semester, senior students will take an outcome-assessment examination. (Pass/Fail.) PREREQ: Senior Standing.

**CS-HU—Computer Science Hatchery Unit****Lower Division**

**CS-HU 130 FOUNDATIONAL VALUES (1-0-1)(F, S).** Foundational values for computer science students and professionals include knowledge, skills, and values supporting the inclusion of diverse individuals in all aspects of the discipline. Students learn how to develop and adapt a social contract that enhances one's ability to create and maintain a diverse, inclusive, and socially-just learning and working environment. Students also reflectively apply their new social contract in prototype situations that they encounter as computer science students and professionals. A Hatchery Unit (HU) course is a short course to develop specific professional skills for computer science.

**CS-HU 153 NAVIGATING COMPUTER SYSTEMS (1-0-1)(F, S).** Effective use of operating systems. Creating and using virtual machines. Installation and management of software packages. Basic command-line environment, filesystem layout, commands for navigating and manipulating systems, file permissions and security, filters, and an introduction to shell scripting. A Hatchery Unit (HU) course is a short course to develop specific professional skills for computer science. PREREQ: CS 117 or CS 121 or ITM 225.

**CS-HU 250 INTRODUCTION TO VERSION CONTROL (1-0-1)(F, S).** Introduction to the central ideas, practices, and day to day usage of software version control. Brief history with practical examples using Git, Mercurial, or Subversion. Basic client side usage such as committing, branching, merging, pull-request as well as more advanced usage. Server side operations such as commit hooks and toolchain integrations will be explored. A Hatchery Unit (HU) course is a short course to develop specific professional skills for computer science. PREREQ: CS-HU 153.

**CS-HU 267 INTRODUCTION TO BLOCKCHAIN (1-0-1)(F/S).** An introductory course to blockchain technology and its application to solve real life problems in various domains. Topics include: fundamentals of blockchain technology, blockchain trust models, distributed ledger, decentralized peer-to-peer network, consensus protocols, propagation, verification, and smart contracts. PREREQ: MATH 143.

**CS-HU 269 A BRIEF INTRO TO HUMAN COMPUTER INTERACTION (1-0-1)(F/S).** Introduction to user-centered design for software programs. The user-centered design cycle, design guidelines, best practices, and evaluation techniques for usable applications. Coursework includes class sessions, online interaction, assignments, and contributing to a project. COREQ: CS 221.

**CS-HU 271 AGILE DEVELOPMENT (1-0-1)(F, S).** Scrum for software development. Scrum process, user stories, acceptance criteria, and test programming. Students work in Scrum teams. A Hatchery Unit (HU) course is a short course to develop specific professional skills for computer science. PREREQ: CS 221.

**CS-HU 274 SOFTWARE TESTING (1-0-1)(F/S).** Software testing concept and tools. Topics include testing strategies, equivalence partitioning, boundary value analysis, test coverage criteria, test programming with JUnit, test-driven development. PREREQ: CS 221.

**Upper Division**

**CS-HU 310 INTRO TO DATABASE SYSTEM USAGE (1-0-1)(F, S).** Application-intensive course on database systems. Topics covered in this course include: data modeling; insertion, deletion, and update statements; basic SQL queries including queries with negation; and database APIs. A Hatchery Unit (HU) course is a short course to develop specific professional skills for computer science. PREREQ: CS 221.

**CS-HU 375 SECURE PROGRAMMING (1-0-1)(F/S).** Secure programming in Java and C/C++. Topics include buffer overflow, formatted output, integer overflow, command injection, and secure coding principles and practices. PREREQ: CS 221, CS 253, and CS-HU 310.

**CS-HU 390 TECHNICAL INTERVIEWS, JOBS, AND CAREERS (1-0-1)(F).** Prepare students for computer science technical interviews. Demonstrate how knowledge gained in classes can be used to solve new problems. Encourage teamwork and peer feedback. Learn how to negotiate jobs and manage career growth. A Hatchery Unit (HU) course is a short course to develop specific professional skills for computer science. (Pass/Fail) PREREQ: CS-HU 130, CS 253, CS 321.

**CS-HU 398 CURRENT TOPICS IN COMPUTER SCIENCE (1-0-1)(F, S).** Explore current topics in computer science from industry and academic perspectives. PREREQ: CS 230 and CS 321.

# Conflict Management Program

School of Public Service

Environmental Research Building, Room 1139  
 (208) 426-2513 (phone)  
 ashleyorme@boisestate.edu (email)

Program Coordinator: Ashley Orme

## Certificate Offered

- Certificate in Conflict Management

## Program Statement

The Conflict Management Program seeks to educate students in the practice and theory necessary for transforming conflict into opportunity. Understanding how to diagnose and intervene in conflict is key for future managers and leaders. Our focus areas include interpersonal conflict management, negotiation, mediation, conflict coaching, and group facilitation. Students will have real-world opportunities to develop conflict management skills that also support the campus and greater community with their conflict management needs. The program trains students to:

- Adopt a self-aware and culturally sensitive mindset for working with diverse populations.
- Apply sound conflict analysis processes and tools.
- Become reflective learners and continuously improve.
- Work towards reaching collaborative outcomes through inclusive processes.
- Use theory to inform practice and apply practical problem-solving approaches to resolving conflict.

## Certificate Requirements

| Conflict Management Certificate   |           |
|---|-----------|
| Course Number and Title   | Credits   |
| CONFLICT/COMM/SOC 390 Conflict Management   | 3         |
| CONFLICT 401 Negotiation  | 3         |
| CONFLICT 402 Mediation  | 3         |
| Choose one (1) of the following:<br>CONFLICT 405 Culture and Conflict<br>CONFLICT 493 Internship<br>CONFLICT 494 Workshop | 3         |
| CONFLICT 495 Connected Experiences in Conflict  | 1         |
| <b>Total</b>  | <b>13</b> |
| The Conflict Management Certificate will be awarded following completion of an associate or baccalaureate degree.         |           |

## Course Offerings

### CONFLICT—Conflict Management

**CONFLICT 390 (COMM 390)(SOC 390) CONFLICT MANAGEMENT (3-0-3)(E, S, SU).** Examination of the causes of conflict, conflict management theory, and conflict management techniques applied in interpersonal, intergroup, organizational, and community settings. Discussion and skill development through experiential learning will focus on such conflict management techniques as interpersonal management, mediation, arbitration, negotiation, and reconciliation. May be taken for credit in CONFLICT, COMM, or SOC but not from more than one department. PREREQ: Upper-division standing.

**CONFLICT 401 NEGOTIATION (3-0-3)(F/S/SU).** Negotiation is the theory and practice of communicating with others to achieve a goal. This class explores both competitive and cooperative approaches to negotiation and emphasizes skill development with a focus on negotiation planning and numerous negotiation roleplays.

**CONFLICT 402 MEDIATION (3-0-3)(F/S/SU).** Students learn the theoretical foundations of negotiation and mediation, types of mediation, mediation models, mediation case work skills, and interpersonal communication skills for facilitating communication. Students will learn how to work as a third party neutral to facilitate mediation sessions between individuals in conflict. Students will engage in intensive skills development as they work with coaches and mediate simulated practice cases.

**CONFLICT 405 CULTURE AND CONFLICT (3-0-3)(F/S/SU).** This course will focus on the importance of culture in students' everyday lives, and the ways in which culture interrelates with and effects conflict and communication processes. In an era of rapid globalization, being able to communicate across cultures is imperative in diverse workplaces and communities. Using discussions, this course is designed to increase student sensitivity to other cultures. Just as important, this journey increases students' awareness of their own culture backgrounds, and the contexts in which they live and communicate.

**CONFLICT 493 INTERNSHIP (Variable 1-3)(F/S/SU).** Internships are a unique and exciting opportunity to develop practical skills as students while providing conflict management services to the community. Internships create a supported environment for students to grow in one of the following areas: mediation, coaching, or group facilitation. May be repeated for credit, maximum 3 credits. PREREQ: PERM/INST.

**CONFLICT 495 CONNECTED EXPERIENCES IN CONFLICT (1-0-1)(E, S, SU).** This course offers students an opportunity to engage in reflection in relation to conflict management theory that stood out to them during their experience in the conflict management program. Students will research these areas and be encouraged to connect conflict management theory to their majors and future careers. PREREQ: CONFLICT 390, CONFLICT 401, CONFLICT 402.



# Department of Construction Management

College of Engineering

Charles P. Ruch Engineering Building, Room 301  
(208) 426-3764 (phone)  
gmt@boisestate.edu (email)  
<https://www.boisestate.edu/coen-cm/> (website)

Chair and Associate Professor: Casey Cline. Professor: Songer. Associate Professors: Davis, Hamilton. Lecturer: Dyer, Morrison.

## Degrees Offered

- Bachelor of Science in Construction Management
- Minor in Construction Management

## Program Statement

Construction is one of the largest and most important industries in the world today. With modern technological advancements, construction is rapidly becoming one of the most difficult and complex businesses to manage. Graduates in Construction Management demand high salaries and find multiple job opportunities upon graduation. Construction managers may be owners or salaried employees of a construction management or contracting firm, or they may work under contract or as a salaried employee of the public agency, property owner, developer, or contracting firm managing the construction project.

It is essential that the construction industry be provided with effective managers who have a comprehensive knowledge of construction, business and engineering. As a graduate of Boise State University's nationally recognized Construction Management program, you receive the education you need to become an effective professional in today's construction industry.

The Department of Construction Management offers a bachelor of science in the field. In addition, the department also offers a minor in Construction Management at the undergraduate level.

Students interested in the Construction Management program should note the following:

1. ITM 105 Spreadsheet Topics is not required for the BSCM degree but is a prerequisite for ACCT 205, ACCT 206, BUSSTAT 207, CMGT 367, and CMGT 460. Students should plan on completing the ITM course early in their course of study. A placement test for this course is available for those who already have the requisite skills. Information about the placement exam can be found here: <https://www.boisestate.edu/testing/>.
2. MATH 143 College Algebra and MATH 144 Precalculus II: Trigonometric Functions are not required for the BSCM degree, but are required prerequisites for CMGT 210, CMGT 310, and CMGT 367. Students should plan on completing both MATH courses early in their course of study. Placement tests for these courses are available for those who already have the requisite skills. Information about the placement exams can be found here: <https://www.boisestate.edu/testing/placement-other-exams/accuplacer/>.
3. All CM majors are required to take and pass the 8-hour, comprehensive American Institute of Constructors Associate Constructor (Level 1) Exam. Students should plan on taking the exam during their last semester before graduation. CM minors are not required to take the AIC exam.
4. Most CMGT courses require the use of a tablet computer (an iPad is recommended). Students will need to provide their own. See our website for details.

The program in Construction Management is accredited by the American Council for Construction Education, phone (210) 495-6161, <http://acce-hq.org/>.

## Degree Requirements

| Construction Management<br>Bachelor of Science  |         |
|---|---------|
| Course Number and Title   | Credits |
| University Foundations requirements indicated in bold. See page 48 for details and lists of approved courses.                   |         |
| <b>UF 100</b> Foundations of Intellectual Life  | 3       |
| <b>UF 200</b> Foundations of Ethics and Diversity   | 3       |
| <b>FW ENGL 101</b> Writing and Rhetoric I   | 3       |
| <b>FW ENGL 102</b> Writing and Rhetoric II  | 3       |
| <b>FC</b> Foundations of Oral Communication   | 3       |
| <b>FM MATH 160</b> Survey of Calculus or<br><b>FM MATH 170</b> Calculus I   | 4       |
| <b>FN PHYS 111</b> General Physics I or<br>PHYS 211, 211L Physics I with Calculus & Lab   | 4-5     |
| <b>FN</b> Foundations of Natural, Physical, & Applied Sciences course in a second field   | 3-4     |
| <b>FA</b> Foundations of Arts course  | 3       |
| <b>FH</b> Foundations of Humanities course  | 3-4     |
| <b>FS ECON 202</b> Principles of Microeconomics   | 3       |
| <b>FS</b> Foundations of Social Sciences course in a second field   | 3       |
| ACCT 205 Introduction to Financial Accounting   | 3       |
| ACCT 206 Introduction to Managerial Accounting  | 3       |
| BUS 202 The Legal Environment of Business   | 3       |
| BUSSTAT 207 Introduction to Business Analytics or<br>MATH 153 Statistical Reasoning or<br>MATH 254 Introduction to Statistics   | 3       |
| CMGT 110 Construction Materials and Methods   | 3       |
| CMGT 111 Construction Materials and Methods Lab   | 1       |
| CMGT 120 Introduction to Construction Management  | 3       |
| CMGT 201 Construction Communications  | 3       |
| CMGT 210 Construction Surveying & Layout  | 2       |
| CMGT 211 Construction Surveying and Layout Lab  | 1       |
| CMGT 245 Drawings, Specifications, and Codes  | 3       |
| CMGT 310 Statics & Mechanics of Materials for Building Construction   | 4       |
| CMGT 320 Construction Equipment and Methods   | 3       |
| CMGT 350 Mechanical and Electrical Installations  | 4       |
| CMGT 360 Soil Mechanics   | 3       |
| CMGT 361 Soil Mechanics Lab   | 1       |
| CMGT 367 Construction Estimating  | 3       |
| CMGT 374 Construction Operations and Improvements   | 2       |
| CMGT 385 Construction Contracts and Law   | 3       |
| CMGT 410 Temporary Structures   | 3       |
| CMGT 417 Project Scheduling   | 3       |
| CMGT 420 Introduction to Concrete and Steel Design  | 3       |
| CMGT 460 Project Cost Controls  | 3       |
| <b>FF CMGT 475</b> Construction Project Management  | 3       |
| CMGT 485 Senior Outcome Assessment  | 0       |
| PHYS 112 General Physics II or<br>PHYS 212, 212L Physics II with Calculus & Lab   | 4-5     |
| Management chosen from:<br>BUS 301 Leadership Skills<br>BUS 410 Advanced Management Topics<br>ENTREP 320 Entrepreneurial Skills | 3       |

## CONSTRUCTION MANAGEMENT

|  |         |
|--|---------|
| Labor Relations course chosen from:<br>HRM 305 Human Resource Management<br>HRM 330 Human Resource Law<br>HRM 340 Employee and Labor Relations   | 3       |
| Specialty Construction elective chosen from:<br>CMGT 340 Intro to BIM<br>CMGT 380 Pre-Construction Services<br>CMGT 450 Heavy Civil Construction<br>CMGT 455 How Did They Build That?<br>CMGT 470 Land Development<br>CMGT 493 Internship<br>CMGT 496 Independent Study<br>CMGT 497 Special Topics | 6       |
| Total  | 120-124 |

| Construction Management Minor                    |         |
|--|---------|
| Course Number and Title                          | Credits |
| CMGT 110 Construction Materials and Methods      | 3       |
| CMGT 120 Introduction to Construction Management | 3       |
| CMGT 201 Construction Communications             | 3       |
| CMGT 245 Drawings, Specifications, and Codes     | 3       |
| CMGT 367 Construction Estimating                 | 3       |
| CMGT 385 Construction Contracts and Law          | 3       |
| CMGT 417 Project Scheduling                      | 3       |
| Upper-division CMGT courses                      | 2-3     |
| Total  | 23-24   |

### Course Offerings

#### CMGT—Construction Management

##### Lower Division

**CMGT 110 CONSTRUCTION MATERIALS AND METHODS (3-0-3)(F, S).** Introduction to construction vocabulary and knowledge. Identification of construction materials, elements and systems. PREREQ: MATH 108 or equivalent.

**CMGT 111 CONSTRUCTION MATERIALS AND METHODS LAB (0-3-1)(F, S).** Introduction to construction safety. Hands-on applications in site layout, formwork and concrete; masonry, steel; wood; and other construction materials. PRE/COREQ: CMGT 110.

**CMGT 120 INTRODUCTION TO CONSTRUCTION MANAGEMENT (3-0-3)(F, S).** Study of construction management in a global environment. Topics include organizational environments, contract delivery methods, the design and construction process, basic estimating, and basic scheduling. Knowledge of word processing and spreadsheets expected. PREREQ: MATH 108.

**CMGT 201 CONSTRUCTION COMMUNICATIONS (3-0-3)(F, S).** Preparation of effective oral presentations and written documents and correspondence related to common construction industry scenarios. Consideration of ethical, professional, and civil behavior in both written and oral communication for construction project administration and management. PREREQ: CMGT 120 and ENGL 102.

**CMGT 210 CONSTRUCTION SURVEYING AND LAYOUT (2-0-2)(F).** Use of transits, theodolites, levels, and EDMs to locate and control structures, and measure horizontal and vertical distances, and angles. Error analysis, traverse, route and land surveying, construction surveying, and accompanying methods and calculations. PREREQ: MATH 144. COREQ: CMGT 211.

**CMGT 211 CONSTRUCTION SURVEYING AND LAYOUT LAB (0-3-1)(F).** Fundamentals of surveying as applied to construction layout. Lab measurements of construction layout, profile plotting, land surface area, differential and profile leveling using tape, leveling, and transit measurements. COREQ: CMGT 210.

**CMGT 245 DRAWINGS, SPECIFICATIONS, AND CODES (3-0-3)(F, S).** Reading and interpretation of construction drawings. Introduction to and practice in how orthographic views and pictorial drawings are used to represent objects. Organization, vocabulary and meaning of construction specifications and building codes. PREREQ: CMGT 110.

##### Upper Division

**CMGT 310 STATICS AND MECHANICS OF MATERIALS FOR BUILDING CONSTRUCTION (4-0-4)(F/S).** Principles of structural analysis in the design, specification, and construction of buildings. Forces and their components; static equilibrium; friction; section properties; stresses and deformations of elastic solids, combined stresses. PREREQ: CMGT 110, CMGT 120, MATH 144, MATH 160 or MATH 170, PHYS 111 or PHYS 211.

**CMGT 320 CONSTRUCTION EQUIPMENT AND METHODS (3-0-3)(S).** Characteristics, capabilities, limitations and employment of general building and heavy construction equipment. Occasional field trips required. PREREQ: CMGT 310 or ENGR 210.

**CMGT 340 INTRO TO BIM (3-0-3)(S).** Prepares students to implement Building Information Modeling (BIM) on a construction project. Establishes a knowledge base of BIM terminology. Explains the benefits of models for coordination, scheduling, estimating, and other applications using BIM software and uses case studies showing successful BIM implementation. PREREQ: CMGT 120 and CMGT 245.

**CMGT 350 MECHANICAL AND ELECTRICAL INSTALLATIONS (4-0-4)(F).** The fundamentals of mechanical and electrical contracting. Terminology, components, and basic design features of HVAC systems; plumbing systems; and electrical circuits and service equipment. Current mechanical and electrical drawings, specifications and building codes are presented. Occasional field trips required. PREREQ: CMGT 245 and either PHYS 112 or PHYS 212.

**CMGT 360 SOIL MECHANICS (3-0-3)(F).** Descriptive terminology, physical and engineering properties, measurement techniques, and behavior of soils. PREREQ: CMGT 310. COREQ: CMGT 361.

**CMGT 361 SOIL MECHANICS LAB (0-3-1)(F).** Use of test apparatus in the evaluation of soils. PRE/COREQ: CMGT 360.

**CMGT 367 CONSTRUCTION ESTIMATING (3-0-3)(F, S).** Extracting quantity take-offs from drawings, classifying the work in accordance with the specifications, compiling and pricing estimates, developing cost estimates using CSI divisions and work break-down structure, and preparation and evaluation of bids. Occasional field trips required. PREREQ: CMGT 120, CMGT 245, ITM 105 or satisfactory placement score, MATH 143 and MATH 144 or satisfactory placement score.

**CMGT 374 CONSTRUCTION OPERATIONS AND IMPROVEMENTS (2-0-2)(S).** The use of statistical sampling, time and motion studies, crew balance analysis, and flow and process charts to analyze management methods and improve labor efficiency, equipment and materials usage, safety, and employee motivation. PREREQ: CMGT 367.

**CMGT 380 PRE-CONSTRUCTION SERVICES (3-0-3)(S).** Levels of pre-design and design phase estimates, constructability reviews, value engineering, design phase scheduling. An overview of the relationship of estimates to the operations and profitability of a construction firm. PREREQ: CMGT 367.

**CMGT 385 CONSTRUCTION CONTRACTS AND LAW (3-0-3)(F, S).** Construction contract language, project documentation, and common issues in construction law, including project changes, differing site conditions, construction claims, and dispute resolution. Particular emphasis placed on written communication and negotiation techniques. PREREQ: CMGT 201.

**CMGT 410 TEMPORARY STRUCTURES (3-0-3)(F).** A study of temporary structures used in construction, including scaffolding, ground support systems, shoring, dewatering systems, and concrete form work. Emphasis on factors affecting cost, the legal significance, and the engineering basis for the design of the structures. PREREQ: CMGT 310.

**CMGT 417 PROJECT SCHEDULING (2-2-3)(F/S).** Gantt charts, S-curves, Critical Path Method (CPM), computerized scheduling, PERT charts, resource leveling and time cost trade offs used as planning, scheduling, and management techniques. PREREQ: CMGT 367.

**CMGT 420 INTRODUCTION TO CONCRETE AND STEEL DESIGN (3-0-3)(S).** Introduction to design of structural steel and reinforced concrete; includes sizing and design of beams, columns, and simple footings. PREREQ: CMGT 310.

**CMGT 450 HEAVY CIVIL CONSTRUCTION (3-0-3)(F).** Study of the methods used on Heavy Civil projects, with an emphasis on estimating. PREREQ: CMGT 245 and Senior Standing.

**CMGT 455 HOW DID THEY BUILD THAT? (3-0-3)(S).** Explores both historical and modern buildings and other structures around the world, examining the structural and aesthetic aspects of them, and determining their likely construction methods. How their construction was influenced by political, religious, economic, and other factors will also be examined. Basic construction techniques, both historical and modern, will be covered. PREREQ: CMGT 110 and upper-division standing.

**CMGT 460 PROJECT COST CONTROLS (3-0-3)(F/S).** Theory of cost accounting and cost control, with emphasis on cost determination as a tool of management and project cost control. Includes bidding, budgeting, and developing project cost record-keeping system for managing cash, receivable, payroll, and subcontractors. PREREQ: CMGT 367. PRE/COREQ: ACCT 206.

**CMGT 470 LAND DEVELOPMENT (3-0-3)(F).** Overview of the land development process, including planning, design, construction, and sale of various types of real estate. Topics include key concepts in successful development, feasibility studies, site selection and improvement, government policy and regulation, project planning and master planning, design of public infrastructure, and construction of site improvements. PREREQ: Upper-division standing.

**CMGT 475 CONSTRUCTION PROJECT MANAGEMENT (3-0-3)(F, S)(FF).** Topics related to the procurement of work and the management of construction projects including business development and proposal preparation; contract, risk and change management; safety and quality management; jobsite layout and control; leadership and team building; and sustainability and ethics. PREREQ: CMGT 367, CMGT 385 and senior status. PRE/COREQ: CMGT 417 and CMGT 460.

**CMGT 485 SENIOR OUTCOME ASSESSMENT (0-0-0)(F, S).** A comprehensive review of professional construction management principles and technical skills in preparation for the AIC Level 1 Certified Professional Constructor Exam which students are required to take and pass. (Pass/Fail.) PRE/COREQ: CMGT 320, CMGT 350, CMGT 410, and CMGT 475.

**CMGT 493 INTERNSHIP (credits vary)(F, S, SU).** Cooperative education/ internship in construction management provides practical, on-the-job experience in blueprint reading, material takeoffs, estimating, equipment management, and project planning.

**CMGT 496 INDEPENDENT STUDY (1-4 credits)(F, S, SU).** Construction studies as supervised by a construction faculty member.

## Department of Counselor Education

*College of Education*

Education Building, Room 421  
(208) 426-1219 (phone)  
counseloreducation@boisestate.edu (email)

*Chair and Associate Professor:* Aida Midgett. *Professor:* Doumas. *Assistant Professors:* Gallo, Miller, Moro.

### Department Statement

The department houses the graduate counseling programs, offers a variety of undergraduate classes, and provides coursework suitable for practicing counselors' continuing education units.

The Master of Arts in Counseling program is designed to prepare professionals in education and related careers to become professional counselors. Included are extensive practica and internship opportunities to work with a wide variety of clients in schools and other work settings. Graduates are prepared to begin the process for licensure as professional counselors.

Current areas of concentration include school counseling and addiction counseling.

### Course Offerings

#### COUN—Counseling

**COUN 301 GUIDANCE AND COUNSELING IN SCHOOLS (3-0-3)(F/S).** Prepares teacher candidates to work with school counselors and understand guidance and counseling issues in the schools. Topics may include the role of the school counselor, student mental health issues, and multiculturalism in the student population. Self-awareness and socio-emotional development in teacher preparation may also be addressed.

**COUN 458 DEPRESSION (1-0-1)(F/S).** An overview of the symptoms and underlying causal factors associated with the range of depression-based disorders. Depression based problems are discussed in terms of the interactions between cognitive, behavioral, and affective factors and related treatments are presented. (Pass/Fail.)

**COUN 459 FEARS AND PHOBIAS (1-0-1)(F/S).** An overview of the symptoms and underlying causal factors associated with the range of anxiety-based problems. Anxiety based problems are discussed in terms of the interactions between cognitive, behavioral, and affective factors and related treatments are presented. (Pass/Fail.)

# Criminal Justice Program

*School of Public Service*

Library Building, Room 166  
(208) 426-3407 (phone)  
(208) 334-2359 (fax)

crimjust@boisestate.edu (email)

<https://www.boisestate.edu/sps-criminaljustice/> (website)

*Undergraduate Coordinator, Graduate Coordinator, and Associate Professor:* Laura King. *Professors:* Giacomazzi, Growette Bostaph, William King. *Associate Professor:* Gillespie. *Assistant Professors:* Gann, Jorgensen, Lee, Wells. *Instructors:* Hudson-Venable, Ruffinengo, Swerin.

## Degrees Offered

- Bachelor of Science in Criminal Justice
- Minor in Criminal Justice

## Department Statement

The Criminal Justice program is central to the mandate by the State Board of Education that Boise State University be Idaho's lead institution in social sciences and public affairs. Our central role in this mandate is reflected in the dedication of the faculty to the creation of an intellectual environment crucial to the development of skills for critical analysis, problem solving, and full participation in public affairs. The department offers a baccalaureate, and masters degree, as well as a minor in criminal justice.

The mission of the Criminal Justice program is to create and disseminate theoretical and applied knowledge in all aspects of criminal justice and criminology through the use of the scientific method. We strive to develop students' capacity to think critically, act ethically, solve problems effectively, and communicate successfully within a multicultural society. As the state's only baccalaureate degree program in criminal justice, our stakeholders include criminal justice agencies and professionals in Idaho and all interested students. In order to provide the highest quality education, faculty actively participate in scholarship. Faculty also provide service to criminal justice and allied professional agencies, the community, and the profession.

## Admission to Criminal Justice Major

The Criminal Justice program requires all interested students to apply for admission to the criminal justice major. Prior to admission to the major, a student may declare the pre-criminal justice major. However, to be fully admitted to the program, a student must meet the following criteria below prior to enrolling in 300-level and 400-level criminal justice courses with the prerequisite of "admission to criminal justice major." Students enrolling in these upper-division criminal justice courses without being approved for admission to the major will be withdrawn administratively from the courses.

### Minimum Criteria for Admission to Criminal Justice Major

1. Admission to Boise State.
2. Completion of the following courses with a C- or better in each course: ENGL 101, ENGL 102, UF 100, UF 200, POLS 101; SOC 101 or SOC 102; BIOL 100 or BIOL 107 or BIOL 191 or BIOL 227; MATH 123 or higher; 3-4 credits in FN; 3 credits in FA; 3-4 credits in FH.
3. Completion of the following CJ lower-division courses with a B- or better in each course: CJ 101, CJ 202, CJ 203 and CJ 204.
4. At least 58 credits (including coursework in progress at the time of application).
5. Submission of a completed application through the department's website once the above requirements have been met.

## Transfer Students

Students transferring into the Criminal Justice program from other institutions will be evaluated by the undergraduate coordinator on an individual basis. Failure to meet the above minimum requirements will result in a delayed entrance into upper-division courses until the deficiencies have been addressed.

## Nonmajor Students

Upper-division nonmajors and CJ minors will be permitted to enroll in specific upper-division courses. See department website for a list of these courses.

## Degree Requirements

| Criminal Justice<br>Bachelor of Science   |         |
|---|---------|
| Course Number and Title   | Credits |
| University Foundations requirements indicated in bold. See page 48 for details and lists of approved courses.   |         |
| <b>UF 100</b> Foundations of Intellectual Life  | 3       |
| <b>UF 200</b> Foundations of Ethics and Diversity   | 3       |
| <b>FW ENGL 101</b> Writing and Rhetoric I   | 3       |
| <b>FW ENGL 102</b> Writing and Rhetoric II  | 3       |
| <b>FC</b> Foundations of Oral Communication course  | 3       |
| <b>FM</b> Foundations of Mathematics course   | 3-4     |
| <b>FN BIOL 100</b> Concepts of Biology or<br><b>FN BIOL 107</b> Introduction to Human Biology or<br><b>FN BIOL 191</b> Biology I: Intro to Cell & Molecular Biology or<br><b>FN BIOL 227</b> Human Anatomy and Physiology I | 4       |
| <b>FN</b> Foundations of Natural, Physical, & Applied Sciences course in a second field   | 3-4     |
| <b>FA</b> Foundations of Arts course  | 3       |
| <b>FH</b> Foundations of Humanities course  | 3-4     |
| <b>FS POLS 101</b> American National Government   | 3       |
| <b>FS SOC 101</b> Introduction to Sociology or<br><b>FS SOC 102</b> Social Problems   | 3       |
| CJ 101 Introduction to Criminal Justice   | 3       |
| CJ 202 Introduction to Police   | 3       |
| CJ 203 Introduction to Courts and Sentencing  | 3       |
| CJ 204 Introduction to Corrections  | 3       |
| CJ 304 Victimology and Victimization  | 3       |
| CJ 315 Theories of Crime  | 3       |
| CJ 317 Juvenile Justice   | 3       |
| CJ 375 Criminal Procedure   | 3       |
| CJ 425 Research Methods   | 3       |
| CJ 426 Statistics   | 3       |
| <b>FF CJ 498</b> Senior Seminar   | 3       |
| SPS 200 Problem Solving in Public Service   | 3       |
| SPS 240 Data in Public Service  | 3       |
| SPS 301 Engagement and Empathy in Public Service  | 3       |
| Upper-division criminal justice electives<br>A maximum of 3 credits of CJ 493 Internship may be used  | 9       |
| Upper-division electives to total 40 credits  | 7       |
| Electives to total 120 credits  | 22-25   |
| Total   | 120     |

| Criminal Justice Minor   |         |
|--|---------|
| Course Number and Title  | Credits |
| CJ 101 Introduction to Criminal Justice  | 3       |
| CJ 202 Introduction to Police  | 3       |
| CJ 203 Introduction to Courts and Sentencing   | 3       |
| CJ 204 Introduction to Corrections   | 3       |
| Upper-division criminal justice electives<br>See listing of prerequisites in course descriptions to identify courses available to students not in the BS in criminal justice program.<br>A maximum of 3 credits of CJ 493 Internship may be applied. | 9       |
| Total  | 21      |

## Course Offerings

### CJ—Criminal Justice

#### Lower Division

#### **CJ 101 INTRODUCTION TO CRIMINAL JUSTICE (3-0-3)(F, S).**

Philosophy, history, objectives, and functions of the criminal justice system as a social institution. The relationship of this system to society; and a general overview of the administration of justice.

#### **CJ 103 INTRODUCTION TO LAW AND JUSTICE (3-0-3)(F, S)(FS).**

Examines issues of social justice; e.g., poverty, racism, sexism, alienation, and use of law for social control.

**CJ 202 INTRODUCTION TO POLICE (3-0-3)(F, S).** A study of police behavior in urban and rural areas with an emphasis on the police response to community change, attitudes, special interest groups, and minority relations. PRE/COREQ: CJ 101.

**CJ 203 INTRODUCTION TO COURTS AND SENTENCING (3-0-3)(F, S).** An introduction to U.S. Criminal Courts, including: sources of law, court structure and jurisdiction, courtroom actors and juries, and processes such as pretrial procedures, trials, and sentencing. PRE/COREQ: CJ 101.

**CJ 204 INTRODUCTION TO CORRECTIONS (3-0-3)(F, S).** History, theory, practices, and research in adult, community, and institutional corrections. PRE/COREQ: CJ 101.

#### Upper Division

**CJ 300 CAREERS IN CRIMINAL JUSTICE (3-0-3)(F/S).** Personal and professional ethics and ethical decision making among criminal justice organizational agents and administrators are explored. Overview of criminal justice and related professions in the public and private sectors, regarding specific criteria, such as employment outlooks, procedures of obtaining positions, work conditions and responsibilities.

**CJ 302 ORGANIZED CRIME (3-0-3)(F/S/SU).** Explores the history of international organized crime as well as the scope and forms that organized criminal activity itself takes. The range of law enforcement and political responses to organized crime in addition to criminological and sociological explanations for the prevalence of organized crime are examined in depth.

**CJ 303 DRUGS AND CRIME (3-0-3)(F/S).** Comprehensive overview of the nature and types of drug use and their effects, theories of drug use, drug related problems and issues, criminal justice involvement with drug offenders and drug policy, and the impact of the U.S. policy of drug prohibition on the criminal justice system (police, courts, and corrections). PREREQ: Upper-division standing.

**CJ 304 VICTIMOLOGY AND VICTIMIZATION (3-0-3)(F/S).** Provides an introduction to the concepts of victimology and the various forms of criminal victimization. PREREQ: Admission to criminal justice major, declared criminal justice minor or PERM/INST.

**CJ 311 MEDIA AND CRIME (3-0-3)(SU).** Examines how crime and the criminal justice system are portrayed in popular media and how this portrayal comports with reality. Popular media will be used as the basis for discussion.

**CJ 315 THEORIES OF CRIME (3-0-3)(F, S).** Explores the biological, psychological, and sociological theories of crime and criminality. Explores the policy options for the criminal justice system and society. PREREQ: Admission to criminal justice major.

**CJ 317 JUVENILE JUSTICE (3-0-3)(F, S).** Study of the philosophy and function of the juvenile court, court procedures and law, theories of causation, and intervention strategies for juveniles. Includes an evaluation and analysis of law, institutions, policies, and practices of the court since inception. PREREQ: Admission to criminal justice major.

**CJ 321 CRIMINAL LAW (3-0-3)(F, S).** Elements and application of federal and state criminal statutes. The effect of differential enforcement on the tolerance limits of society. PREREQ: Upper-division standing.

**CJ 325 LEADERSHIP IN CRIMINAL JUSTICE ORGANIZATIONS (3-0-3)(F/S).** Examines major challenges faced by leaders at various organizational levels in a variety of criminal justice organizations and identifies the core leadership competencies necessary for meeting these challenges. PREREQ: CJ 101 and upper-division standing.

#### **CJ 331 CORRECTIONS IN THE COMMUNITY (3-0-3)(F/S).**

Development, organization, operation, and results of post-conviction release programs. Traditional court – and institutional – supervised probation and parole, work release, halfway houses, diversion, furlough concept, and various community/social agency rehabilitative programs of both traditional and innovative nature. PREREQ: CJ 204 and upper-division standing.

**CJ 340 INTERVIEWING AND COUNSELING IN CRIMINAL JUSTICE (3-0-3)(F).** Theory and skills involved in effective communication, interviewing, and counseling for criminal justice personnel. Basic communication skills and process of problem solving with criminal justice clients emphasized. PREREQ: Upper-division standing.

**CJ 350 METHODS OF LEGAL RESEARCH (3-0-3)(F).** An introduction to methods of legal research with emphasis on the utilization of law library resources, private and government organizations as sources of legal information, and on the formulation of briefs, memoranda, and other documents appropriate to legal practice. PREREQ: Upper-division standing.

**CJ 362 (SOC 362) CORRECTIONAL THEORY AND PRACTICE (3-0-3)(F/S).** The historical development, processes, and methods of operating the adult correctional system. Detailed study of the philosophy and development of treatment strategies in local, state, and federal correctional institutions. May be taken for CJ or SOC credit, but not both. PREREQ: CJ 204 and upper-division standing.

**CJ 363 CRIMINAL JUSTICE MANAGEMENT (3-0-3)(F/S).** An overview of organizational theory and administrative behavior in criminal justice agencies. Effects of leadership, technology, information systems, decision making, court cases, personnel policies, budgeting, and planning on the justice system are analyzed. PREREQ: CJ 101 and upper-division standing.

**CJ 371 CORRECTIONS LAW (3-0-3)(S).** Inmate rights, habeas corpus procedures, civil and criminal liability issues, and the history of corrections law. PREREQ: Admission to criminal justice major.

**CJ 375 CRIMINAL PROCEDURE (3-0-3)(F/S).** Presentation of the laws associated with arrest, search and seizure processes and rules of evidence. Presentation will include both law enforcement and court procedures. PREREQ: CJ 101, and upper-division standing, or criminal justice associate degree standing.

**CJ 424 ENVIRONMENTAL CRIME (3-0-3)(F/S).** History, theories, law and the nature of crime are key points of analysis. Reviews law enforcement, prosecutorial and judicial practices involving environmental crime. Past, current and potential issues examined regarding environmental crime. PREREQ: CJ 101 and upper-division standing.

**CJ 425 RESEARCH METHODS (3-0-3)(F, S).** Exploration of the philosophy of science, research designs, and their implementation. Introduction to basic quantitative and qualitative research methods in criminal justice. PREREQ: Admission to criminal justice major.

**CJ 426 STATISTICS (3-0-3)(F, S).** Introduction to elementary analytic techniques including descriptive and inferential statistics. Emphasis is placed on guiding students in selecting, computing, and interpreting criminal justice statistics. PREREQ: CJ 425 and Admission to criminal justice major.

**CJ 427 WHITE-COLLAR CRIME (3-0-3)(F/S).** Nature and extent of upper-class criminality, including measures, reporting, and categories. Emphasis on organizational, occupational, and governmental crime. Functions of social control, punishment, and regulatory agencies examined. PREREQ: Upper-division standing.

**CJ 428 THE DEATH PENALTY IN AMERICA (3-0-3)(F/S).** Historical, philosophical, and empirical examination of capital punishment with an emphasis on race/ethnicity, class, gender, and religion. Legal issues including jury-decision making, ineffective legal representation, cruel and unusual punishment, mental illness, wrongful conviction, costs, international law, and other policy issues examined. Living and working on death row, methods of execution, and philosophies of punishment explored. PREREQ: Upper-division standing.

**CJ 451 COMPARATIVE CRIMINAL JUSTICE (3-0-3)(F).** International analysis and comparison of criminal justice systems at all levels including, but not limited to, law enforcement, law, courts, and/or correctional administration. PREREQ: Admission to criminal justice major.

**CJ 461 CONTEMPORARY ISSUES IN AMERICAN POLICING (3-0-3)(S).** Study of the major contemporary issues facing the modern police organization at the local, state, and federal levels of government. Covers enforcement concerns pertaining to drugs, street gangs, and increased use of firearms. PREREQ: CJ 202 and upper-division standing.

**CJ 462 CONTEMPORARY ISSUES IN AMERICAN CRIMINAL COURTS (3-0-3)(F/S).** Study of the major contemporary issues facing the criminal court system at local, state, and federal levels of government. Topics include, but are not limited to, problem-solving courts (drug court, mental health court, etc. ), determinants of court processing decisions, and impact of legal decisions on courtroom behavior. Topics considered from historical, legal, philosophical, sociological and psychological perspectives. PREREQ: CJ 203 or CJ 321 or CJ 375, and upper-division standing.

**CJ 464 CONTEMPORARY ISSUES IN OFFENDER REHABILITATION (3-0-3)(F).** Study of the major contemporary issues facing the treatment of offenders at the local, state, and federal levels of government. Topics include, but are not limited to, treatment-centered programming and advances in rehabilitation of high-risk offenders. PREREQ: CJ 204 and upper-division standing.

**CJ 471 CRIMINALISTICS (3-0-3)(F, S).** Major concepts of forensic science and investigator role in crime scene evidence collections. PREREQ: Admission to criminal justice major or declared criminal justice minor.

**CJ 491 FIELD WORK I (V-V-3)(F, S, SU).** Placement in selected criminal justice agencies with assigned duties of regular personnel. Relevant research project required. Weekly seminar meeting to review research and agency progress. Must complete 150 contact hours in one semester. PREREQ: Admission to criminal justice major.

**CJ 492 FIELD WORK II (V-V-3 (F, S, SU).** Continuation of CJ 491. PRE/COREQ: CJ 491.

**CJ 498 SENIOR SEMINAR (3-0-3)(F, S)(FF).** Exploration of current and anticipated critical issues and problems in the criminal justice system. PREREQ: CJ 425, senior and admission to criminal justice major.

## Critical Theory

*College of Arts and Sciences*

Education Building, Room 601  
(208) 426-4261 (phone)  
gautambasuthakur@boisestate.edu (email)  
<https://www.boisestate.edu/critical-theory> (website)

*Program Coordinator:* Gautam Basu Thakur

### Program Offered

- Minor in Critical Theory

### Program Statement

The Critical Theory Minor is an interdisciplinary program offering students a variety of critical theories and perspectives for better understanding, critiquing, and transforming contemporary social realities. The ability to think critically is a primary aim of an undergraduate education, and a critical theory minor offers a useful way for students who are exploring other fields of study to develop a background in critical ways of engaging the world. Initial courses introduce major strands of critical thought and thinkers who established a foundation for the emergence of critical theorizing. The rich diversity of elective courses provides an exemplary interdisciplinary experience with opportunities to explore the reach and influence of critical theory.

### Program Requirements

| Critical Theory Minor  |                |
|--|----------------|
| <i>Course Number and Title</i>   | <i>Credits</i> |
| PHIL 316 Philosophy and Critical Theory  | 3              |
| ENGL 393 Literary Criticism and Theory   | 3              |
| GENDER 200 Introduction to Gender Studies  | 3              |
| Choose four (4) courses from at least three (3) fields:<br>COMM 321 Rhetorical Theories<br>COMM 331 Message Analysis and Criticism<br>COMM 371 Communication, Gender, and Difference<br>COMM 389 Theory and Philosophy of Communication<br>ED-CIFS 201 Education, Schooling, and Society<br>ENGL 390 Ethnic Literature<br>ENGL 395 Women Writers<br>ENGL 396 Postcolonial Literature<br>ENGL 307 Literary Translation<br>ENGL 425 Rhetoric and Society<br>GENDER 301/SOC 471 Feminist Theory<br>MDS 420 Globalization<br>PHIL 315 Phenomenology and Existentialism<br>PHIL 337 Aesthetics<br>PHIL 441/POLS 441 Classical Political Thought<br>PHIL 442/POLS 442 Modern Political Thought<br>PHIL 443/POLS 443 Contemporary Political Thought<br>SOC 320 Radical Sociology<br>WORLD 340 Topics in French and Francophone Literature | 12             |
| A course may have a prerequisite that is not required for the minor, but is required prior to taking the elective course.  |                |
| CRIT 498 Critical Theory Seminar   | 3              |
| Total  | 24             |

### Course Offerings

#### CRIT—Critical Theory

##### Upper Division

**CRIT 498 CRITICAL THEORY SEMINAR (3-0-3)(F/S).** Capstone course focusing on intense individual research projects on topics of interest to the students. PREREQ: ENGL 393, GENDER 200, or PERM/INST.

# Department of Curriculum, Instruction, and Foundational Studies

## College of Education

Education Building, Room 517  
(208) 426-1672 (phone)

<https://www.boisestate.edu/education-cifs/> (website)

*Chair and Associate Professor:* Kathleen Budge. *Professors:* Atkins-Elliott, Brendefur, Fry, Gabbard, Kelly, Parrett, Snow. *Associate Professor:* Carney. *Assistant Professors:* Boedeker, Carney, Enright, Hagenah, Mo, Siebert, Wenner, Williams. *Clinical Associate Professors:* Cross, Dismuke, Zenkert. *Clinical Assistant Professor:* Hicks. *Clinical Instructor:* Larson.

## Degrees Offered

- Bachelor of Arts in Educational Studies
- Bachelor of Arts in Elementary Education

## Department Statement

Boise State University strives to develop knowledgeable educators who integrate complex roles and dispositions in the service of diverse communities of learners. Believing that all people can learn, educators dedicate themselves to supporting that learning. Using effective approaches that promote high levels of student achievement, educators create environments that prepare learners to be citizens who contribute to a complex world. Educators serve learners as reflective practitioners, scholars and artists, problem solvers, and partners.

Teacher education (TE) candidates will examine theories of learning and human development. Coursework and practicum experiences will acquaint them with the rich diversity they will find in their K-12 classrooms and provide opportunities to practice pedagogies appropriate for the context. Coursework emphasizes the development of values aimed at a healthy society within a global community. Candidates who complete our approved program of study are teachers who accept the challenge of teaching all students and acknowledge the importance of educating a citizenry who will contribute to society as caring, responsible, and thoughtful citizens. Candidates can make effective instructional decisions and demonstrate that they meet the Idaho Standards for initial certification.

In addition to pre-service and graduate education programs, the department also serves teachers and local school districts through cooperatively developed in-service programs. The department supports school improvement efforts and provides assistance to school districts, government agencies, and the private sector.

## Elementary Education Program

The department offers a program in elementary education that leads to a recommendation to the Idaho State Department of Education for certification in Elementary Education, K-8. Students majoring in elementary education must select a subject area endorsement that will strengthen them as teachers and may improve their employability. For endorsements, see programs listed at <https://www.boisestate.edu/education-cifs/>.

## Admission to Teacher Education for Elementary, Early Childhood and Special Education, and TESOL Programs

Admission to teacher education is required before a student may enroll in certain upper-division teacher education courses.

Application is available online via Taskstream and submitted electronically for review by the Teacher Education faculty and staff (Education Building, Room 722).

The admission requirements are:

1. Application Package: see <https://www.boisestate.edu/education-tached/> for procedural details. A \$50 assessment fee is due upon application to the Office of Teacher Education.
2. Deadline:
  - First Friday in February for fall semester admission
  - Third Friday in September for spring semester admission
  - A \$50 fee will be assessed to late and/or incomplete applications
3. Academic Requirements:
  - Minimum cumulative GPA of 3.0.
  - English Composition. Six credits of English composition must be completed with a minimum grade of C in each course. (Students who score in the 80<sup>th</sup> percentile or above on the ACT or SAT may be exempted from ENGL 101.)
  - Mathematics. MATH 157 and MATH 257 with a minimum grade of C. Neither class can be taken by correspondence.
  - Science. Eight credits of laboratory science in two areas with a grade of C or better.
  - Teacher Education Pre-Professional Courses. All 200-level ED-CIFS, ED-ESP, ED-LLC, and EDTECH courses required in program degree box with a minimum grade of C in each course and an average GPA of at least 3.0 for all teacher education courses.
  - Passing scores on the Praxis Core Academic Skills for Educators in mathematics (150). For information, access the Praxis website at <http://www.ets.org/praxis/>. Passing score on the exams must be on file in the Office of Teacher Education prior to acceptance into the program.
  - Successful interview with TE interview panel.

## Limitations to Admission

Because of the large number of students seeking admission to teacher education, not all applicants can be admitted. Each semester, a target number of candidates is established and applicants are accepted until that number is reached.

## Continued Enrollment

To continue taking coursework in teacher education, every student must be reviewed and approved by the TE faculty and staff. Approval is based on:

- Student's academic record
- Faculty judgment about student's knowledge, skills, and disposition necessary for success as a teacher, determined through coursework, observation, and interviews. Further information on these traits can be found at <https://www.boisestate.edu/education-tached/applicationinformation/>.

## Admission to Professional Year for Elementary, Early Childhood, Special Education, and TESOL/ESL Programs

The following requirements for Professional Year apply to all students seeking certification in education (K-8), early childhood and special education, and TESOL. Student teaching is scheduled through the Office of Teacher Education, Education Building, Room 722.

1. Senior standing
2. Minimum cumulative GPA of 3.0
3. Minimum GPA of 3.0 in all education courses.
4. Passing score on Praxis II. For information please access the Praxis website at <http://www.ets.org/praxis/idaho/requirements>.
5. Passing score on Praxis II in your content area endorsement is needed. The State of Idaho requires a passing score for any endorsement in which you certify.
6. Fingerprinting and background check

**Special Information for the Professional Year**

1. Transfer students must meet requirements for admission to teacher education and complete at least 6 semester hours at the university before being placed in the professional year.
2. During the professional year, students are expected to engage in responsible teaching, participate in co-curricular activities, maintain close contact with faculty and students in the public schools, and participate in seminars and conferences with their university liaisons.
3. No student may continue into the final semester of the Professional Year until they have completed all coursework, and all Praxis II exams in their endorsement area.
4. Any student may be dismissed from a program leading to certification if found guilty of any offense which would be grounds for revocation or denial of an Idaho teaching certificate. Questions regarding this policy should be addressed to the Associate Dean for Teacher Education in Education Building, Room 706.
5. Student Teaching can be taken only once.
6. Students pay a fee upon registration for student teaching.
7. Students can expect to be placed in a school within a 50-mile radius of Boise State.
8. Students accepted to the Professional Year who opt to postpone student teaching must reapply.

**Special Information for Transfer Students or Students with a Prior Degree**

Transfer students and students with a prior degree are granted provisional admission to elementary teacher education during their first semester at Boise State. During the first semester, students must complete all requirements for regular admission to be granted regular admission.

**Elementary Education Certification Requirements**

Students from Boise State are recommended to the State Department of Education for an Idaho Teaching Credential after meeting the following requirements:

1. Completed application for Idaho Teaching Credential (see <http://sde.idaho.gov/cert-psc/cert/apply/index.html>).
2. Official transcripts from ALL colleges and/or universities attended.
3. Successful completion of Standard Performance Assessment for Teachers, Individual Professional Learning Plan, and Professional Year Assessment.
4. Completed Institutional Recommendation from Office of Teacher Education.
5. Official Praxis II assessment score sheets or notarized copies for all Praxis II assessments, including all endorsement areas.
6. Idaho Comprehensive Literacy Assessment Certificate.

Information regarding the certification process will be given to applicants at the Pre-Employment Seminar during the final semester of the Professional Year (student teaching).

**Degree Requirements**

| Elementary Education Bachelor of Arts   |                |
|---|----------------|
| <i>Course Number and Title</i>  | <i>Credits</i> |
| University Foundations requirements indicated in bold. See page 48 for details and lists of approved courses. |                |
| <b>UF 100</b> Foundations of Intellectual Life  | 3              |
| <b>UF 200</b> Foundations of Ethics and Diversity   | 3              |
| <b>FW ENGL 101</b> Writing and Rhetoric I   | 3              |
| <b>FW ENGL 102</b> Writing and Rhetoric II  | 3              |
| <b>FC</b> Foundations of Oral Communication   | 3              |
| <b>FM MATH 257</b> Geometry and Measurement for Teachers  | 4              |
| <b>FN</b> Foundations of Natural, Physical, & Applied Sciences two (2) courses with labs from two fields      | 8              |

|   |            |
|---|------------|
| <b>FA</b> Foundations of Arts course  | 3          |
| <b>FH</b> Foundations of Humanities course  | 3-4        |
| <b>FS</b> HIST 111 or HIST 112 United States History I, II  | 3          |
| <b>FS</b> ED-CIFS 201 Education, Schooling, and Society   | 3          |
| ART 321 Elementary School Art Methods or COUN 301 Guidance and Counseling in Schools or MUS 374 Music Fundamentals & Methods for the Elementary Classroom Teacher                                       | 3          |
| ED-CIFS 203 Child and Educational Psychology  | 3          |
| ED-CIFS 331 Elementary Mathematics Curriculum & Instr   | 3          |
| ED-CIFS 333 Elementary Science Curriculum & Instruction   | 3          |
| <b>FF</b> ED-CIFS 400 Constructing a Professional Portfolio   | 1          |
| ED-CIFS 430 Fundamental Frameworks for Supporting Teaching & Learning   | 4          |
| ED-CIFS 460 Professional Year I   | 5          |
| ED-CIFS 461 Professional Year II: Teaching Experience in Elementary Education   | 6          |
| One (1) of the following:<br>ED-CIFS 465 Professional Year III: Teaching Experience in Intermediate Elementary Education<br>ED-CIFS 466 Professional Year III: Teaching Experience in the Middle School | 6          |
| ED-LLC 200 Cultural Diversity in the School   | 3          |
| ED-LLC 300 Foundations of Linguistics & Language Acquisition  | 3          |
| ED-LLC 340 Idaho Comprehensive Literacy   | 4          |
| ED-LLC 345 Writing Processes, Instruction, and Assessment: K-8  | 3          |
| ED-LLC 442 Integrated Disciplinary Literacy in the Social Sciences  | 3          |
| ED-ESP 250 Exceptionality in the Schools  | 3          |
| EDTECH 202 Teaching and Learning in a Digital Age   | 3          |
| KINES 355 Elementary School Health & PE Curriculum & Instruction  | 3          |
| MATH 157 Number and Operations for Teachers   | 4          |
| All elementary majors must complete coursework in support of an endorsement area. For a current list of approved endorsement areas, see your advisor.   | 10-24      |
| Electives to total 120 credits  | 0-8        |
| <b>Total</b>  | <b>120</b> |
| All education courses older than 10 years will not apply towards program requirements without approval.   |            |

**Secondary Education Program**

In secondary teacher education courses, candidates will examine theories of learning and human development. Coursework and practicum experiences will acquaint candidates with the rich diversity they will find in their classrooms and provide opportunities to practice methods of teaching appropriate for the context. Coursework emphasizes the development of values aimed at a healthy society within a global community. Candidates who complete an approved program of study are teachers who accept the challenge of teaching all students and acknowledge the importance of educating a citizenry who will contribute to society as caring, responsible, and thoughtful citizens. Candidates can make effective instructional decisions and demonstrate that they meet the Standards for Initial Certification.



## Secondary Teacher Certification Program

Undergraduate students seeking secondary certification must complete a bachelor's degree in the university department offering the content courses in their chosen subject area. Completion of an approved program of study in a major endorsement area, a second endorsement area of 20 credit hours, and required professional education coursework leads to a recommendation to the Idaho Department of Education for Idaho certification. Students who do not have an endorsement in a second area must have at least 45 credit hours in the major endorsement area.

Secondary teacher education programs are offered and degrees conferred by the college in which the subject area program is located. For a list of endorsement areas, please visit <https://www.boisestate.edu/education-cifs/>.

## Admission to Secondary Teacher Education

Admission to secondary teacher education is required before a student can enroll in early field experience coursework. Application is available via Taskstream and submitted electronically for review by Teacher Education faculty and staff (Education Building, Room 722).

The admission requirements are:

1. Application Package: See <https://www.boisestate.edu/education-teachered/> for procedural details. A \$50 assessment fee is due upon application.
2. Deadline:
  - First Friday in February for fall semester admission
  - Third Friday in September for spring semester admission
  - A \$50 fee will be assessed to late and/or incomplete applications
3. Academic Requirements:
  - Minimum cumulative GPA of 3.0, except for IDoTeach and Music programs.
  - Minimum GPA of 3.0 in all major content courses (2.75 in IDoTeach and Music).
  - Minimum GPA of 3.00 in all education classes.
  - Minimum grade of C in ED-CIFS 201 Education, Schooling, and Society or its equivalent.
  - Minimum grade of C in EDTECH 202 Teaching and Learning in a Digital Age.
  - A passing score on the Praxis Core Academic Skills for Educators in Mathematics (150) for those seeking an endorsement in special education.
  - Successful interview with TE interview panel.

\*No other test will be accepted in lieu of the Praxis.

## Limitations to Admission

Because a large number of students seek admission to secondary teacher education, not all applicants can be admitted. Each academic year, applicants are accepted until the target number of candidates is reached. Priority is given to those with the highest academic GPA and to those specialty areas that have been identified as shortage areas in Idaho. Shortage areas may change over time.

## Continued Enrollment

To continue taking coursework in teacher education, every secondary education student must be reviewed and approved by Teacher Education faculty and staff. Approval is based on:

- The student's academic record
- Faculty judgment about student's knowledge, skills, and disposition necessary for success as a teacher, determined through coursework, observation, and interviews. Further information on these traits can be found at <https://www.boisestate.edu/education-teachered/>.

## Admission to the Professional Year

The following requirements apply to all students seeking certification as K-12 or secondary teachers. Field experiences are scheduled through Teacher Education, Education Building, Room 722.

1. Application Package: see <https://www.boisestate.edu/education-teachered/> for procedural details
2. Deadlines:
  - First Friday in February for admission to the Professional Year for the fall semester
  - Third Friday in September for admission to the Professional Year for the spring semester
  - A \$50 fee will be assessed to late and/or incomplete applications
3. Academic Requirements:
  - Minimum cumulative GPA of 3.00, except 2.75 for IDoTeach and Music.
  - Minimum GPA of 3.00 in the major field, minor field (except IDoTeach and Music), and in all required education courses.
  - Senior standing and successful completion of Early Field Experience.
  - Completion of sufficient credit hours in major subject areas assigned.
  - Passing scores on Praxis II in certification areas.
  - Fingerprinting and background check.

## Special Information for the Professional Year

1. Students are expected to engage in responsible teaching, participate in co-curricular activities, maintain close contact with faculty and students in the public schools, and participate in seminars and conferences with their university liaisons.
2. Students may be dismissed from a program leading to certification if found guilty of any offense which would be grounds for revocation or denial of an Idaho teaching certificate. Questions regarding this policy should be addressed to the Associate Dean for Teacher Education in the Education Building, Room 706.
3. Student Teaching can be taken only once.
4. Students pay a fee upon registration for student teaching.
5. Students can expect to be placed in a school within a 50-mile radius of Boise State.
6. Students accepted to the Professional Year who opt to postpone student teaching must reapply.

## Special Information for Transfer Students or Students with a Prior Degree

1. Transfer students must meet requirements for admission to secondary teacher education and student teaching and complete at least 6 semester hours in secondary teacher education at Boise State prior to student teaching.
2. Students with a prior degree who seek secondary certification must:
  - Have an earned degree from an accredited institution of higher learning.
  - Be enrolled in a Boise State degree program, either a second bachelor's degree at the undergraduate level if the cumulative GPA was at least a 2.75, or the Graduate Certificate in Secondary/K-12 Teaching program if the GPA was 3.0 or better. The content area(s) GPA must be a 3.0 for the Graduate Certificate program and 2.75 for second bachelor's.
  - Students seeking single subject certification must complete 45 semester credit hours in the appropriate content area(s).

### Secondary Teacher Education Courses

The following are the professional courses required for secondary teacher certification unless noted differently by specific content area majors.

| Secondary Teacher Education Courses   |         |
|---|---------|
| Course Number and Title   | Credits |
| <b>Pre-admission courses</b>  |         |
| ED-CIFS 201 Education, Schooling, and Society   | 3       |
| EDTECH 202 Teaching and Learning in a Digital Age   | 3       |
| <b>Early Field Experience</b>   |         |
| ED-CIFS 301 Teaching Experience I   | 1-2     |
| ED-CIFS 302 Learning and Instruction  | 4       |
| ED-ESP 350 Teaching Students with Exceptional Needs at the Secondary Level  | 3       |
| <b>Internship</b>   |         |
| ED-CIFS 401 Professional Year-Teaching Experience II  | 3       |
| ED-LLC 444* Content Literacy for Secondary Students   | 3       |
| Content methods course  | 3       |
| <b>Student Teaching</b>   |         |
| ED-CIFS 484 Professional Year-Junior High Teaching Experience III or<br>ED-CIFS 485 Professional Year-Senior High Teaching Experience III                         | 14      |
| ED-CIFS 481 Professional Year-Teaching Experience III Dual Option*  | 7       |
| <b>Student Teaching</b>   |         |
| ED-CIFS 482 Professional Year-Junior High Teaching Experience IV Dual Option* or<br>ED-CIFS 483 Professional Year-Senior High Teaching Experience IV Dual Option* | 7       |

\*Candidates majoring in Art, Music, and Physical Education complete two eight-week, 7 credit student teaching experiences (Blocks III and IV), one at the elementary level and one at the middle or secondary level, rather than just one experience (Block III) for 14 credits.

### Secondary Education Certification Requirements

Students from Boise State are recommended to the State Department of Education for an Idaho Teaching Credential after meeting the following requirements:

1. Completed application for Idaho Teaching Credential (see <http://sde.idaho.gov/cert-psc/cert/apply/index.html>).
2. Official transcripts from ALL colleges and/or universities attended.
3. Completed Institutional Recommendation from COED Dean's Office.
4. Successful completion of Standard Performance Assessment for Teachers, Individual Professional Learning Plan, and Professional Year Assessment.
5. Official Praxis II assessment score sheet.

Information regarding the certification process will be given at the Pre-Employment Seminar during the final semester of student teaching.

### Standard Secondary Teaching Certificate and Endorsement Areas

A Standard Secondary Certificate requires a bachelor's degree in professional education foundations and methods, including student teaching, and either a) preparation in at least two fields of secondary teaching: first teaching field of at least 30 semester credit hours and a second teaching field of at least 20 semester credit hours; or b) preparation of not less than 45 semester credit hours in a single subject area. All endorsement areas require a minimum of 20 semester credit hours. All courses applied to an endorsement must have a grade of C or better. Additionally, candidates must have a qualifying score of an approved content area assessment (Praxis II) in any areas for which the teaching endorsement(s) will be applied, and a successfully completed supervised clinical field experience.

### Admission to Upper Division College of Education Standing for Educational Studies Bachelor of Arts Degree

The Department of Curriculum, Instruction and Foundational Studies requires all candidates for the Bachelor of Arts in Educational Studies to apply for upper-division College of Education standing. To be admitted to upper-division standing, a student must meet the following criteria prior to enrolling in selected upper-division courses with the prerequisite of "upper-division College of Education standing." Students will be required to follow procedures to be admitted prior to enrollment in these courses.

#### Minimum Criteria for Admission to Upper Division College of Education Standing.

1. Admission to Boise State
2. Complete Application Packet
3. Deadline:
  - First Friday in February for fall semester admission
  - Second Friday in September for spring semester admission
4. Academic Requirements:
  - Minimum cumulative GPA of 2.5.
  - Seven or eight credits of Foundations of Natural and Applied Science, as required by your degree, with a grade of C or better.
  - Completion of The Foundations of Writing (FW) requirement.
  - Teacher Education Pre-Professional Courses. ED-LLC 200, ED-ESP 250 or ED-ESP 350, ED-CIFS 201, ED-CIFS 203 or ED-ESP 223, and EDTECH-202 or ED-ESP 255 with a minimum grade of C in each course and an average GPA of at least 2.5 for all teacher education courses.
  - Successful interview with Teacher Education interview panel.

| Educational Studies Bachelor of Arts   |         |
|--|---------|
| Course Number and Title  | Credits |
| University Foundations requirements indicated in bold. See page 48 for details and lists of approved courses.          |         |
| <b>UF 100</b> Foundations of Intellectual Life   | 3       |
| <b>UF 200</b> Foundations of Ethics and Diversity  | 3       |
| <b>FW ENGL 101</b> Writing and Rhetoric I  | 3       |
| <b>FW ENGL 102</b> Writing and Rhetoric II   | 3       |
| <b>FC</b> Foundations of Oral Communication  | 3       |
| <b>FM</b> Foundations of Mathematics course  | 3-4     |
| <b>FN</b> Foundations of Natural, Physical, & Applied Sciences course with lab   | 4       |
| <b>FN</b> Foundations of Natural, Physical, & Applied Sciences course in a second field                                | 3-4     |
| <b>FA</b> Foundations of Arts course   | 3       |
| <b>FH</b> Foundations of Humanities course (ASL 101 recommended)   | 3-4     |
| <b>FS</b> ED-CIFS 201 Education, Schooling, and Society  | 3       |
| <b>FS</b> Foundations of Social Sciences course in a second field  | 3       |
| ED-CIFS 203 Child and Educational Psychology or ED-ESP 223 Child Growth and Development                                | 3       |
| ED-ESP 250 Exceptionality in the Schools or ED-ESP 350 Teaching Students with Exceptional Needs at the Secondary Level | 3       |
| ED-LLC 200 Cultural Diversity in the School  | 3       |
| <b>FF</b> ED-CIFS 400 Constructing a Professional Portfolio  | 1       |

CURRICULUM, INSTRUCTION, AND FOUNDATIONAL STUDIES

|   |     |
|---|-----|
| <p>Assessment<br/>                     ED-CIFS 302* Learning and Instruction<br/>                     ED-ESP 327 EI/ECSE Assessment<br/>                     ED-ESP 330 Assessment for Instructional Decision-Making<br/>                     ED-LLC 331 Assessment of Bilingual and English Language Learners<br/>                     ED-LLC 343* Reading Diagnosis and Intervention</p>  | 3-4 |
| <p>Diverse Learners<br/>                     ED-CIFS 322* Social &amp; Emotional Needs of Gifted &amp; Talented Learners<br/>                     ED-ESP 221 Foundations of Professional Practice: ECE/ECSE<br/>                     ED-ESP 260 Special Education Policies and Procedures<br/>                     ED-ESP 329* Behavior Support in Early Childhood<br/>                     ED-ESP 332* Language Arts for Students with Disabilities<br/>                     ED-ESP 333* Mathematics for Students with Disabilities<br/>                     ED-ESP 345* Positive Behavior Intervention and Support<br/>                     ED-ESP 358 Students with Significant Disabilities<br/>                     ED-ESP 458* Autism Spectrum Disorder<br/>                     ED-ESP 460 Special Education at the Secondary Level<br/>                     ED-LLC 205 Migration Studies in Education<br/>                     ED-LLC 300* Foundations of Linguistics and Language Acquisition<br/>                     ED-LLC 303 Methods in Teaching Content to Bilingual and English Language Learners</p> | 6   |
| <p>Instructional Methods<br/>                     ED-CIFS 302* Learning and Instruction<br/>                     ED-CIFS 331 Elementary Mathematics Curriculum &amp; Instruction<br/>                     ED-CIFS 333 Elementary Science Curriculum &amp; Instruction<br/>                     ED-CIFS 405 Teaching Secondary Social Studies<br/>                     ED-ESP 322 Inclusive Methods ECE/ECSC<br/>                     ED-ESP 328 Intervention Methods ECE/ECSC<br/>                     ED-ESP 332* Language Arts for Students with Disabilities<br/>                     ED-ESP 333* Mathematics for Students with Disabilities<br/>                     ED-ESP 361 Place-Based and Outdoor Education in Early Childhood<br/>                     ED-ESP 363 Inquiry-Based Learning in Early Childhood<br/>                     ED-LLC 343* Reading Diagnosis and Intervention<br/>                     KINES 355 Elementary School Health &amp; PE Curriculum &amp; Instruction</p>  | 6-8 |
| <p>Families and Collaboration<br/>                     ED-ESP 321 Family and Community Relations: ECE/ECSE<br/>                     PSYC 419 Children &amp; Families: Multicultural Perspectives<br/>                     SOC 340 Sociology of the Family</p>   | 3   |
| <p>Language and Literacy<br/>                     ED-LLC 300 Foundations of Linguistics and Language Acquisition<br/>                     ED-LLC 340 Idaho Comprehensive Literacy<br/>                     ED-LLC 345 Writing Processes, Instruction, and Assessment: K-8<br/>                     ED-LLC 346 Children's Literature<br/>                     ED-LLC 444 Content Literacy for Secondary Students<br/>                     ED-LLC 447 Young Adult Literature</p>  | 6-7 |
| <p>Learning Environments and Behavior Support<br/>                     ED-CIFS 302* Learning and Instruction<br/>                     ED-CIFS 322* Social &amp; Emotional Needs of Gifted &amp; Talented Learners<br/>                     ED-ESP 329* Behavior Support in Early Childhood<br/>                     ED-ESP 345* Positive Behavior Intervention and Support<br/>                     ED-ESP 458* Autism Spectrum Disorder</p>  | 3-4 |
| <p>Technology<br/>                     ED-ESP 255 Educational and Assistive Technology<br/>                     EDTECH 202 Teaching and Learning in a Digital Age</p>   | 3   |
| <p>Leadership and Human Relations Certificate</p>   |     |
| <p>LEAD 325 Foundations of Leadership</p>   | 3   |
| <p>LEAD 326 The Practice of Leadership</p>  | 3   |
| <p>LEAD 327 Relational Leadership</p>   | 3   |

|   |       |
|---|-------|
| <p>Select from the following courses:<br/>                     CONFLICT/COMM/SOC 390 Conflict Management<br/>                     CONFLICT 401 Negotiation<br/>                     CONFLICT 405 Culture and Conflict<br/>                     LEAD 225 Civic Engagement and Leadership<br/>                     LEAD 480 Studies in Leadership<br/>                     MDS 410 Case Studies in Leadership</p> | 6     |
| <p>LEAD 495 Leadership Experience</p>   | 1     |
| <p>Upper-division electives to total 40 credits</p>   | 0-5   |
| <p>Electives to total 120 credits</p>   | 13-27 |
| <p>Total</p>  | 120   |
| <p>*Courses may only be used to meet one content area requirement.<br/>                     The Educational Studies degree does not lead to recommendation for certification by the College of Education.</p>   |       |

Course Offerings

ED-CIFS—Curriculum, Instruction, and Foundational Studies

Lower Division

**ED-CIFS 100 CAMP UNIVERSITY SUCCESS (3-0-3)(F).** Designed to meet the specific academic needs of CAMP students. Students develop academic strategies needed to achieve educational goals and expand their awareness of social support systems available within the university and the community. PREREQ: Admission to CAMP program.

**ED-CIFS 101 CAMP CAREER SUCCESS (3-0-3)(S).** Students are guided through a self-reflection process, examine career goals and how they fit with their long term planning, and provided with multiple networking opportunities. PREREQ: Admission to CAMP program.

**ED-CIFS 201 EDUCATION, SCHOOLING, AND SOCIETY (3-0-3)(F, S, SU)(FS).** Study and evaluate schooling within the United States as a social institution that both shapes and is shaped by societal forces. Critical examination of its origins, evolution, and current forms. Provides a conceptual framework from which students will reflect upon and question American public education.

**ED-CIFS 203 CHILD AND EDUCATIONAL PSYCHOLOGY (3-0-3)(F, S).** Introduction to children's development and its universal characteristics across cultures, educational psychology, theories of learning, cognitive development, motivation and self-concept, and educational measurement. Designed primarily for Elementary Education majors.

Upper Division

**ED-CIFS 301 TEACHING EXPERIENCE I (Variable 1-2)(F, S).** A 50-100 hour teaching experience in the public schools. Students will observe the teaching/learning process and identify best research-based practices in a classroom setting. (Pass/Fail.) PREREQ: Admission to Secondary Education. COREQ: ED-CIFS 302 and ED-ESP 350.

**ED-CIFS 302 LEARNING AND INSTRUCTION (4-0-4)(F, S).** Introduction to educational psychology, principles of learning and instruction, and general methods of teaching. Theories and models of learning and teaching, cognitive development, motivation and self-concept, classroom management and educational measurement. PREREQ: Admission to Secondary Education or upper-division College of Education standing. COREQ: ED-CIFS 301 (except for Art Education majors) and ED-ESP 350 or KINES 351 and KINES 352.

**ED-CIFS 320 FOUNDATIONS OF GIFTED AND TALENTED EDUCATION (3-0-3)(F/S).** Overview of gifted/talented education. Topics include identification, assessments, talent areas, curriculum adaptations, social needs, critical and creative thinking, legal aspects, and resources. PREREQ: PSYC 101 and ED-CIFS 203 or ED-CIFS 302 or ED-CIFS 538, or PERM/INST.

**ED-CIFS 321 CREATIVITY AND CRITICAL THINKING SKILLS (3-0-3)(F/S).** Definition, identification, and facilitation of creativity and critical thinking skills. Topics include overview, cognitive development, related

brain research, assessment instruments, creative people, processes, and conditions for fostering creativity and models of critical thinking including creative problem solving. Demonstration of competency in identifying, fostering, assessing, demonstrating, and describing programs that foster creativity and critical thinking are required. PREREQ: PSYC 101 and ED-CIFS 203 or ED-CIFS 302 or ED-CIFS 538, or PERM/INST.

**ED-CIFS 322 SOCIAL AND EMOTIONAL NEEDS OF GIFTED AND TALENTED LEARNERS (3-0-3)(F/S).** Identification and basic intervention for basic affective needs of gifted and talented learners. Topics covered will include: emotional aspects of giftedness, suicide, perfectionism, underachievement, peer relations, gender issues, risk taking, family relations, cultural factors, twice exceptional, self-esteem, career counseling, asynchronous development, and counseling skills for teachers. PREREQ: PSYC 101 and ED-CIFS 203 or ED-CIFS 302 or ED-CIFS 538, or PERM/INST.

**ED-CIFS 329 ASSESSMENT IN TEACHING AND LEARNING (3-0-3)(F, S).** Assessment strategies in the classroom discussed. Analysis, administration and interpretation of standardized assessment instruments, performance assessments using national and state standards, teacher-constructed assessment tools, and evaluation and grading will be examined. PREREQ: Admission to Teacher Education. COREQ: ED-CIFS 332 and ED-CIFS 460 for Elementary Education majors; ED-CIFS 332 and ED-CIFS 459 for Dual Special Education, Elementary Education/Dual Early Childhood Intervention, Elementary Education majors.

**ED-CIFS 330 ELEMENTARY SOCIAL STUDIES CURRICULUM AND INSTRUCTION (2-3-3)(F, S).** Examines elementary social studies curricula, philosophies, and methodologies. Instructional strategies and materials are presented and evaluated in accordance with developmental theory. Focus on the ten strands of social studies, values in a democratic and pluralistic society, and global issues. These areas are integrated across the curriculum, emphasizing process, critical thinking, technology, and assessment. PREREQ: Admission to Teacher Education.

**ED-CIFS 331 ELEMENTARY MATHEMATICS CURRICULUM AND INSTRUCTION (3-0-3)(F, S).** Examines elementary mathematics curricula, philosophies, and methodologies. Instructional strategies and materials are presented and evaluated in accordance with developmental theory. Focus on the process and content strands in elementary mathematics. These areas are integrated across the curriculum, emphasizing critical thinking and assessment. PREREQ: Admission to Teacher Education or upper-division College of Education standing.

**ED-CIFS 332 ELEMENTARY CLASSROOM LEARNING ENVIRONMENTS (3-0-3)(F, S).** Examines how to structure classrooms and learning environments, enhancing opportunities for all children to succeed. Varied classroom management skills and strategies to support appropriate behavior. Communicating and collaborating with parents is addressed along with democratic community building within the classroom. PREREQ: Admission to Teacher Education. COREQ: ED-CIFS 329 and ED-CIFS 460 for Elementary Education majors; ED-LLC 460 for Bilingual Education and Elementary Education TESOL majors; ED-CIFS 329 and ED-CIFS 459 for Dual Special Education, Elementary Education/Dual Early Childhood Intervention, Elementary Education; ED-CIFS 459 for Special Education Option 1 majors.

**ED-CIFS 333 ELEMENTARY SCIENCE CURRICULUM AND INSTRUCTION (3-0-3)(F, S).** Examines elementary science curricula, philosophy, and methodologies. A variety of instructional strategies and materials are presented and evaluated in accordance with developmental theory. Emphasis is placed on inquiry in the science curricula. These areas are integrated across the curriculum, emphasizing process, critical thinking, technology, and assessment. PREREQ: Admission to Teacher Education or upper-division College of Education standing.

**ED-CIFS 339 CURRICULUM ADAPTATIONS FOR GIFTED AND TALENTED STUDENTS (3-0-3)(F/S).** Curriculum adaptations for gifted and talented learners including curriculum compacting, independent study, project-

based learning, research-based learning, enrichment programs, mentoring programs, acceleration, dual enrollment, and more. PREREQ: PSYC 101 and ED-CIFS 203 or ED-CIFS 302 or ED-CIFS 538, or PERM/INST.

**ED-CIFS 400 CONSTRUCTING A PROFESSIONAL PORTFOLIO (1-0-1)(F, S)(FF).** Designed to integrate course content and Professional Year experiences with the opportunity to develop communication skills important in the profession of education. This course helps to achieve the goals of the Foundations program. PREREQ: Admission to the Professional Year.

**ED-CIFS 401 PROFESSIONAL YEAR: TEACHING EXPERIENCE II (0-9-3)(F, S).** Students will work with a master teacher for a minimum of 150-200 hours. They will observe the teaching/learning process and demonstrate teaching competence in a P-12 classroom setting. (Pass/Fail. ) PREREQ: Admission to Secondary Education. COREQ: ED-LLC 444 and the content methods course for the student's declared major.

**ED-CIFS 404 TEACHING SECONDARY SCIENCE (3-0-3)(F).** Local, state and national science curricula and standards. Materials, methods and instructional technologies to develop science lessons to develop scientific inquiry skills, an understanding of the nature of science, and critical understanding of selected science concepts and procedures. PREREQ: Admission into Secondary Education and ED-ESP 350. COREQ: ED-CIFS 401 and ED-LLC 444.

**ED-CIFS 405 TEACHING SECONDARY SOCIAL STUDIES (3-0-3)(F, S).** Prepares teachers to engage young people in an inquiry about fundamental ideas and values from history and/or social science disciplines as well as to assist and encourage them to become informed, active participants in a democratic society. Examine professional literature on best teaching practices. PREREQ: Admission to Secondary Education and ED-ESP 350. COREQ: ED-CIFS 401 and ED-LLC 444.

**ED-CIFS 406 MCNAIR JUNIOR SEMINAR A (3-0-3)(F).** Introduction to graduate school and academic culture. Exploration of discipline and graduate programs. Literature search to develop research question for summer research. May be repeated for credit. PREREQ: Admission to McNair Scholars program.

**ED-CIFS 407 MCNAIR JUNIOR SEMINAR B (3-0-3)(S).** Develop research proposal for summer research. Prepare for GRE. Develop components of graduate application package. Explore graduate school funding possibilities. May be repeated for credit. PREREQ: Admission to McNair Scholars program.

**ED-CIFS 408 MCNAIR SENIOR SEMINAR A (1-3 credits)(F).** Prepare research journal article for publication. Present research at National McNair conference. Finalize graduate school application components and apply. May be repeated for credit. (Pass/Fail. ) PREREQ: Admission to McNair program.

**ED-CIFS 409 MCNAIR SENIOR SEMINAR B (1-3 credits)(S).** Prepare for and attend graduate school visitations or interviews. Manage graduate school acceptance deadlines and offers. Prepare for graduate school transition and relocation. May be repeated for credit. (Pass/Fail. ) PREREQ: Admission to McNair Scholars program.

**ED-CIFS 430 FUNDAMENTAL FRAMEWORKS FOR SUPPORTING TEACHING AND LEARNING (4-0-4)(F, S).** Theory and practice for P-12 educators in developing and maintaining learning environments. Interpretation of assessment data and knowledge of motivation theories will be used to inform differentiated instruction, tiered intervention, and structures of classroom learning environments that enhance opportunities for all children to succeed. PREREQ: Admission to Professional Year or upper-division College of Education standing. COREQ: ED-CIFS 460 and ED-LLC 442 for Elementary Education majors; ED-LLC 442 and ED-CIFS 459 for Dual Special Education, Elementary Education/Dual Early Childhood Intervention, Elementary Education.

**ED-CIFS 453 PROFESSIONAL EDUCATION (Variable 1-3)(F, S, SU).** Available at special fee rate (approximately one-third of part-time education fee). Student must be an Idaho public school teacher or professional employee of an Idaho school district. Credit awarded is for professional development only and cannot be applied toward a degree program. (Pass/Fail. )

**ED-CIFS 458 SUPERVISED CLINICAL FIELD EXPERIENCE (1-6 credits) (F/S/SU).** Required supervision for teaching candidates adding an endorsement to current teaching certificate or for an alternate route to initial certification. Full-time classroom placement with performance assessment aligned with state certification requirements. Placement and credits required determined by Office of Teacher Education.

**ED-CIFS 459 TEACHING EXPERIENCE IN ELEMENTARY EDUCATION (0-28-8) (F, S).** Teaching experience in an elementary education classroom for students pursuing dual certification in an Early and Special Education program. Teaching experience includes activities related to planning and preparation, classroom environments, curriculum and instruction, and professional responsibilities. Students will complete a teaching experience consistent with the calendars of the assigned partnership schools and degree program requirements. (Pass/Fail.) PREREQ: Admission to Professional Year. COREQ: ED-CIFS 430 and ED-LLC 442.

**ED-CIFS 460 PROFESSIONAL YEAR I (0-18-5) (F, S).** Classroom placement focusing on activities related to planning and preparation of curriculum and instruction, and professional responsibilities. Students complete a minimum of 250 hours in the K-8 classroom and apply knowledge and skills from all professional education coursework. (Pass/Fail.) PREREQ: Admission to the Professional Year. COREQ: ED-CIFS 430, ED-LLC 442.

**ED-CIFS 461 PROFESSIONAL YEAR II: TEACHING EXPERIENCE IN ELEMENTARY EDUCATION (0-21-6) (F/S).** Teaching experience in a partnership school, including activities related to planning and preparation, classroom environments, curriculum and instruction, and professional responsibilities. Students will complete a full-time teaching experience consistent with the calendar of the assigned partnership school. (Pass/Fail.) PREREQ: ED-CIFS 330, ED-CIFS 331, ED-CIFS 332, ED-CIFS 333, ED-CIFS 460, and ED-LLC 440. COREQ: ED-CIFS 465 or ED-CIFS 466.

**ED-CIFS 465 PROFESSIONAL YEAR III: TEACHING EXPERIENCE IN INTERMEDIATE ELEMENTARY EDUCATION (0-21-6) (F, S).** The concluding teaching experience in the Professional Year for students interested in an intermediate elementary education classroom, with a full-time teaching experience in an intermediate elementary education classroom. Students will complete a teaching experience consistent with the calendars of the assigned partnership schools. (Pass/Fail.) PREREQ: ED-CIFS 460 and completion of all Elementary Education requirements. COREQ: ED-CIFS 461.

**ED-CIFS 466 PROFESSIONAL YEAR III: TEACHING EXPERIENCE IN THE MIDDLE SCHOOL (0-21-6) (F, S).** The concluding teaching experience in the Professional Year for students pursuing a full-time teaching experience in a middle school. Students will complete a teaching experience consistent with the calendars of the assigned partnership schools. (Pass/Fail.) PREREQ: ED-CIFS 460. COREQ: ED-CIFS 461.

**ED-CIFS 481 PROFESSIONAL YEAR: ELEMENTARY TEACHING EXPERIENCE III DUAL OPTION (0-20-7) (F, S).** Supervised student teaching in an elementary school. Students will be placed with a master teacher for one half-semester (full-time) in their major/minor field under the supervision of university faculty. Available for Art and Music majors only. Attendance at seminars is required. (Pass/Fail.) PREREQ: Admission to Professional Year. COREQ: ED-CIFS 482 or ED-CIFS 483.

**ED-CIFS 482 PROFESSIONAL YEAR: JUNIOR HIGH TEACHING EXPERIENCE IV DUAL OPTION (0-20-7) (F, S).** Supervised student teaching in a junior high school. Students will be placed with a master teacher for one half-semester (full-time) in their major/minor fields under the supervision of university faculty. Available for Art and Music majors only. Attendance at seminars is required. (Pass/Fail.) PREREQ: Admission to Professional Year. COREQ: ED-CIFS 481 or ED-CIFS 483.

**ED-CIFS 483 PROFESSIONAL YEAR: SENIOR HIGH TEACHING EXPERIENCE IV DUAL OPTION (0-20-7) (F, S).** Supervised student teaching in a senior high school. Students will be placed with a master teacher for one half-semester (full-time) in their major/minor fields under the supervision of university faculty. Available for Art and Music majors only. Attendance at seminars is required. (Pass/Fail.) PREREQ: Admission to Professional Year. COREQ: ED-CIFS 481 or ED-CIFS 482.

**ED-CIFS 484 PROFESSIONAL YEAR: JUNIOR HIGH TEACHING EXPERIENCE III (1-40-14) (F/S).** Supervised student teaching in a junior high school. Students will be placed with a master teacher for one semester (full-time in their major/minor fields) under the supervision of university faculty. Attendance at seminars is required. (Pass/Fail.) Not available for Art, Music, or Physical Education majors. PREREQ: Admission to Professional Year.

**ED-CIFS 485 PROFESSIONAL YEAR: SENIOR HIGH TEACHING EXPERIENCE III (1-40-14) (F, S).** Supervised student teaching in a senior high school. Student will be placed with a master teacher for one semester (full-time) in their major/minor fields under the supervision of university faculty. Attendance at seminars is required. (Pass/Fail.) Not available for Art, Music, or Physical Education majors. PREREQ: Admission to Professional Year.

## Data Science for the Liberal Arts

College of Arts and Sciences

Department of Anthropology  
Hemingway Western Studies Center, Room 55  
(208) 426-3023 (phone)  
(208) 426-4329 (fax)  
anthropology@boisestate.edu (email)

Department of Psychological Science  
Education Building, Room 629  
(208) 426-1207 (phone)  
(208) 426-4386 (fax)  
psychology@boisestate.edu (email)

Program Coordinator: Kristin Snopkowski

### Certificates Offered

- Certificate in Data Science for the Liberal Arts
- Minor in Data Science for the Liberal Arts

### Program Statement

The Data Science for the Liberal Arts certificate and minor trains undergraduates in statistical analyses and basic programming skills to extract useful information from large and complex datasets that have been collected to examine and understand human behavior. This program will enhance the skills already mastered by liberal arts students in research methods. The minor is tailored to include optional classes from many liberal arts disciplines, allowing students to prepare for graduate work or outside employment. All students enrolled in the certificate or minor will be required to conduct a research project analyzing data for a professional stakeholder to demonstrate their skills in the final course (DATA-LA 485).

### Certificate Requirements

| Data Science for the Liberal Arts Certificate |         |
|---|---------|
| Course Number and Title                       | Credits |
| Statistics course                             | 3       |
| CS 133 Foundations of Data Science            | 3       |
| DATA-LA 322 Principles of Data Science        | 3       |
| DATA-LA 485 Statistical Modeling in R         | 3       |
| Total   | 12      |

| Data Science for the Liberal Arts Minor   |         |
|---|---------|
| Course Number and Title   | Credits |
| Statistics course   | 3       |
| CS 133 Foundations of Data Science  | 3       |
| DATA-LA 322 Principles of Data Science  | 3       |
| DATA-LA 485 Statistical Modeling in R   | 3       |
| Six (6) credits from the following:<br>COID 332 Analytics for Design<br>DATA-LA 410 Behavioral Time Series<br>DATA-LA 420 Social Network Analysis<br>ITM 315 Database Systems<br>LING 403 Corpus Linguistics<br>PHYS 325 Scientific Computing<br>PSYC 405 Advanced Statistical Methods<br>SOC 410 Advanced Social Statistics<br>Other course with data science content from any department with program advisor approval. | 6       |
| Total   | 18      |

### Course Offerings

#### DATA-LA—Data Science—Liberal Arts

**DATA-LA 322 (ANTH 322)(PSYC 322)(SOC 322) PRINCIPLES OF DATA SCIENCE (3-0-3)(F).** An introduction to the core concepts of data science including: predictive modeling using machine learning and data mining; data gathering, extraction and cleaning; and exploratory data analysis. Emphasizes practical skills for liberal arts students to examine questions of human behavior using large and complex data sets. May be taken for credit in ANTH, DATA-LA, PSYC, or SOC but not for more than one discipline. PREREQ: Upper-division standing, CS 133, and a statistics course.

**DATA-LA 410 BEHAVIORAL TIME SERIES (3-0-3)(F, S).** Survey of rhythmic patterns of behavior, particularly in large data sets, and examination of the rationale and computational procedures for the analysis of time series in the time and frequency domains. PREREQ: Upper-division standing and a statistics course.

**DATA-LA 420 (ANTH 420)(PSYC 420)(SOC 420) SOCIAL NETWORK ANALYSIS (3-0-3)(F, S, SU).** Introduces and applies concepts and empirical methods of network analysis in a field-based project. Social networks influence learning, economic behavior, and adoption of new products and organizational innovations. May be taken for credit in ANTH, DATA-LA, PSYC, or SOC but not for more than one discipline. PREREQ: Upper-division standing and a statistics course.

**DATA-LA 485 (ANTH 485)(PSYC 485)(SOC 485) STATISTICAL MODELING IN R (3-0-3)(S).** Focuses on statistical methods for practical data analysis, including parametric and non-parametric analyses, ANOVA, multiple and logistic regression, generalized linear models, and dimension reduction methods using R to examine and understand human behavior. Students will conduct a research project designed in partnership with a professional stakeholder that delivers actionable outcomes. May be taken for credit in ANTH, DATA-LA, PSYC, or SOC but not for more than one discipline. PREREQ: ITM 330 and ITM 340; or DATA-LA 322.

# Department of Early and Special Education

*College of Education*

Education Building, Room 218

(208) 426-2814 (phone)

(208) 426-4006 (fax)

<https://www.boisestate.edu/education/> (website)

*Interim Chair and Associate Professor:* Patricia Hampshire. *Professors:* Carter, Johnson. *Associate Professors:* Humphrey, Pool. *Assistant Professors:* Ford, Nelson. *Clinical Assistant Professor:* Beymer. *Clinical Instructor:* Moos.

## Degrees and Certificates Offered

- Bachelor of Arts in Blended Early Childhood/Early Childhood Special Education
- Bachelor of Arts in Dual Blended Early Childhood/Early Childhood Special Education, Elementary Education
- Bachelor of Arts in Dual Special Education, Early Childhood Special Education
- Bachelor of Arts in Dual Special Education, Elementary Education
- Bachelor of Arts in Inclusive Early Childhood Education
- Bachelor of Arts in Special Education
- Certificate in Community and Career Readiness Studies
- Certificate in Early Childhood Intervention Services
- Certificate in Habilitative Services
- Certificate in Inquiry-Based Early Childhood Education
- Certificate in Special Education Services

## Department Statement

Boise State University strives to develop knowledgeable educators who integrate complex roles and dispositions in the service of diverse communities of learners. Believing that all children, adolescents, and adults can learn, educators dedicate themselves to supporting that learning. Using effective approaches that promote high levels of student achievement, educators create environments that prepare learners to be citizens who contribute to a complex world. Educators serve diverse communities of learners as reflective practitioners, scholars and artists, problem solvers, and partners.

The Department of Early and Special Education at Boise State prepares teachers at the pre-service and in-service levels to more effectively serve all students from birth through 12th grade, with special emphasis on those students with disabilities. To this end the department has three specific goals.

The first of these is to enable all students who are preparing to be teachers to better understand, accept, appreciate, and meet the instructional needs of the diverse learners who are part of contemporary general education classrooms. To do this, the Early and Special Education faculty offer courses at both the undergraduate and graduate levels that provide an overview of exceptionality and special education programs to all education majors.

The second goal is to offer additional coursework in Early and Special Education to students who wish to gain additional professional knowledge, skills, and expertise in Early Childhood Intervention or Special Education.

The third and final goal is to prepare highly qualified early childhood interventionists and special educators who will move into specialized instructional roles in community and school settings. The Department of Early and Special Education offers five program options culminating in the BA in Early and Special Education degree. After completing the BA degree, students will also receive an institutional recommendation for teaching certification in the areas targeted in their specific degree option.

Students pursuing study in early childhood intervention or special education at the post-baccalaureate level should consult the *Boise State University Graduate Catalog*. The Department of Early and Special Education offers graduate program options for students who wish to pursue a graduate degree concurrently with certification as well as for students who presently hold a teaching certification and wish to pursue advanced graduate study in Early Childhood Intervention or Special Education.

## Bachelor of Arts Degrees in Early and Special Education Leading to State Teaching Certification

The Department of Early and Special Education offers five Bachelor of Arts degrees that result in an institutional recommendation for Idaho teaching certification in addition to the degree: a) Blended Early Childhood/Early Childhood Special Education, b) Dual Blended Early Childhood/Early Childhood Special Education, Elementary Education, c) Dual Special Education, Early Childhood Special Education, d) Dual Special Education, Elementary Education, and e) Special Education. Each of these degrees that leads to state teaching certification in one or more areas requires admission at two points in time during the program. Admission requirements are outlined in the following section.

## Admission Requirements

See the the Department of Curriculum, Instruction, and Foundational Studies section of this chapter for complete requirements toward:

- admission to Teacher Education,
- admission to Professional Year, and
- Certification requirements.

## EARLY AND SPECIAL EDUCATION

### Degree Requirements

| Dual Blended Early Childhood/Early Childhood Special Education, Elementary Education Bachelor of Arts                  |                |
|--|----------------|
| <i>Course Number and Title</i>   | <i>Credits</i> |
| UF 100 Foundations of Intellectual Life  | 3              |
| UF 200 Foundations of Ethics and Diversity   | 3              |
| FW ENGL 101 Writing and Rhetoric I   | 3              |
| FW ENGL 102 Writing and Rhetoric II  | 3              |
| FC Foundations of Oral Communication   | 3              |
| FM MATH 257 Geometry and Measurement for Teachers  | 4              |
| FN Foundations of Natural, Physical, & Applied Sciences course with lab  | 4              |
| FN Foundations of Natural, Physical, & Applied Sciences course in a second field                                       | 3-4            |
| FA Foundations of Arts course  | 3              |
| FH Foundations of Humanities course (ASL 101 recommended)  | 3-4            |
| FS ED-CIFS 201 Education, Schooling, and Society   | 3              |
| FS HIST 111 or HIST 112 United States History I, II  | 3              |
| ED-CIFS 331 Elementary Mathematics Curriculum & Instruction  | 3              |
| ED-CIFS 333 Elementary Science Curriculum & Instruction  | 3              |
| ED-CIFS 430 Fundamental Frameworks for Supporting Teaching & Learning  | 4              |
| ED-CIFS 459 Teaching Experience in Elementary Education  | 8              |
| ED-ESP 221 Foundations of Professional Practice: ECE/ECSE  | 3              |
| ED-ESP 223 Child Growth and Development  | 3              |
| ED-ESP 250 Exceptionality in the Schools   | 3              |
| ED-ESP 255 Educational and Assistive Technology  | 3              |
| ED-ESP 260 Special Education Policies and Procedures   | 3              |
| ED-ESP 321 Family and Community Relations: ECE/ECSE  | 3              |
| ED-ESP 322 Inclusive Methods: ECE/ECSE   | 3              |
| ED-ESP 326 Natural Environments, Birth to Three: ECE/ECSE  | 3              |
| ED-ESP 327 EI/ECSE Assessment  | 3              |
| ED-ESP 328 Intervention Methods: ECE/ECSE  | 3              |
| ED-ESP 329 Behavior Support in Early Childhood   | 3              |
| ED-ESP 463 Teaching Experience in Preschool Programs   | 8              |
| FF ED-ESP 470 Teaching and Reflection  | 1              |
| ED-LLC 200 Cultural Diversity in the School  | 3              |
| ED-LLC 300 Foundations of Linguistics and Language Acquisition   | 3              |
| ED-LLC 340 Idaho Comprehensive Literacy  | 4              |
| ED-LLC 345 Writing Processes, Instruction, and Assessment: K-8   | 3              |
| ED-LLC 442 Integrated Disciplinary Literacy in the Social Sciences   | 3              |
| KINES 305 Adapted Physical Education (recommended) or KINES 355 Elementary School Health & PE Curriculum & Instruction | 3              |
| MATH 157 Number and Operations for Teachers  | 4              |
| <b>Total</b>   | <b>121-123</b> |

The Dual Blended Early Childhood/Early Childhood Special Education, Elementary Education degree results in an institutional recommendation for both the Blended Early Childhood Education/Early Childhood Special Education, Birth to 3rd Grade Certification and the K-8 Elementary Education Certification.

| Dual Special Education, Early Childhood Special Education Bachelor of Arts                              |                |
|---|----------------|
| <i>Course Number and Title</i>  | <i>Credits</i> |
| UF 100 Foundations of Intellectual Life   | 3              |
| UF 200 Foundations of Ethics and Diversity  | 3              |
| FW ENGL 101 Writing and Rhetoric I  | 3              |
| FW ENGL 102 Writing and Rhetoric II   | 3              |
| FC Foundations of Oral Communication  | 3              |
| FM MATH 257 Geometry and Measurement for Teachers   | 4              |
| FN Foundations of Natural, Physical, & Applied Sciences course with lab                                 | 4              |
| FN Foundations of Natural, Physical, & Applied Sciences course in a second field                        | 3-4            |
| FA Foundations of Arts course   | 3              |
| FH Foundations of Humanities course (ASL 101 recommended)   | 3-4            |
| FS ED-CIFS 201 Education, Schooling, and Society  | 3              |
| FS HIST 111 or HIST 112 United States History I, II   | 3              |
| ED-ESP 221 Foundations of Professional Practice: ECE/ECSE   | 3              |
| ED-ESP 223 Child Growth and Development   | 3              |
| ED-ESP 250 Exceptionality in the Schools  | 3              |
| ED-ESP 255 Educational and Assistive Technology   | 3              |
| ED-ESP 260 Special Education Policies and Procedures  | 3              |
| ED-ESP 321 Family and Community Relations: ECE/ECSE   | 3              |
| ED-ESP 322 Inclusive Methods: ECE/ECSE  | 3              |
| ED-ESP 327 EI/ECSE Assessment   | 3              |
| ED-ESP 328 Intervention Methods: ECE/ECSE   | 3              |
| ED-ESP 329 Behavior Support in Early Childhood or ED-ESP 345 Positive Behavior Intervention and Support | 3              |
| ED-ESP 330 Assessment for Instructional Decision-Making   | 3              |
| ED-ESP 332 Language Arts for Students with Disabilities   | 3              |
| ED-ESP 333 Mathematics for Students with Disabilities   | 3              |
| ED-ESP 358 Students with Significant Disabilities   | 3              |
| ED-ESP 460 Special Education at the Secondary Level   | 3              |
| ED-ESP 463 Teaching Experience in Preschool Programs  | 8              |
| ED-ESP 466 Reflective Practices in Teaching   | 1              |
| ED-ESP 467 Teaching Experience in Special Education   | 12             |
| FF ED-ESP 470 Teaching and Reflection   | 1              |
| ED-LLC 200 Cultural Diversity in the School   | 3              |
| ED-LLC 300 Foundations of Linguistics and Language Acquisition  | 3              |
| ED-LLC 340 Idaho Comprehensive Literacy   | 4              |
| ED-LLC 442 Integrated Disciplinary Literacy in the Social Sciences                                      | 3              |
| MATH 157 Number and Operations for Teachers   | 4              |
| <b>Total</b>  | <b>122-124</b> |

The Dual Special Education, Early Childhood Special Education degree results in an institutional recommendation for the K-12 Idaho Generalist Endorsement on the Standard Exceptional Child Certificate as well as the Early Childhood Special Education (ECSE: Pre-K-3) Endorsement.



| Dual Special Education, Elementary Education Bachelor of Arts   |                |
|---|----------------|
| <i>Course Number and Title</i>  | <i>Credits</i> |
| University Foundations requirements indicated in bold. See page 48 for details and lists of approved courses.   |                |
| <b>UF 100</b> Foundations of Intellectual Life  | 3              |
| <b>UF 200</b> Foundations of Ethics and Diversity   | 3              |
| <b>FW ENGL 101</b> Writing and Rhetoric I   | 3              |
| <b>FW ENGL 102</b> Writing and Rhetoric II  | 3              |
| <b>FC</b> Foundations of Oral Communication   | 3              |
| <b>FM MATH 257</b> Geometry and Measurement for Teachers  | 4              |
| <b>FN</b> Foundations of Natural, Physical, & Applied Sciences course with lab  | 4              |
| <b>FN</b> Foundations of Natural, Physical, & Applied Sciences course in a second field   | 3-4            |
| <b>FA</b> Foundations of Arts course  | 3              |
| <b>FH</b> Foundations of Humanities course (ASL 101 recommended)  | 3-4            |
| <b>FS ED-CIFS 201</b> Education, Schooling, and Society   | 3              |
| <b>FS HIST 111</b> or <b>HIST 112</b> United States History I, II   | 3              |
| ED-CIFS 203 Child and Educational Psychology  | 3              |
| ED-CIFS 331 Elementary Mathematics Curriculum & Inst  | 3              |
| ED-CIFS 333 Elementary Science Curriculum & Instruction   | 3              |
| ED-CIFS 430 Fundamental Frameworks for Supporting Teaching & Learning   | 4              |
| ED-CIFS 459 Teaching Experience in Elementary Education   | 8              |
| ED-ESP 250 Exceptionality in the Schools  | 3              |
| ED-ESP 255 Educational and Assistive Technology   | 3              |
| ED-ESP 260 Special Education Policies and Procedures  | 3              |
| ED-ESP 330 Assessment for Instructional Decision-Making   | 3              |
| ED-ESP 332 Language Arts for Students with Disabilities   | 3              |
| ED-ESP 333 Mathematics for Students with Disabilities   | 3              |
| ED-ESP 345 Positive Behavior Intervention and Support   | 3              |
| ED-ESP 358 Students with Significant Disabilities   | 3              |
| ED-ESP 460 Special Education at the Secondary Level   | 3              |
| ED-ESP 467 Teaching Experience in Special Education   | 12             |
| <b>FF ED-ESP 470</b> Teaching and Reflection  | 1              |
| ED-LLC 200 Cultural Diversity in the School   | 3              |
| ED-LLC 300 Foundations of Linguistics and Language Acquisition  | 3              |
| ED-LLC 340 Idaho Comprehensive Literacy   | 4              |
| ED-LLC 345 Writing Processes, Instruction, and Assessment: K-8  | 3              |
| ED-LLC 442 Integrated Disciplinary Literacy in the Social Sciences  | 3              |
| KINES 305 Adapted Physical Education (recommended) or<br>KINES 355 Elementary School Health & PE Curriculum & Instruction   | 3              |
| MATH 157 Number and Operations for Teachers   | 4              |
| <b>Total</b>  | 122-124        |
| The Dual Special Education, Elementary Education Certification degree results in an institutional recommendation for the K-8 Elementary Education Certification as well as the K-12 Idaho Generalist Endorsement on the Standard Exceptional Child Certificate. |                |

| Blended Early Childhood/Early Childhood Special Education Bachelor of Arts   |                |
|--|----------------|
| <i>Course Number and Title</i>   | <i>Credits</i> |
| University Foundations requirements indicated in bold. See page 48 for details and lists of approved courses.  |                |
| <b>UF 100</b> Foundations of Intellectual Life   | 3              |
| <b>UF 200</b> Foundations of Ethics and Diversity  | 3              |
| <b>FW ENGL 101</b> Writing and Rhetoric I  | 3              |
| <b>FW ENGL 102</b> Writing and Rhetoric II   | 3              |
| <b>FC</b> Foundations of Oral Communication  | 3              |
| <b>FM MATH 257</b> Geometry and Measurement for Teachers   | 4              |
| <b>FN</b> Foundations of Natural, Physical, & Applied Sciences course with lab   | 4              |
| <b>FN</b> Foundations of Natural, Physical, & Applied Sciences course in a second field  | 3-4            |
| <b>FA</b> Foundations of Arts course   | 3              |
| <b>FH</b> Foundations of Humanities course (ASL 101 recommended)   | 3-4            |
| <b>FS ED-CIFS 201</b> Education, Schooling, and Society  | 3              |
| <b>FS</b> Foundations of Social Sciences course in a second field  | 3              |
| ED-CIFS 331 Elementary Mathematics Curriculum & Inst   | 3              |
| ED-CIFS 333 Elementary Science Curriculum & Instruction  | 3              |
| ED-ESP 221 Foundations of Professional Practice: ECE/ECSE  | 3              |
| ED-ESP 223 Child Growth and Development  | 3              |
| ED-ESP 250 Exceptionality in the Schools   | 3              |
| ED-ESP 255 Educational and Assistive Technology  | 3              |
| ED-ESP 260 Special Education Policies and Procedures   | 3              |
| ED-ESP 321 Family and Community Relations: ECE/ECSE  | 3              |
| ED-ESP 322 Inclusive Methods: ECE/ECSE   | 3              |
| ED-ESP 326 Natural Environments, Birth to Three: ECE/ECSE  | 3              |
| ED-ESP 327 EI/ECSE Assessment  | 3              |
| ED-ESP 328 Intervention Methods: ECE/ECSE  | 3              |
| ED-ESP 329 Behavior Support in Early Childhood   | 3              |
| ED-ESP 461 Early Childhood Practicum   | 5              |
| ED-ESP 463 Teaching Experience in Preschool Programs   | 8              |
| ED-ESP 466 Reflective Practices in Teaching  | 1              |
| <b>FF ED-ESP 470</b> Teaching and Reflection   | 1              |
| ED-LLC 200 Cultural Diversity in the School  | 3              |
| ED-LLC 340 Idaho Comprehensive Literacy  | 4              |
| ED-LLC 442 Integrated Disciplinary Literacy in the Social Sciences   | 3              |
| MATH 157 Number and Operations for Teachers  | 4              |
| Electives to total 120   | 11-13          |
| <b>Total</b>   | 120            |
| The Blended Early Childhood/Early Childhood Special Education degree results in an institutional recommendation for the Idaho Blended Early Childhood/Early Childhood Special Education, Birth to 3rd Grade Certification. |                |

## EARLY AND SPECIAL EDUCATION

| Special Education Bachelor of Arts   |                |
|--|----------------|
| <i>Course Number and Title</i>   | <i>Credits</i> |
| University Foundations requirements indicated in bold. See page 48 for details and lists of approved courses.  |                |
| <b>UF 100</b> Foundations of Intellectual Life   | 3              |
| <b>UF 200</b> Foundations of Ethics and Diversity  | 3              |
| <b>FW ENGL 101</b> Writing and Rhetoric I  | 3              |
| <b>FW ENGL 102</b> Writing and Rhetoric II   | 3              |
| <b>FC</b> Foundations of Oral Communication  | 3              |
| <b>FM MATH 257</b> Geometry and Measurement for Teachers   | 4              |
| <b>FN</b> Foundations of Natural, Physical, & Applied Sciences course with lab   | 4              |
| <b>FN</b> Foundations of Natural, Physical, & Applied Sciences course in a second field  | 3-4            |
| <b>FA</b> Foundations of Arts course   | 3              |
| <b>FH</b> Foundations of Humanities course (ASL 101 recommended)   | 3-4            |
| <b>FS ED-CIFS 201</b> Education, Schooling, and Society  | 3              |
| <b>FS HIST 111</b> or <b>HIST 112</b> United States History I, II  | 3              |
| <b>ED-CIFS 203</b> Child and Educational Psychology or <b>ED-ESP 223</b> Child Growth and Development  | 3              |
| <b>ED-ESP 250</b> Exceptionality in the Schools  | 3              |
| <b>ED-ESP 255</b> Educational and Assistive Technology   | 3              |
| <b>ED-ESP 260</b> Special Education Policies and Procedures  | 3              |
| <b>ED-ESP 330</b> Assessment for Instructional Decision-Making   | 3              |
| <b>ED-ESP 332</b> Language Arts for Students with Disabilities   | 3              |
| <b>ED-ESP 333</b> Mathematics for Students with Disabilities   | 3              |
| <b>ED-ESP 345</b> Positive Behavior Intervention and Support   | 3              |
| <b>ED-ESP 358</b> Students with Significant Disabilities   | 3              |
| <b>ED-ESP 459</b> Special Education Practicum  | 5              |
| <b>ED-ESP 460</b> Special Education at the Secondary Level   | 3              |
| <b>ED-ESP 466</b> Reflective Practices in Teaching   | 1              |
| <b>ED-ESP 467</b> Teaching Experience in Special Education   | 12             |
| <b>FF ED-ESP 470</b> Teaching and Reflection   | 1              |
| <b>ED-LLC 200</b> Cultural Diversity in the School   | 3              |
| <b>ED-LLC 300</b> Foundations of Linguistics and Language Acquisition  | 3              |
| <b>ED-LLC 340</b> Idaho Comprehensive Literacy   | 4              |
| <b>ED-LLC 345</b> Writing Processes, Instruction, and Assessment: K-8  | 3              |
| <b>ED-LLC 442</b> Integrated Disciplinary Literacy in the Social Sciences  | 3              |
| <b>MATH 157</b> Number and Operations for Teachers   | 4              |
| Electives to total 120   | 11-13          |
| <b>Total</b>   | <b>120</b>     |
| The Special Education degree results in an institutional recommendation for the K-12 Idaho Generalist Endorsement on the Standard Exceptional Child Certificate. |                |

The Bachelor of Arts in Inclusive Early Childhood Education does not result in an institutional recommendation for Idaho teaching certification. This program prepares early childhood educators to work outside of the public school system in settings that do not require teaching certification. This degree requires admission at two points in time during the program: a) admission to upper-division Early and Special Education standing, and b) admission to Inclusive Early Childhood Education culminating experiences. Admission requirements are outlined under Certificate Requirements.

| Inclusive Early Childhood Education Bachelor of Arts  |                |
|---|----------------|
| <i>Course Number and Title</i>  | <i>Credits</i> |
| University Foundations requirements indicated in bold. See page 48 for details and lists of approved courses. |                |
| <b>UF 100</b> Foundations of Intellectual Life  | 3              |
| <b>UF 200</b> Foundations of Ethics and Diversity   | 3              |
| <b>FW ENGL 101</b> Writing and Rhetoric I   | 3              |
| <b>FW ENGL 102</b> Writing and Rhetoric II  | 3              |
| <b>FC</b> Foundations of Oral Communication   | 3              |
| <b>FM</b> Foundations of Mathematics course   | 3-4            |
| <b>FN</b> Foundations of Natural, Physical, & Applied Sciences course with lab                                | 4              |
| <b>FN</b> Foundations of Natural, Physical, & Applied Sciences course in a second field                       | 3-4            |
| <b>FA</b> Foundations of Arts course  | 3              |
| <b>FH</b> Foundations of Humanities course (ASL 101 recommended)  | 3-4            |
| <b>FS ED-ESP 223</b> Child Growth and Development   | 3              |
| <b>FS</b> Foundations of Social Sciences course in a second field   | 3              |
| <b>ED-ESP 221</b> Foundations of Professional Practice: ECE/ECSE  | 3              |
| <b>ED-ESP 321</b> Family and Community Relations: ECE/ECSE  | 3              |
| <b>ED-ESP 322</b> Inclusive Methods: ECE/ECSE   | 3              |
| <b>ED-ESP 326</b> Natural Environments, Birth to Three: ECE/ECSE  | 3              |
| <b>ED-ESP 327</b> EI/ECSE Assessment  | 3              |
| <b>ED-ESP 328</b> Intervention Methods: ECE/ECSE  | 3              |
| <b>ED-ESP 329</b> Behavior Support in Early Childhood   | 3              |
| <b>ED-ESP 360</b> Environments and Observation in Early Childhood   | 3              |
| <b>ED-ESP 361</b> Place-Based and Outdoor Education in Early Childhood  | 3              |
| <b>ED-ESP 362</b> Fieldwork in Early Childhood: Place-Based Education   | 3              |
| <b>ED-ESP 363</b> Inquiry-Based Learning in Early Childhood   | 3              |
| <b>ED-ESP 364</b> Fieldwork in Early Childhood: Inquiry-Based Learning  | 3              |
| <b>ED-ESP 365</b> Leadership and Advocacy in Early Childhood Education  | 3              |
| <b>ED-ESP 465</b> Culminating Field Experience in Early Childhood Education                                   | 9              |
| <b>ED-ESP 471</b> Proposal for Capstone Project   | 1              |
| <b>FF ED-ESP 472</b> Capstone for the BA in Inclusive Early Childhood Education                               | 2              |
| Electives to total 120  | 26-29          |
| <b>Total</b>  | <b>120</b>     |

## Certificate Requirements

The **Certificate in Early Childhood Intervention Services** is designed for individuals who have or are pursuing a degree in elementary education, special education, early childhood education, early childhood special education, speech pathology, general education, physical therapy, occupational therapy, social work or nursing and are interested in working with infants and toddlers (0-3) with developmental delays or disabilities in the home and community setting. Students completing this certificate may work at either the Department of Health and Welfare's Infant Toddler Program as a Developmental Specialist or for a developmental disability agency as a 0-3 Habilitative Interventionist. Habilitative Interventionists are primarily focused on teaching adaptive skills and supporting the development of pro-social behaviors. Developmental Specialists provide early intervention evidence based practices through consultation and education to families and caregivers by providing routine-based interventions in the child's natural environment (homes childcare, etc. ).

The **Certificate in Habilitative Services** is designed for individuals who have or are pursuing a degree in a human services field and are interested in working with children and adolescents (age 3-17) with diagnosed developmental disabilities in the home and community setting. Approved human service degrees include the following: counseling and guidance, psychology, nursing, education/special education, sociology, child development/human development, social work, therapeutic recreation, marriage and family therapy, occupational therapy, physical therapy, speech language pathology/communication disorders, art therapy, dance therapy, music therapy and behavioral sciences/ABA. **Students who do not have or are not pursuing a degree in a human services field will need to complete the Certificate in Special Education Services which includes all of the coursework for the Certificate in Habilitative Services with additional courses aligned with Habilitative Interventionist standards.**

Students who either a) complete the Certificate in Habilitative Services and have a degree in a human services field, or b) complete the Certificate in Special Education Services and have a bachelor's degree in any field will complete the coursework requirements to work for a developmental disability agency as a 3-17 Habilitative Interventionist teaching adaptive skills and supporting the development of pro-social behaviors. Interventionists work in the home and community setting focused on individual client goals including communication, social skills, self-management, self-help, and independence. In order to become a Habilitative Interventionist, individuals also need a minimum of one year supervised experience working with children with developmental disabilities which is typically provided by the hiring agency.

## Admission to Upper-division Early and Special Education Standing for Certificate Programs and Inclusive Early Childhood Education Bachelor of Arts Degree

The Department of Early and Special Education requires all early and special education certificate students and Inclusive Early Childhood Education Bachelor of Arts students to apply for admission to Upper-division Early and Special Education Standing. To be admitted to upper-division early and special education standing, a student must meet the following criteria prior to enrolling in 300-level and 400-level early and special education courses with the prerequisite of "upper-division early and special education standing." Early and special education certificate and Inclusive Early Childhood Education BA students enrolling in these upper-division early and special education courses without approved upper-division standing will be withdrawn administratively from the courses. Students enrolled in a degree-seeking program leading to state teaching certification will be required to follow procedures to be admitted to Teacher Education prior to enrolling in upper-division courses.

## Minimum Criteria for Admission to Upper-division Early and Special Education Standing

1. Admission to Boise State.
2. Completion of the following lower-division courses with a C or better in each course:
  - a. Certificate in Early Childhood Intervention Services, Certificate in Inquiry-Based Early Childhood Education, and Inclusive Early Childhood Education Bachelor of Arts: ED-ESP 221, and ED-ESP 223.
  - b. Certificate in Habilitative Services: ED-CIFS 203 or PSYC 441, and ED-ESP 223 or PSYC 309.
  - c. Certificate in Special Education Services: ED-CIFS 203 or PSYC 441, ED-ESP 223 or PSYC 309, and ED-ESP 250 or ED-ESP 350.
3. Minimum GPA of 3.0 or higher across required lower-division courses.
4. At least 36 credits (including coursework in progress at the time of application).
5. Submission of a completed application, including background check and current transcript.

## Admission to Inclusive Early Childhood Culminating Experiences

Students pursuing the Inclusive Early Childhood Education Bachelor of Arts must apply for admission to inclusive early childhood culminating experiences prior to completing ED-ESP 465, ED-ESP 471, and ED-ESP 472. To be admitted to inclusive early childhood culminating experiences, a student must meet the following criteria. Students enrolling in ED-ESP 465, ED-ESP 471, or ED-ESP 472 without approved inclusive early childhood culminating experiences standing will be withdrawn administratively from the courses. Students enrolled in a degree-seeking program leading to state teaching certification will be required to follow procedures to be admitted to Professional Year prior to enrolling in culminating experiences.

## Minimum Criteria for Admission to Inclusive Early Childhood Culminating Experiences

1. Application Package
2. Deadlines:
  - a. First Friday in February for admission to Inclusive Early Childhood Culminating Experiences for the fall semester
  - b. Third Friday in September for admission to Inclusive Early Childhood Culminating Experiences for the spring semester
  - c. A \$50 fee will be assessed to late and/or incomplete applications
3. Academic Requirements
  - a. Completion of all 200- and 300-level required ED-ESP courses with a grade of C or better in each course.
  - b. Minimum GPA of 3.0 or higher across required program courses.
4. Fingerprinting and background check.

| Early Childhood Intervention Services Certificate   |           |
|---|-----------|
| Course Number and Title   | Credits   |
| ED-ESP 221 Foundations of Professional Practice: ECE/ECSE                                     | 3         |
| ED-ESP 223 Child Growth and Development   | 3         |
| ED-ESP 321 Family and Community Relations: ECE/ECSE   | 3         |
| ED-ESP 322 Inclusive Methods: ECE/ECSE  | 3         |
| ED-ESP 326 Natural Environments, Birth to Three: ECE/ECSE                                     | 3         |
| ED-ESP 327 EI/ECSE Assessment   | 3         |
| ED-ESP 328 Intervention Methods: ECE/ECSE   | 3         |
| ED-ESP 329 Behavior Support in Early Childhood  | 3         |
| <b>Total</b>  | <b>24</b> |
| The certificate will be awarded following completion of an associate or baccalaureate degree. |           |

## EARLY AND SPECIAL EDUCATION

| Habilitative Services Certificate   |                |
|---|----------------|
| <i>Course Number and Title</i>  | <i>Credits</i> |
| ED-CIFS 203 Child and Educational Psychology or PSYC 441 Learning                                       | 3              |
| ED-ESP 223 Child Growth and Development or PSYC 309 Child Development                                   | 3              |
| ED-ESP 329 Behavior Support in Early Childhood or ED-ESP 345 Positive Behavior Intervention and Support | 3              |
| <b>Total</b>  | <b>9</b>       |
| The certificate will be awarded following completion of an associate or baccalaureate degree.           |                |

| Inquiry-Based Early Childhood Education Certificate   |                |
|---|----------------|
| <i>Course Number and Title</i>  | <i>Credits</i> |
| ED-ESP 221 Foundations of Professional Practice: ECE/ECSE                                     | 3              |
| ED-ESP 223 Child Growth and Development   | 3              |
| ED-ESP 360 Environments and Observation in Early Childhood                                    | 3              |
| ED-ESP 361 Place-Based and Outdoor Education in Early Childhood                               | 3              |
| ED-ESP 362 Fieldwork in Early Childhood: Place-Based Education                                | 3              |
| ED-ESP 363 Inquiry-Based Learning in Early Childhood  | 3              |
| ED-ESP 364 Fieldwork in Early Childhood: Inquiry-Based Learning                               | 3              |
| ED-ESP 365 Leadership and Advocacy in Early Childhood Education                               | 3              |
| <b>Total</b>  | <b>24</b>      |
| The certificate will be awarded following completion of an associate or baccalaureate degree. |                |

| Special Education Services Certificate  |                |
|---|----------------|
| <i>Course Number and Title</i>  | <i>Credits</i> |
| ED-CIFS 203 Child and Educational Psychology or PSYC 441 Learning   | 3              |
| ED-ESP 223 Child Growth and Development or PSYC 309 Child Development   | 3              |
| ED-ESP 321 Family and Community Relations: ECE/ECSE   | 3              |
| ED-ESP 330 Assessment for Instructional Decision-Making   | 3              |
| ED-ESP 345 Positive Behavior Intervention and Support   | 3              |
| ED-ESP 250 Exceptionality in the Schools or ED-ESP 350 Teaching Students with Exceptional Needs at the Secondary Level  | 3              |
| ED-ESP 358 Students with Significant Disabilities   | 3              |
| ED-ESP 458 Autism Spectrum Disorder   | 3              |
| Electives from any of the following areas: a) early and special education, b) curriculum, instruction and foundational studies, c) language, literacy and culture, d) counseling, e) psychology, f) nursing, g) sociology, or h) social work. | 1              |
| <b>Total</b>  | <b>25</b>      |
| The certificate will be awarded following completion of an associate or baccalaureate degree.   |                |

### General Information

The Community and Career Readiness Studies (CCRS) Certificate is earned by students participating in the Providing Exceptional Education and Raising Standards (PEERS) Program. The PEERS Program is an inclusive, two year postsecondary education program for students with intellectual disabilities at Boise State University. Students in the PEERS Program are enrolled in Boise State University coursework, taking PEERS specific courses pass/fail, as well as Boise State University courses for credit or as audit (depending on individual student goals). Required coursework includes paid or unpaid job experiences, on or off campus, for at least 6 hours per week during students' second through fourth semesters. Students in the PEERS Program may be Idaho residents or nonresidents.

### Application Deadline

Submit application and admission materials well in advance to ensure that the application is complete by the deadline:

- January 1st (fall admission only)

### Admission Requirements

Applicants are required to have completed high school (i.e., 12th grade) and earned a diploma, certificate of completion, certificate of attendance, etc. or another credential which recognizes the student successfully participated in K-12 education. A prospective student may apply at any time, though students can only begin the program in the fall semester. Students, and their families, are encouraged to reach out to PEERS Program staff early in the student's transition process to discuss questions regarding admissions. Students will complete a PEERS Program application and provide a personal statement regarding their postsecondary goals and why they think the PEERS Program will help them achieve their goals. Students, and their parents/guardians if applicable, will also participate in an interview with PEERS Program staff.

Admission to the program is based on:

- Student being 18 years of age or older
- Student meeting the statutory definition and criteria for "intellectual disability" (ID)
- Student having had experience in work environments (i.e., school-based, community-based, volunteer experiences, internships, etc.)
- Student having taken the SAT or ACT (a minimum score is not required)
- Responses within the application, personal statement, and interview which:
  - Demonstrate the student's interest in obtaining a postsecondary education
  - Define how obtaining a postsecondary education will help the student achieve their goals
  - State commitment to participating in two concurrent academic years of coursework and work experiences related to the student's goals
  - State commitment to maintaining integrated part-time employment during the student's final three semesters in the certificate program
  - Provides examples of how the student is developing skills for participating in their community and in the workforce
  - Provides examples of how the student has taken initiative in asking for help when necessary in order to be working toward their goals and to be as independent as possible
  - Describes why the student is interested in completing the certificate program at Boise State University

| Community and Career Readiness Studies Certificate  |         |
|---|---------|
| Course Number and Title                             | Credits |
| ED-ESP 100 Community & Career: Planning for Success | 3       |
| ED-ESP 120 Job Exploration                          | 3       |
| ED-ESP 121 Employment Practicum I                   | 3       |
| ED-ESP 122 Employment Practicum II                  | 3       |
| ED-ESP 123 Employment Practicum III                 | 3       |
| ED-ESP 130 Capstone: e-portfolio                    | 3       |
| UF 100 Intellectual Foundations                     | 3       |
| Approved electives                                  | 0-15    |
| Total   | 21-36   |

## Course Offerings

### ED-ESP—Early and Special Education

#### Lower Division

**ED-ESP 100 COMMUNITY AND CAREER: PLANNING FOR SUCCESS (3-0-3)(F).** Students begin to develop a personal academic plan for meeting their individualized goals. Goals will be identified, potential courses to take in future semesters will be explored, and students will receive peer and staff feedback for support in obtaining their goals. (Pass/Fail). PREREQ: Admission to Certificate in Community and Career Readiness Studies. COREQ: ED-ESP 120.

**ED-ESP 120 JOB EXPLORATION (3-0-3)(F).** Students explore and identify career interest and skills, develop a resume, practice interview skills and self-advocacy, and (with PEERS staff support) secure paid or unpaid employment for the following semester on or off campus. (Pass/Fail). PREREQ: Admission to Certificate in Community and Career Readiness Studies. COREQ: ED-ESP 100.

**ED-ESP 121 EMPLOYMENT PRACTICUM I (0-6-3)(S).** Students work in an inclusive employment setting for at least six hours per week. Employment may be paid or unpaid, on or off campus. Students' individual needs are supported via PEERS staff. (Pass/Fail). PREREQ: Admission to Certificate in Community and Career Readiness Studies, ED-ESP 100, ED-ESP 120.

**ED-ESP 122 EMPLOYMENT PRACTICUM II (0-6-3)(F).** Students work in an inclusive employment setting for at least six hours per week. Employment may be paid or unpaid, and off campus. Students' individual needs are supported via PEERS staff. An emphasis on learning to self-direct formal supports necessary for sustaining employment is included and students focus on using technology for scheduling, communication, and work-related tasks. (Pass/Fail). PREREQ: Admission to Certificate in Community and Career Readiness Studies, ED-ESP 121.

**ED-ESP 123 EMPLOYMENT PRACTICUM III (0-6-3)(S).** Students work in an inclusive employment setting for at least six hours per week. Employment is paid in most circumstances, and off campus. Students' individual needs are supported via PEERS staff. An emphasis on clearly stating accommodations needed and integrating job supports into work routines is included (Pass/Fail). PREREQ: Admission to Certificate in Community and Career Readiness Studies, ED-ESP 122. COREQ: ED-ESP 130.

**ED-ESP 130 CAPSTONE: E-PORTFOLIO (3-0-3)(S).** Students design and develop an e-portfolio to share with potential employers. The development of the e-portfolio includes self-assessment of individualized goals and reflection on students' learning and growth in the PEERS program. Students give a closed or public presentation of their e-portfolio depending on students' individualized goals. Public presentations will be encouraged. (Pass/Fail). PREREQ: Admission to Certificate in Community and Career Readiness Studies, PERM/INST. COREQ: ED-ESP 123.

**ED-ESP 221 FOUNDATIONS OF PROFESSIONAL PRACTICES: ECE/ECSE (3-0-3)(F).** Principles and practices of early childhood education/early childhood special education. Developmentally appropriate practices in the

teaching/learning process of young children with and without special needs, in natural learning environments.

**ED-ESP 223 CHILD GROWTH AND DEVELOPMENT (3-0-3)(S)(FS).** Growth and development from birth through eighth grade, addressing physical, cognitive, communication, adaptive, social, and emotional domains. Emphasis on the role of the families as well as individual differences in the study of human development. Includes applied assignments and experiences.

**ED-ESP 250 EXCEPTIONALITY IN THE SCHOOLS (3-0-3)(F, S).** An overview of student ability and disability in the schools, including characteristics of students with disabilities, legal requirements for educating students with disabilities, and basic educational strategies.

**ED-ESP 255 EDUCATIONAL AND ASSISTIVE TECHNOLOGY (3-0-3)(S).** Educational and assistive technology applications aligned with Universal Design for Learning (UDL) principles to support all learners; assistive, adaptive, and rehabilitative devices and technologies, including Augmentative Alternative Communication (AAC) for individualized supports and instruction. PRE/COREQ: ED-ESP 250 or ED-ESP 350 or PERM/INST.

**ED-ESP 260 SPECIAL EDUCATION POLICIES AND PROCEDURES (3-0-3)(F).** Legal and procedural guidelines and practices in special education service delivery in current federal and state legislation, Individualized Education Programs, issues of culture and diversity, and professional collaboration. PRE/COREQ: ED-ESP 250 or ED-ESP 350 or PERM/INST.

#### Upper Division

**ED-ESP 321 FAMILY AND COMMUNITY RELATIONS: ECE/ECSE (2-2-3)(F).** Partnering with families of young children, both typically and atypically developing. Family systems theory, roles and functions of special service colleagues and community resources. 30 hours of fieldwork required. PREREQ: Admission to Teacher Education or upper-division early and special education standing or upper-division College of Education standing or declared family studies minor or PERM/INST.

**ED-ESP 322 INCLUSIVE METHODS: ECE/ECSE (2-3-3)(F).** Application of a linked system of assessment, goal development, intervention and evaluation. Focus on implementation of developmentally appropriate practice in inclusive environments. Weekly classroom fieldwork required. PREREQ: Admission to Teacher Education or upper-division early and special education standing or upper-division college of education standing or PERM/INST.

**ED-ESP 326 NATURAL ENVIRONMENTS, BIRTH TO THREE: ECE/ECSE (3-0-3)(F, S).** Development of infants, both typically developing and those with delays and disabilities. Focus on attachment processes, learning in naturalistic environments, and communication with families. A minimum of 20 hours of fieldwork is required in specific early intervention agency settings. PREREQ: Admission to Professional Year or upper-division early and special education standing or upper-division college of education standing or PERM/INST.

**ED-ESP 327 EI/ECSE ASSESSMENT (3-0-3)(S).** Assessment of infants and young children ages birth to eight, both typically and atypically developing. Concepts of assessment and direct experience with both formal and informal assessments. PREREQ: Admission to Teacher Education or upper-division early and special education standing or upper-division college of education standing or PERM/INST. COREQ: ED-ESP 328.

**ED-ESP 328 INTERVENTION METHODS: ECE/ECSE (2-3-3)(S).** Application of a linked system of assessment, goal development, intervention and evaluation. Focus on implementation of evidence-based targeted and individualized instructional supports for children with diverse needs. Weekly classroom fieldwork required. PREREQ: Admission to Teacher Education or upper-division early and special education standing or upper-division college of education standing or PERM/INST. COREQ: ED-ESP 327.

**ED-ESP 329 BEHAVIOR SUPPORT IN EARLY CHILDHOOD (3-0-3)(S).** Application of behavior support for young children and their families. Focus on implementing positive, preventive, and function-based interventions in school, home, and community environments. PREREQ: Admission to Teacher Education

## EARLY AND SPECIAL EDUCATION

or upper-division early and special education standing or upper-division college of education standing or PERM/INST.

**ED-ESP 330 ASSESSMENT FOR INSTRUCTIONAL DECISION-MAKING (3-0-3)(S).** Assessment procedures for making data-based instructional decisions; differences, strengths, and weaknesses of norm- and criterion-referenced tests; and the purpose of standardization are reviewed. Included is an emphasis on the alignment between curriculum, instruction, and assessment for identifying instructional needs and supports of students with disabilities. Issues regarding bias, discrimination, and disproportionality are discussed. PREREQ: Admission to Teacher Education or upper-division early and special education standing or upper-division College of Education standing or PERM/INST.

**ED-ESP 332 LANGUAGE ARTS FOR STUDENTS WITH DISABILITIES (2-3-3)(S).** Research-based explicit instruction in reading and writing for students with disabilities. Response to Intervention (RTI) and integrated formative assessment and interventions in language arts. Fieldwork required. PREREQ: Admission to Teacher Education or upper-division College of Education standing or PERM/INST.

**ED-ESP 333 MATHEMATICS FOR STUDENTS WITH DISABILITIES (2-3-3)(F).** Research-based explicit instruction in mathematics for students with disabilities. Response to Intervention (RTI) and integrated formative assessment and interventions in mathematics. Fieldwork required. PREREQ: Admission to Teacher Education or upper-division College of Education standing or PERM/INST.

**ED-ESP 345 POSITIVE BEHAVIOR INTERVENTION AND SUPPORT (3-0-3)(S).** Development of research-based positive behavioral interventions and supports for students with behavioral/emotional disabilities, including functional and applied behavioral analysis. PREREQ: Admission to Teacher Education or upper-division early and special education standing or upper-division College of Education standing or PERM/INST.

**ED-ESP 350 TEACHING STUDENTS WITH EXCEPTIONAL NEEDS AT THE SECONDARY LEVEL (3-0-3)(F, S).** Characteristics of students from common areas of exceptionality, relevant litigation and legislation, assessment techniques, instructional strategies, and collaboration. PREREQ: Admission to Secondary Education or declared Special Education Services Certificate or PERM/INST. COREQ: ED-CIFS 301 (except for art education and world language secondary education majors) and ED-CIFS 302 (except for world language secondary education majors) or declared Special Education Services Certificate or PERM/INST.

**ED-ESP 358 STUDENTS WITH SIGNIFICANT DISABILITIES (3-0-3)(F).** Development of individualized curricula and instruction for students with significant disabilities or students who require individualized supports in specialized and inclusive education settings. PREREQ: Admission to Teacher Education or upper-division early and special education standing or upper-division College of Education standing or PERM/INST.

**ED-ESP 360 ENVIRONMENTS AND OBSERVATION IN EARLY CHILDHOOD (3-0-3)(F)(odd years).** Exploration of quality indoor and outdoor learning environments, emphasizing the roles of children's learning, adult engagement, and the environment as the third teacher. Focus on the integral role that observation plays in assessing children's interests and understanding in order to intentionally design environments that provoke wonder, exploration, collaboration, and hands-on learning. Students will also learn about and apply documentation design to make children's learning visible. PREREQ: Admission to upper-division early and special education standing or PERM/INST.

**ED-ESP 361 PLACE-BASED AND OUTDOOR EDUCATION IN EARLY CHILDHOOD (3-0-3)(S)(even years).** Exploration of the role of place in young children's development. Students will explore opportunities to use surrounding landscapes and communities to educate the whole child by integrating cognitive, social and motor development in the context of place. Focus on outdoor, inquiry-based learning with all young children. PREREQ: Admission to upper-division early and special education standing or PERM/INST. COREQ: ED-ESP 362.

**ED-ESP 362 FIELDWORK IN EARLY CHILDHOOD: PLACE-BASED EDUCATION (0-11-3)(S)(even years).** Weekly applied fieldwork in an early childhood setting. Emphasis on implementation of place-based education principles and practices. (Pass/Fail.) PREREQ: Admission to upper-division early and special education standing or PERM/INST. COREQ: ED-ESP 361.

**ED-ESP 363 INQUIRY-BASED LEARNING IN EARLY CHILDHOOD (3-0-3)(F)(even years).** Examines the role of play and inquiry in all young children's lives, their learning and development. Focus on curiosity and wonder in guiding early STEAM (science, technology, engineering, arts, and mathematics) learning. Emphasis will be placed on utilizing children's interests to engage in an iterative design thinking process that encourages children to ask questions, test theories and synthesize big ideas. PREREQ: Admission to upper-division early and special education standing or PERM/INST. COREQ: ED-ESP 364.

**ED-ESP 364 FIELDWORK IN EARLY CHILDHOOD: INQUIRY-BASED LEARNING (0-11-3)(F)(even years).** Weekly applied fieldwork in an early childhood setting. Emphasis on implementation of inquiry-based learning practices. PREREQ: Admission to upper-division early and special education standing or PERM/INST. COREQ: ED-ESP 363.

**ED-ESP 365 LEADERSHIP AND ADVOCACY IN EARLY CHILDHOOD EDUCATION (3-0-3)(S)(odd years).** Examines current topics related to leadership and advocacy in the delivery of inclusive, inquiry-based early childhood education. This course explores leadership as a means of inspiring, guiding and effecting change. Students will be introduced to Action Research methodology. Action research or advocacy project required. PREREQ: Admission to upper-division early and special education standing; and ED-ESP 221; and ED-ESP 223; and ED-ESP 360 or ED-ESP 361 or ED-ESP 363.

**ED-ESP 458 AUTISM SPECTRUM DISORDER (3-0-3)(F)(Intermittently).** Contemporary perspectives on Autism Spectrum Disorder, including historical context, definitions, identification, characteristics, and social and educational interventions and services.

**ED-ESP 459 SPECIAL EDUCATION PRACTICUM (number of credits varies)(F/S).** Special education classroom experience for students pursuing an endorsement or certification in special education. Responsibilities in a K-12 classroom with students with disabilities including instructional planning, progress monitoring, and school-wide academic and behavioral interventions. (Pass/Fail). PREREQ: Admission to Professional Year.

**ED-ESP 460 SPECIAL EDUCATION AT THE SECONDARY LEVEL (3-0-3)(F).** Development of curricular and instructional adaptations and accommodations for adolescents with disabilities in secondary programs, including transition and vocational planning. PREREQ: Admission to Teacher Education or upper-division early and special education standing or upper-division College of Education standing or PERM/INST.

**ED-ESP 461 EARLY CHILDHOOD PRACTICUM (V-V-V)(F/S).** Early childhood classroom experience for students pursuing an endorsement or certification in Blended Early Childhood Education/Early Childhood Special Education. Responsibilities in an early childhood classroom including instructional planning, intervention, progress monitoring, and using data for decision-making. (Pass/Fail.) PREREQ: Admission to Professional Year.

**ED-ESP 463 TEACHING EXPERIENCE IN PRESCHOOL PROGRAMS: ECE/ECSE (V-V-V)(F, S).** Preschool teaching experience for students pursuing the ECE/ECSE blended certificate. Teaching responsibilities in programs for children with and without delays and disabilities with an emphasis on inclusive environments. Students will complete a teaching experience consistent with the calendars of the assigned partnership programs. If passed, may be repeated, maximum seven credits. (Pass/Fail.) PREREQ: Admission to Professional Year.

**ED-ESP 464 BIRTH TO THREE PRACTICUM (0-7-2)(F, S).** Infant/toddler program experience for students pursuing the Idaho Early Childhood/Early Childhood Special Education Blended certification or pursuing the Boise State Early Childhood Intervention Services Certificate. Responsibilities in a natural environment, center or home, for infants and toddlers with and without disabilities including family contact. A minimum of 20 hours of fieldwork is required in specific early intervention agency settings. (Pass/Fail. ) PREREQ: Admission to Professional Year or upper-division early and special education standing or PERM/INST. COREQ: ED-ESP 326.

**ED-ESP 465 CULMINATING FIELD EXPERIENCE IN EARLY CHILDHOOD EDUCATION(0-32-9)(F, S).** Final early childhood teaching experience for students completing the BA in Inclusive Early Childhood Education. Field experience requires demonstration of and reflection on the design of environments, observation, documentation, inquiry-based exploration, and connection to place. PREREQ: Admission to inclusive early childhood culminating experiences.

**ED-ESP 466 REFLECTIVE PRACTICES IN TEACHING (1-0-1)(F, S).** Supports professional discourse regarding best practices in special education with application toward responsibilities of the in-service special educator. Topics to include, but not limited to: collaboration with families and school team members; leadership in the special education classroom; advocacy through effective communication; increasing equity and inclusion in the school setting; and establishing an inquiry stance toward teaching and learning in special education. PREREQ: Admission into Professional Year.

**ED-ESP 467 TEACHING EXPERIENCE IN SPECIAL EDUCATION (credits varies)(F, S).** Teaching experience in a K-12 special education classroom for students pursuing an endorsement or certification in special education. Students will complete a teaching experience consistent with the calendars of the assigned partnership schools and degree program requirements. If passed, may be repeated, maximum twelve credits. (Pass/Fail. ) PREREQ: Admission to Professional Year.

**ED-ESP 470 TEACHING AND REFLECTION (0-3-1)(F, S)(FF).** A Professional Year capstone experience in which student teachers individually and collectively reflect upon issues in professional education emerging in student teaching and elsewhere. COREQ: ED-CIFS 459 or ED-ESP 463 or ED-ESP 467.

**ED-ESP 471 PROPOSAL FOR EARLY CHILDHOOD CAPSTONE PROJECT (1-0-1)(F, S).** Design and plan a personally and professionally relevant early childhood capstone project. PREREQ: Admission to inclusive early childhood culminating experiences. PRE/COREQ: ED-ESP 465. COREQ: ED-ESP 472.

**ED-ESP 472 EARLY CHILDHOOD CAPSTONE PROJECT (2-0-2)(F, S).** Finalize and present an approved early childhood capstone project and write a culminating self-reflection. PREREQ: Admission to inclusive early childhood culminating experiences. PRE/COREQ: ED-ESP 465. COREQ: ED-ESP 471.

## Department of Economics

*College of Business and Economics*

Micron Business and Economics Building, Room 3244

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<https://www.boisestate.edu/cobe-economics/> (website)

*Chair and Professor:* Christine Loucks. *Professors:* Black, Hansen, Loucks, Lowe. *Associate Professors:* Fragkias, Islam. *Assistant Professors:* Chen, Hu, Parton, Paudel. *Lecturers:* Giuntini, Walker.

### Degrees Offered

- Bachelor of Arts in Economics
- Bachelor of Arts in Economics, Quantitative Emphasis
- Bachelor of Arts in Economics, Social Science, Secondary Education
- Bachelor of Business Administration in Business Economics
- Bachelor of Science in Business and Economic Analytics (see Department of Information Technology and Supply Chain Management)
- Minor in Economics
- Minor in Sustainability

### Department Statement

Economists study how people and societies decide what goods and services to produce, how to allocate resources for production, and how to divide the income created in the process. Economics courses deal with national economic health, the behavior of industries and individual firms, and the decisions made by individuals in households and families.

Economics majors who plan to enter the job market immediately after college find the degree useful in obtaining jobs in management and other areas where training in systematic thinking and empirical analysis are valued. A degree in economics is excellent preparation for law school, for MBA programs, for teaching, or for graduate work in economics or other social sciences.

Boise State offers two paths to a degree in economics: 1) a bachelor of arts that includes economics and elective courses in social sciences or mathematics (quantitative option); 2) a bachelor of business administration that includes economics and standard business courses. You may also choose to pursue a bachelor of arts with an emphasis in social science, secondary education.

### Admission Requirements

Students interested in pursuing a degree in the College of Business and Economics (COBE), except for BA in Economics; BA in Quantitative Economics; BA in Economics, Social Science, Secondary Education Emphasis; and BS in Business and Economic Analytics, must be a pre-business major and complete the COBE admission requirements prior to the declaration of a major in a degree completion program. Admission to COBE is required before a student may enroll in most upper-division business and economics courses.

For details on the COBE admission requirements, see Pre-Business on page 268.

# ECONOMICS

## Degree Requirements

If you are planning on graduate study in economics or pursuing applied quantitative professional employment, you should consider a major in BA

Economics, Quantitative Emphasis.

| Business Economics<br>Bachelor of Business Administration   |                |
|---|----------------|
| <i>Course Number and Title</i>  | <i>Credits</i> |
| University Foundations requirements indicated in bold. See page 48 for details and lists of approved courses. |                |
| <b>UF 100</b> Foundations of Intellectual Life  | 3              |
| <b>UF 200</b> Foundations of Ethics and Diversity   | 3              |
| <b>FW ENGL 101</b> Writing and Rhetoric I   | 3              |
| <b>FW ENGL 102</b> Writing and Rhetoric II  | 3              |
| <b>FC</b> Foundations of Oral Communication   | 3              |
| <b>FM MATH 160</b> Survey of Calculus or<br><b>FM MATH 170</b> Calculus I                                     | 4              |
| <b>FN</b> Foundations of Natural, Physical, & Applied Sciences course with lab                                | 4              |
| <b>FN</b> Foundations of Natural, Physical, & Applied Sciences course in a second field                       | 3-4            |
| <b>FA</b> Foundations of Arts course  | 3              |
| <b>FH</b> Foundations of Humanities course  | 3-4            |
| <b>FS ECON 201</b> Principles of Macroeconomics   | 3              |
| <b>FS</b> Foundations of Social Sciences course in a second field   | 3              |
| ACCT 205 Introduction to Financial Accounting   | 3              |
| ACCT 206 Introduction to Managerial Accounting  | 3              |
| BUS 101 Business for the New Generation   | 3              |
| BUS 202 The Legal Environment of Business   | 3              |
| BUS 301 Leadership Skills   | 3              |
| <b>FF</b> BUS 450 Business Policies   | 3              |
| BUSCOM 201 Global Business Communication  | 3              |
| BUSSTAT 207 Introduction to Business Analytics or<br>MATH 254 Intro to Statistics                             | 3              |
| BUSSTAT 208 Business Analytics  | 3              |
| ECON 202 Principles of Microeconomics   | 3              |
| ECON 303 Intermediate Microeconomics  | 3              |
| ECON 305 Intermediate Macroeconomics  | 3              |
| ECON 341 Quantitative Methods in Economics  | 3              |
| ECON 342 Econometrics   | 4              |
| ECON 401 Research Project Seminar   | 2              |
| ECON 402 Capstone Seminar   | 1              |
| Upper-division economics electives  | 12             |
| FINAN 303 Principles of Finance   | 3              |
| CoBE Computer Placement Exam or<br>ITM 105 Spreadsheet Topics   | 0-2            |
| ITM 310 Business Intelligence   | 3              |
| MKTG 301 Principles of Marketing  | 3              |
| SCM 301 Principles of Supply Chain Management   | 3              |
| Electives to total 120 credits  | 8-12           |
| <b>Total</b>  | <b>120</b>     |

| Economics<br>Bachelor of Arts  |                |
|--|----------------|
| <i>Course Number and Title</i>   | <i>Credits</i> |
| University Foundations requirements indicated in bold. See page 48 for details and lists of approved courses.  |                |
| <b>UF 100</b> Foundations of Intellectual Life   | 3              |
| <b>UF 200</b> Foundations of Ethics and Diversity  | 3              |
| <b>FW ENGL 101</b> Writing and Rhetoric I  | 3              |
| <b>FW ENGL 102</b> Writing and Rhetoric II   | 3              |
| <b>FC</b> Foundations of Oral Communication  | 3              |
| <b>FM MATH 160</b> Survey of Calculus or<br><b>FM MATH 170</b> Calculus I  | 4              |
| <b>FN</b> Foundations of Natural, Physical, & Applied Sciences course with lab   | 4              |
| <b>FN</b> Foundations of Natural, Physical, & Applied Sciences course in a second field  | 3-4            |
| <b>FA</b> Foundations of Arts course   | 3              |
| <b>FH</b> Foundations of Humanities course   | 3-4            |
| <b>FS ECON 201</b> Principles of Macroeconomics  | 3              |
| <b>FS</b> Foundations of Social Sciences course in a second field  | 3              |
| Statistics sequence:<br>BUSSTAT 207 Introduction to Business Analytics or<br>MATH 254 Intro to Statistics and<br>BUSSTAT 208 Business Analytics<br>or<br>MATH 175 Calculus II and<br>MATH 361 Probability and Statistics I | 6-7            |
| ECON 202 Principles of Microeconomics  | 3              |
| ECON 303 Intermediate Microeconomics   | 3              |
| ECON 305 Intermediate Macroeconomics   | 3              |
| ECON 341 Quantitative Methods in Economics   | 3              |
| ECON 342 Econometrics  | 4              |
| ECON 401 Research Project Seminar  | 2              |
| <b>FF</b> ECON 402 Capstone Seminar  | 1              |
| Upper-division economics courses   | 12             |
| Upper-division mathematics, business, or environmental studies courses or social science courses selected from anthropology, geography, history, political science, psychology, and sociology.                             | 15             |
| Electives to total 120 credits   | 27-30          |
| <b>Total</b>   | <b>120</b>     |

| Economics, Quantitative Emphasis<br>Bachelor of Arts  |                |
|---|----------------|
| <i>Course Number and Title</i>  | <i>Credits</i> |
| University Foundations requirements indicated in bold. See page 48 for details and lists of approved courses. |                |
| <b>UF 100</b> Foundations of Intellectual Life  | 3              |
| <b>UF 200</b> Foundations of Ethics and Diversity   | 3              |
| <b>FW ENGL 101</b> Writing and Rhetoric I   | 3              |
| <b>FW ENGL 102</b> Writing and Rhetoric II  | 3              |
| <b>FC</b> Foundations of Oral Communication   | 3              |
| <b>FM MATH 170</b> Calculus I   | 4              |
| <b>FN</b> Foundations of Natural, Physical, & Applied Sciences course with lab                                | 4              |
| <b>FN</b> Foundations of Natural, Physical, & Applied Sciences course in a second field                       | 3-4            |



|   |       |
|---|-------|
| <b>FA</b> Foundations of Arts course                              | 3     |
| <b>FH</b> Foundations of Humanities course                        | 3-4   |
| <b>FS</b> ECON 201 Principles of Macroeconomics                   | 3     |
| <b>FS</b> Foundations of Social Sciences course in a second field | 3     |
| ECON 202 Principles of Microeconomics                             | 3     |
| ECON 303 Intermediate Microeconomics                              | 3     |
| ECON 305 Intermediate Macroeconomics                              | 3     |
| ECON 341 Quantitative Methods in Economics                        | 3     |
| ECON 342 Econometrics   | 4     |
| ECON 401 Research Project Seminar                                 | 2     |
| <b>FF</b> ECON 402 Capstone Seminar                               | 1     |
| Upper-division economics courses                                  | 12    |
| MATH 175 Calculus II  | 4     |
| MATH 275 Multivariable and Vector Calculus                        | 4     |
| MATH 301 Introduction to Linear Algebra                           | 3     |
| MATH 361 Probability and Statistics I                             | 3     |
| Upper-division mathematics electives                              | 6     |
| Electives to total 120 credits                                    | 29-31 |
| Total   | 120   |

### Economics, Social Science, Secondary Education Bachelor of Arts

| <i>Course Number and Title</i>  | <i>Credits</i> |
|---|----------------|
| University Foundations requirements indicated in bold. See page 48 for details and lists of approved courses. |                |
| <b>UF</b> 100 Foundations of Intellectual Life  | 3              |
| <b>UF</b> 200 Foundations of Ethics and Diversity   | 3              |
| <b>FW</b> ENGL 101 Writing and Rhetoric I   | 3              |
| <b>FW</b> ENGL 102 Writing and Rhetoric II  | 3              |
| <b>FC</b> Foundations of Oral Communication   | 3              |
| <b>FM</b> MATH 160 Survey of Calculus or<br><b>FM</b> MATH 170 Calculus I                                     | 4              |
| <b>FN</b> Foundations of Natural, Physical, & Applied Sciences course with lab                                | 4              |
| <b>FN</b> Foundations of Natural, Physical, & Applied Sciences course in a second field                       | 3-4            |
| <b>FA</b> Foundations of Arts course  | 3              |
| <b>FH</b> Foundations of Humanities course  | 3-4            |
| <b>FS</b> ECON 201 Principles of Macroeconomics   | 3              |
| <b>FS</b> ED-CIFS 201 Education, Schooling, and Society   | 3              |
| ECON 202 Principles of Microeconomics   | 3              |
| ECON 303 Intermediate Microeconomics  | 3              |
| ECON 305 Intermediate Macroeconomics  | 3              |
| ECON 341 Quantitative Methods in Economics  | 3              |
| ECON 342 Econometrics   | 4              |
| ECON 401 Research Project Seminar   | 2              |
| <b>FF</b> ECON 402 Capstone Seminar   | 1              |
| Upper-division economics electives  | 9              |

|   |         |
|---|---------|
| Statistics sequence:<br>BUSSTAT 207 Introduction to Business Analytics or<br>MATH 254 Intro to Statistics and<br>BUSSTAT 208 Business Analytics<br>or<br>MATH 175 Calculus II and<br>MATH 361 Probability and Statistics I  | 6-7     |
| EDTECH 202 Teaching and Learning in a Digital Age   | 3       |
| ED-CIFS 301* Teaching Experience I  | 2       |
| ED-CIFS 302* Learning and Instruction   | 4       |
| ED-CIFS 401* Professional Year-Teaching Experience II   | 3       |
| ED-CIFS 405* Teaching Secondary Social Studies  | 3       |
| ED-LLC 444* Content Literacy for Secondary Students   | 3       |
| ED-ESP 350* Teaching Students with Exceptional Needs at the Secondary Level   | 3       |
| Teaching Experience III/IV*   | 14      |
| *You must apply for admission to secondary teacher education to enroll in these upper-division education courses. Completion of all requirements for graduation with a secondary education option may require more than 120 credit hours. See Department of Curriculum, Instruction, and Foundational Studies for more information. |         |
| Social science field other than economics (history, political science, or sociology)  | 21      |
| Total   | 128-131 |

As an undergraduate student, you may earn a minor in economics by satisfying the requirements listed below, in addition to your major requirements.

### Economics Minor

| <i>Course Number and Title</i>        | <i>Credits</i> |
|---------------------------------------|----------------|
| ECON 201 Principles of Macroeconomics | 3              |
| ECON 202 Principles of Microeconomics | 3              |
| ECON 303 Intermediate Microeconomics  | 3              |
| ECON 305 Intermediate Macroeconomics  | 3              |
| Upper-division economics electives    | 9              |
| Total                                 | 21             |

### Economics Teaching Endorsement

| <i>Course Number and Title</i>  | <i>Credits</i> |
|---|----------------|
| ECON 201 Principles of Macroeconomics   | 3              |
| ECON 202 Principles of Microeconomics   | 3              |
| ECON 303 Intermediate Microeconomics  | 3              |
| ECON 305 Intermediate Macroeconomics  | 3              |
| Upper-division economics courses  | 9              |
| Total   | 21             |
| See Department of Curriculum, Instruction, and Foundational Studies for more information. |                |

## Course Offerings

### ECON—Economics

#### Lower Division

**ECON 201 PRINCIPLES OF MACROECONOMICS (3-0-3)(F, S, SU) (FS).** Economics principles are used to analyze the aggregate performance of developed economies. Analysis is applied to domestic and international macroeconomic issues. The goals and problems of high employment, price

## ECONOMICS

stability, growth, and the balance of payments are analyzed. Monetary, fiscal, and other national policies are discussed.

**ECON 202 PRINCIPLES OF MICROECONOMICS (3-0-3)(F, S, SU) (FS).** An introduction to microeconomic analysis covering supply and demand, basic market structures, the operations of the price system, and the distribution of income. Provides an introduction to some applied areas of economics such as international and regional economics, the public sector, and economic development.

### Upper Division

Upper-division courses in the Department of Economics (those with a course numbered 300 or higher) provide higher-level instruction to students who have the skills necessary to perform at this level. In addition to fulfilling the specific prerequisites listed and meeting the general university requirements for junior standing, every student admitted to a course is expected: to communicate clearly and correctly so that assignments such as term papers and presentations can be completed effectively, to organize and solve problems using the techniques of intermediate level high school algebra, to use a microcomputer for simple word processing and spreadsheet applications.

**ECON 301 MONEY AND BANKING (3-0-3)(S).** Analysis of the role of money, credit, and the financial system in the U.S. economy through the economics of commercial and central banking. Study of monetary theory and monetary policy as they affect both domestic and international economic policy goals. PREREQ: Admission to COBE or Economics BA major or Economics Minor, ECON 201 and ECON 202.

**ECON 303 INTERMEDIATE MICROECONOMICS (3-0-3)(F, S, SU).** An analysis of the price mechanism and its role in resource allocation, output composition, and income distribution. Topics include consumer choice and demand, theories of production and cost, and the economic performance of various market structures. The usefulness of price theory in the analysis of social problems and managerial decisions is stressed. PREREQ: Admission to COBE or Economics BA major or Business and Economic Analytics major or Economics minor, ECON 202 and MATH 160 or equivalent.

**ECON 305 INTERMEDIATE MACROECONOMICS (3-0-3)(F, S).** Analysis of the determinants of the level of national income, employment, productivity, and the price level. Analysis of the effects of economic policy instruments and decisions on aggregate economic performance goals. PREREQ: Admission to COBE or Economics BA major or Economics Minor, ECON 201.

**ECON 307 COST-BENEFIT ANALYSIS (3-0-3)(S/SU).** A comprehensive set of techniques and tools that are necessary for economic and business decision-making, and the economic evaluation of policies that are observed in a variety of public and private settings. Includes discounting, valuation techniques, and sensitivity analyses, contemporary cost-benefit case studies, and a required group cost-benefit analysis project drawn from a variety of disciplines relevant for both business and non-business degrees. PREREQ: ECON 201 or ECON 202.

**ECON 311 HISTORY OF ECONOMIC THOUGHT (3-0-3)(F).** Study of the origin and development of economic theories that have influenced western civilization. Particular attention will be given to the period since 1750. PREREQ: ECON 201 and ECON 202.

**ECON 315 (GLOBAL 303) GLOBAL ECONOMIC DEVELOPMENT (3-0-3) (S).** Economic development within the context of the global economy. Analysis of the sharp differences in economic development across the world. Different theories and applied methods to better understand the world's development problems such as growing inequality between nations and within nations, stagnation in developing countries, as well as the possible socioeconomic consequences of those problems. How political and economic institutions interact in creating poverty or prosperity, and why different parts of the world end up with different institutions. May be taken for ECON or GLOBAL credit, but not both. PREREQ: ECON 201.

**ECON 317 INTERNATIONAL ECONOMICS (3-0-3)(F, S).** The benefits and pattern of world trade and investment. Tariffs, quotas, and the commercial policies of nations. The foreign exchange market and the balance of payments. Consequences of balance-of-payments disequilibrium for national policy. The analysis of international

payments adjustment and the nature and institutions of international monetary systems. PREREQ: Admission to COBE or Global Studies major or Economics BA major or Economics minor, ECON 201 and ECON 202.

**ECON 325 HETERODOX POLITICAL ECONOMY (3-0-3)(F).** Introduction to alternatives to neoclassical positive economics and democratic-capitalist political economy. Consideration of Marxist, Austrian, Post-Keynesian, Feminist and Evolutionary as alternatives to how economies function and state socialism, syndicalism, anarcho-communism, mutualism, and individualist anarchism as alternatives to the question of how social relations should be organized. Topical coverage varies by semester. PREREQ: ECON 201 and ECON 202.

**ECON 327 LABOR ECONOMICS (3-0-3)(S).** Characteristics and structure of the U.S. labor force are examined and labor markets are analyzed to emphasize the micro- and macroeconomic factors affecting workplace decisions. Development of the U.S. industrial relations system is reviewed along with public policies, and these are contrasted with those of other western industrialized societies. PREREQ: ECON 201 and ECON 202.

**ECON 333 NATURAL RESOURCE ECONOMICS (3-0-3)(F, S).** The theoretical and policy issues associated with the use of natural resources are addressed, including property rights issues that arise when considering collective goods, externalities, and common property resources. Tools used in the design and evaluation of resource policy, such as benefit/cost analysis, are covered. PREREQ: ECON 202.

**ECON 341 QUANTITATIVE METHODS IN ECONOMICS (3-0-3)(F, S).** The first of a two-semester sequence in quantitative economic analysis. The course focuses on integrating quantitative methods with economic theory to critically analyze applied economic problems. Emphasis throughout is placed on developing communication skills critical to working as an applied economist. Topics will include equilibrium analysis, input-output analysis, comparative static analysis, optimization techniques, and dynamic analysis. PREREQ: ECON 201, ECON 202, and MATH 160 or MATH 170.

**ECON 342 ECONOMETRICS (4-0-4)(F, S).** The second of a two-semester sequence in quantitative economic analysis. This course emphasizes the application of statistics to the construction, estimation, and evaluation of econometric models. Other related topics will include history and methodology of econometrics, forecasting, computer application, and the use of econometrics in business and government. May be taken for graduate credit. PREREQ: Admission to COBE or Economics BA major or Business and Economic Analytics major or Economics minor, ECON 341, and BUSSTAT 207 or equivalent, or PERM/CHAIR.

**ECON 401 RESEARCH PROJECT SEMINAR (2-0-2)(F).** Capstone course that challenges students to conduct original research. Students will identify an applied research problem, gather data, and run preliminary analysis. Students will be discussing the practice of research design, data collection and challenges as well as the analysis of their data. Emphasis throughout is placed on developing communication skills critical to working as an applied economist. PREREQ: ENGL 102, ECON 341 and ECON 342, or PERM/CHAIR.

**ECON 402 CAPSTONE SEMINAR (1-0-1)(S)(FF).** Capstone course that implements the research project developed in ECON 401. In this course students will complete their analysis, "polish" their research paper, and formally present their results. PREREQ: ECON 401 or PERM/CHAIR.

**ECON 405 UNITED STATES ECONOMIC HISTORY (3-0-3)(F) (Intermittently).** Economic analysis is applied to important issues in the growth and development of the United States' economy from colonial times to the present. Specific topics vary but may include: the economics of colonization, the transatlantic slave trade, the record and sources of 19<sup>th</sup> century economic growth, the expansion of education, and the quantitative analysis of economic and social mobility. PREREQ: ECON 201 and ECON 202.

**ECON 410 (POLS 410) PUBLIC FINANCE (3-0-3)(S).** This course examines the roles of government and market systems in modern economies using the tools of economic analysis to evaluate major public policy decisions. The theory and rationale of government spending, taxing, and indebtedness will be examined, as well as the effects of government activity on resource allocation, income distribution, and economic efficiency. This course draws on the tools of microeconomic theory to develop analytical tools such as cost-benefit analysis to examine public spending projects. May be taken for either ECON or POLS credit, but not both. PREREQ: ECON 201 and ECON 202.

**ECON 431 REGIONAL ECONOMICS (3-0-3)(F).** Application of economic analysis to regional problems of structure, growth, and policy. Location theory, various growth models, and specific techniques such as input-output analysis, base multipliers, and cost/benefit analysis are developed. PREREQ: ECON 201 and ECON 202.

**ECON 432 URBAN ECONOMICS (3-0-3)(S).** Focus on the structure of the urban areas, locational patterns, housing, crime, pollution, poverty, financial, and transportation problems. Tools of economic analysis will be used to analyze the problems and existing and proposed policies. PREREQ: ECON 202.

**ECON 440 HEALTH ECONOMICS (3-0-3)(F).** Examines the economic issues associated with those individual and social decisions that influence the health of particular groups. Examines the production and delivery of health care and the economic and ethical aspects of health policy issues. Various economic approaches to the analysis of health policy are presented and evaluated. The focus is on the U.S. health care system. Comparisons will also be made to the health care systems of other nations. PREREQ: ECON 201 and ECON 202 or PERM/CHAIR.

**ECON 455 DECISIONS, CHOICES AND HAPPINESS IN BEHAVIORAL ECONOMICS (3-0-3)(F).** Discusses how psychological considerations can create “behavioral anomalies;” ways in which economists incorporate these anomalies into their theories; and the implications for market outcomes and public policies. The role of intangibles such as locational /environmental amenities / employment status on happiness, the implications of social and personal motives such as virtue ethics, altruism, status, procrastination, self-control, or image are also considered. PREREQ: ECON 202.

**ECON 465 MANAGERIAL ECONOMICS AND STRATEGY (3-0-3)(S).** Illustrates how to apply economic theory to business decision-making using actual examples and real data. Covers important empirical tools used by practicing managers in applied demand analysis such as linear and non-linear programming, sensitivity analysis, demand estimation and forecasting. Students learn to build mathematical models, solve constrained optimization problems, find and explore optimal solutions with spreadsheets. PREREQ: Admission to COBE or Economics BA major or Business and Economic Analytics major or Economics minor, ECON 202, MATH 160 or equivalent, and BUSSTAT 207 or equivalent.

**ECON 471 ECONOMIC GROWTH (3-0-3)(F)(On Demand).** Examines the question, “Why are some countries so rich while other countries are so poor?” Theoretical and empirical investigation considering factors that affect living standards such as population growth, physical capital and human capital accumulation, the state of technology, geography and the availability of natural resources, and culture and governmental policies. PREREQ: ECON 201 and ECON 202.

**ECON 474 SUSTAINABILITY AND ECONOMIC POLICY (3-0-3)(S).** Presents concepts, theories, data and empirical findings critical for analyzing sustainability problems and developing solutions in communities, cities, countries and regions. Explores how economics relates to the three pillars of sustainability: economic, social and environmental, emphasizing tradeoffs and synergies across the pillars. Following topics are covered: the meaning and history of sustainable development and the link between sustainability and well-being; sustainability indicators and metrics; natural resource (green) accounting; the valuation of biodiversity and ecosystem services; climate change; urbanization and sustainability; and business, international finance and sustainability. PREREQ: ECON 202.

**ECON 493 ECONOMICS INTERNSHIP (V-V)(F, S, SU).** Opportunity to apply economic principles in a business, nonprofit, government, or academic setting. (Pass/Fail.) PREREQ: Admission to COBE or Economics BA major or Economics Minor, ECON 303, ECON 305, BUSSTAT 207, and PERM/CHAIR.

## Department of Educational Technology

*College of Education*

Education Building, Room 331  
(208) 426-1966 (phone)  
(208) 426-1451 (fax)  
edtech@boisestate.edu (email)

*Department Head:* Brett E. Shelton. *Associate Chair:* Chareen Snelson. *Faculty:* Baek, Ching, Friesen, Haskell, Hsu, Hung, Lowenthal, Mesler, Perkins, Rice, Schroeder, Trespalacios, Uribe-Flórez, Yang.

### Department Statement

The department is a service department to undergraduate programs in elementary and secondary education. Our role is to provide undergraduates with both skills and instructional methods for using computer technology effectively in the teaching/learning process. Teacher education students experience how technologies are altering our society and the role they play in aiding instruction and fostering communication and performance.

### Course Offerings

#### EDTECH—Educational Technology

**EDTECH 117 LIFETIME ESPORTS (1-0-1)(F/S/SU).** Introduces and develops further knowledge in different types of modem, popular online competitive games. Emphasizes game mechanics, character and ability selection, current successful approaches, communication, and identifies concepts in lifetime of gaming activity.

**EDTECH 202 TEACHING AND LEARNING IN A DIGITAL AGE (3-0-3)(F, S, SU).** Standards, skills and strategies for integrating technology tools in the classroom and digital environments to support student engagement, creativity, digital citizenship and digital age learning experiences.

**EDTECH 203 FOUNDATIONS OF DIGITAL CULTURE (3-0-3)(F, S, SU)(FS).** Engages students in developing strategies for digital spaces. Develops 21<sup>st</sup> Century skills including creativity, critical thinking, digital communication and collaboration, information literacy, digital citizenship, and personal and social responsibilities.

# Department of Electrical and Computer Engineering

College of Engineering

Charles P. Ruch Engineering Building, Room 240  
 (208) 426-5788 (phone)  
 (208) 392-1614 (fax)  
 ece@boisestate.edu (email)  
<https://www.boisestate.edu/coen-ece/> (website)

*Chair and Associate Professor:* Nader Rafla. *Professors:* Barney Smith, Campbell, Loo, Mitkova, Welch. *Associate Professors:* Ahmed-Zaid, Browning, Cantley, Chen, Chiasson, Kuang, Mehrpouyan, Smith. *Assistant Professors:* Johnson, Kandadai, Salzman, Subbaraman. *Clinical Professor:* Higgins. *Lecturer:* Anderson.

## Degrees Offered

- Bachelor of Science in Electrical Engineering
  - Secondary Education Emphasis
- Minor in Electrical Engineering
- Certificate in Biomedical Instrumentation
- Certificate in Cyber Operations
- Certificate in Cyber-Physical Systems Security for All
- Certificate in Security in Cyber-Physical Systems—Hardware and Firmware Focus
- Certificate in Security in Cyber-Physical Systems—Industrial Control Focus
- Certificate in Security in Cyber-Physical Systems—Power Systems Focus
- Certificate in Security in Cyber-Physical Systems—Software Focus

## Department Statement

Today's electrical engineers must be able to find solutions to new complex technical problems. Electrical engineer must have strong people skills and be able to integrate technical concepts with those of management, public policy, safety, and environmental areas in a team setting.

Boise State University offers five major areas of concentration in the electrical engineering program:

- Devices and Processing
- Integrated Circuit Design
- Signals and Systems
- Computer Engineering
- Power Systems Engineering

The BS in Electrical Engineering program is accredited by the Engineering Accreditation Commission of ABET, <http://www.abet.org/>.

The Electrical Engineering, Secondary Education Emphasis combines content knowledge, theories of learning and human development, study of curriculum, and methodology to help students develop the knowledge, skills and dispositions essential for success in secondary school teaching. The program involves participation in the IDoTeach STEM-ED curriculum, which includes early and sustained field experiences for students. Candidates who complete the Secondary Education Emphasis program have demonstrated evidence of meeting the Idaho Beginning Teacher and Engineering Standards and are eligible for recommendation for state certification and an engineering endorsement for teaching.

Students wishing to pursue this degree plan must meet the requirements and standards for admission to teacher education, which are described fully under STEM Education IDoTeach STEM Teaching Certification or at <https://www.boisestate.edu/idoteach/>. Students must meet and maintain all knowledge, skill, and disposition requirements to remain in the program.

## Program Educational Objectives

Within a few years of graduation, electrical engineering graduates will be:

- Adept at applying the technical principles and practice of electrical engineering.
- Ethical individuals who exhibit strong interpersonal and professional skills.
- Engaged in their professional development and responsive to changes in electrical engineering practice.
- Committed to the advancement of society.

## Degree Requirements

| Electrical Engineering<br>Bachelor of Science  |         |
|--|---------|
| Course Number and Title  | Credits |
| University Foundations requirements indicated in bold. See page 48 for details and lists of approved courses.  |         |
| <b>UF 100</b> Foundations of Intellectual Life   | 3       |
| <b>UF 200</b> Foundations of Ethics and Diversity  | 3       |
| <b>FW ENGL 101</b> Writing and Rhetoric I  | 3       |
| <b>FW ENGL 102</b> Writing and Rhetoric II   | 3       |
| <b>FC</b> Foundations of Oral Communication  | 3       |
| <b>FM MATH 170</b> Calculus I  | 4       |
| <b>FN CHEM 111, 111L</b> General Chemistry I with Lab  | 4       |
| <b>FN PHYS 211, 211L</b> Physics I with Calculus & Lab   | 5       |
| <b>FA</b> Foundations of Arts course   | 3       |
| <b>FH</b> Foundations of Humanities course or<br><b>FH STEM-ED 220</b> Philosophical Perspectives on Science and Mathematics (Secondary Education Emphasis)    | 3-4     |
| <b>FS</b> Foundations of Social Sciences course  | 3       |
| <b>FS</b> Foundations of Social Sciences course in a second field or<br><b>FS ED-CIFS 201</b> Education, Schooling, and Society (Secondary Education Emphasis) | 3       |
| CS 121 Computer Science I and lab  | 4       |
| CS 221 Computer Science II   | 3       |
| ECE 180 Intro to Electrical & Computer Engineering   | 1       |
| ECE 210 Introduction to Electric Circuits  | 3       |
| ECE 212, 212L Circuit Analysis and Design and Lab  | 4       |
| ECE 230, 230L Digital Systems and Lab  | 4       |
| ECE 245 Introduction to Electronic Materials   | 1       |
| ECE 300 Electromagnetic and Wave Theory  | 3       |
| ECE 310, 310L Microelectronic Circuits and Lab   | 4       |
| ECE 330, 330L Microprocessors and Lab  | 4       |
| ECE 350, 350L Signals and Systems and Lab  | 4       |
| ECE 360 System Modeling and Control  | 3       |
| ECE 380, 380L Electrical Engineering Practice & Lab  | 3       |
| ECE 480 Senior Design Project I  | 3       |
| <b>FF ECE 482</b> Senior Design Project II   | 3       |
| ENGR 207 Technical Communication for Electrical Engineers  | 1       |
| MATH 175 Calculus II   | 4       |
| MATH 275 Multivariable and Vector Calculus   | 4       |
| MATH 333 Differential Equations with Matrix Theory   | 4       |
| MATH 360 Engineering Statistics or<br>MATH 361 Probability and Statistics I  | 3       |
| PHYS 212, 212L Physics II with Calculus & Lab  | 5       |

|  |                |
|--|----------------|
| Upper-division Electrical Engineering electives  | 12             |
| Technical electives or<br>STEM-ED 350 Research Methods (Secondary Education Emphasis) and<br>STEM-ED 410 Project-Based Instructions (Secondary Education Emphasis)             | 6              |
| In addition, complete the courses listed under the Secondary Education Emphasis below to graduate with a BS in Electrical Engineering with an emphasis in Secondary Education. |                |
| <b>Total</b>   | <b>126-127</b> |
| <b>Secondary Education Emphasis</b>  |                |
| STEM-ED 101 Step 1: Inquiry Approaches to Teaching   | 1              |
| STEM-ED 102 Step 2: Inquiry-Based Lesson Design  | 1              |
| STEM-ED 210 Knowing & Learning in Mathematics & Science  | 3              |
| STEM-ED 310 Classroom Interactions   | 3              |
| STEM-ED 480 Apprentice Teaching  | 6              |
| <b>Total</b>   | <b>140-141</b> |
| This emphasis also needs to complete ED-CIFS 201, STEM-ED 220 and STEM-ED 410.   |                |

| Electrical Engineering Minor  |                |
|---|----------------|
| <i>Course Number and Title</i>  | <i>Credits</i> |
| ECE 210 Introduction to Electric Circuits   | 3              |
| ECE 212, 212L Circuit Analysis and Design and Lab   | 4              |
| ECE 230, 230L Digital Systems and Lab   | 4              |
| Two (2) of the following:<br>ECE 300 Electromagnetic Theory<br>ECE 310, 310L Microelectronic Circuits and Lab<br>ECE 320 Semiconductor Devices<br>ECE 330, 330L Microprocessors and Lab<br>ECE 350, 350L Signals and Systems and Lab<br>ECE 360 System Modeling and Control | 6-8            |
| Upper-division Electrical and Computer Engineering courses  | 3-4            |
| <b>Total</b>  | <b>20-23</b>   |

| Biomedical Instrumentation Certificate   |                |
|--|----------------|
| <i>Course Number and Title</i>   | <i>Credits</i> |
| ME 112 Introduction to Biomedical Engineering  | 1              |
| ECE 412 Biomedical Instrumentation & Brain-Machine Interfaces  | 3              |
| Choose at least four (4) credits of the following:<br>BIOL 191 Biology I: Intro to Cell and Molecular Biology<br>BIOL 192 Biology II: Introduction to the Diversity of Life<br>BIOL 227 Human Anatomy and Physiology I<br>BIOL 228 Human Anatomy and Physiology II<br>CHEM 112, 112L General Chemistry II and lab                  | 4              |
| Choose at least three (3) credits of the following:<br>BIOL/ME/MSE 477 Biomaterials<br>ECE 411 CMOS Analog IC Design<br>ECE 433 Embedded & Portable Computing Systems<br>ECE 454 Digital Signal Processing<br>ECE 457 Digital Image Processing<br>ME 356 Introduction to Solid Biomechanics<br>PHYS 307 Introduction to Biophysics | 3              |
| <b>Total</b>   | <b>11</b>      |

| Cyber Operations Certificate   |                |
|--|----------------|
| <i>Course Number and Title</i>   | <i>Credits</i> |
| CPS 301 Information Assurance and Critical Thinking  | 3              |
| CPS 412 Foundational Essentials for IT Cybersecurity Practitioners   | 3              |
| Choose two (2) from:<br>CPS 401 Defensive Security<br>CPS 402 Offensive Security<br>CPS 403 Recovery and Forensics | 6              |
| <b>Total</b>   | <b>12</b>      |
| The certificate will be awarded following the completion of an associate or baccalaureate degree.                  |                |

| Cyber-Physical Systems Security for All Certificate   |                |
|---|----------------|
| <i>Course Number and Title</i>  | <i>Credits</i> |
| CPS 100 Cyber and Physical Security Awareness for All   | 3              |
| CPS 200 Internet of Things: Connected Devices   | 3              |
| CPS 300 Hands-on Security: From Home to Office and Everything in Between.                         | 3              |
| CPS 302 Incident Response and Recovery  | 3              |
| <b>Total</b>  | <b>12</b>      |
| The certificate will be awarded following the completion of an associate or baccalaureate degree. |                |

| Security in Cyber-Physical Systems—<br>Hardware and Firmware Focus Certificate   |                |
|--|----------------|
| <i>Course Number and Title</i>   | <i>Credits</i> |
| ECE 337/CS 330/ENGR 337/MATH 337/ME 337 Intro to Security in Cyber-Physical Systems  | 3              |
| Two (2) of the following:<br>ECE 430 Digital Hardware Design<br>ECE 432/CS 441 Computer Architecture<br>ECE 433 Embedded & Portable Computing Systems<br>ECE 451 Communication Systems<br>ECE 456 Pattern Recognition and Machine Learning | 6              |
| One (1) additional course from this focus or any course from the other Security in Cyber-Physical Systems certificates.  | 3              |
| <b>Total</b>   | <b>12</b>      |
| Students must complete all 12 credits with a C or above.<br>The certificate will be awarded following the completion of an associate or baccalaureate degree.  |                |

| Security in Cyber-Physical Systems—<br>Industrial Control Focus Certificate   |                |
|---|----------------|
| <i>Course Number and Title</i>  | <i>Credits</i> |
| ECE 337/CS 330/ENGR 337/MATH 337/ME 337 Intro to Security in Cyber-Physical Systems   | 3              |
| Two (2) of the following:<br>CS 424 Cyber Security of Critical Infrastructures<br>ECE 360/ME 360 System Modeling and Control<br>ME 465 Robust Control of Industrial Systems | 6              |
| One (1) additional course from this focus or any course from the other Security in Cyber-Physical Systems certificates.   | 3              |
| <b>Total</b>  | <b>12</b>      |
| Students must complete all 12 credits with a C or above.<br>The certificate will be awarded following the completion of an associate or baccalaureate degree.               |                |

| Security in Cyber-Physical Systems—<br>Power Systems Focus Certificate  |         |
|---|---------|
| Course Number and Title   | Credits |
| ECE 337/CS 330/ENGR 337/MATH 337/ME 337 Intro to Security in Cyber-Physical Systems   | 3       |
| Two (2) of the following:<br>ECE 371 Smart Grid and Renewable Energy Systems<br>ECE 473 Power Systems Analysis I<br>ECE 474 Power Systems Analysis II         | 6       |
| One (1) additional course from this focus or any course from the other Security in Cyber-Physical Systems certificates.                                       | 3       |
| Total   | 12      |
| Students must complete all 12 credits with a C or above.<br>The certificate will be awarded following the completion of an associate or baccalaureate degree. |         |

| Security in Cyber-Physical Systems—<br>Software Focus Certificate   |         |
|---|---------|
| Course Number and Title   | Credits |
| ECE 337/CS 330/ENGR 337/MATH 337/ME 337 Intro to Security in Cyber-Physical Systems   | 3       |
| Two (2) of the following:<br>CS 331 Computer Security & Information Assurance<br>CS 332 Ethical Hacking<br>CS 333 Networking Security and Defense<br>MATH 307 Foundations of Cryptology | 6       |
| One (1) additional course from this focus or any course from the other Security in Cyber-Physical Systems certificates.   | 3       |
| Total   | 12      |
| Students must complete all 12 credits with a C or above.<br>The certificate will be awarded following the completion of an associate or baccalaureate degree.                           |         |

## Course Offerings

### CPS—Cyber Physical Security

#### Lower Division

**CPS 100 CYBER AND PHYSICAL SECURITY AWARENESS FOR ALL (3-0-3)(F).** Introduction to cyber and physical security for all students. Explores the principles and practices to keep device information safe; discussions of hacking, ethics, privacy, compliance, and an overview of policies and regulations related to security in cyber-physical systems. PREREQ: MATH 108 or satisfactory placement score.

**CPS 200 INTERNET OF THINGS: CONNECTED DEVICES (3-0-3)(S).** Introduction to applications, operating systems, computer hardware, and computer programming related to uses and practices in the internet of things. Discussions will include analysis of best practices in each area that makes those systems less vulnerable to hacking or interference. PREREQ: CPS 100.

#### Upper Division

**CPS 300 HANDS-ON SECURITY: FROM HOME TO OFFICE AND EVERYTHING BETWEEN (3-0-3)(F).** Modern communication systems, home networking, office network, operation networks, firewalls, intrusion detection systems (IDS), intrusion protection systems (IPS), cybersecurity vulnerabilities, risks and threats at all levels will be discussed. Analysis related to critical infrastructure, vulnerabilities of physical systems, and the protection of group information security will be discussed. PREREQ: CPS 100 and upper-division standing.

**CPS 301 INFORMATION ASSURANCE AND CRITICAL THINKING (3-0-3)(F/S/SU).** Topics related to business needs and requirements, information assurance, information security, risk management, logic,

communication and critical thinking in cyber-security or cyber-physical systems security. The course also examines the components of a comprehensive information assurance plan, day-to-day operation enterprise risk management, NIST cybersecurity framework, and NIST risk management framework. PREREQ: Foundation of Mathematics course.

**CPS 302 INCIDENT RESPONSE AND RECOVERY (3-0-3)(S).** Planning and recovery for critical incidents will be covered. Topics include risk assessment, preparation, identification, containment, eradication, and recovery related to cyber-physical attacks. Methods and approaches to create "lessons learned" reports, digital forensic analysis, and subsequent planning for changes to the systems. PREREQ: CPS 100 and upper-division standing.

**CPS 401 DEFENSIVE SECURITY (3-0-3)(F/S/SU).** Provides baseline of fundamental knowledge of defensive security. Includes systems engineering, scripting, cyber-informed engineering, cyber-kill chain, cloud security, MITRE ATT&CK human elements, logging, detection, prevention, monitoring, policies, programs, and procedures at different levels of an information system. Discusses creating and assessing security architectures, including DoDAF, SABSA, and MORDA. PREREQ: CPS 301.

**CPS 402 OFFENSIVE SECURITY (3-0-3)(F/S/SU).** Discusses the tools and techniques used to look for weaknesses and vulnerabilities in a lawful and legitimate manner, along with the tools and techniques to strengthen security of systems. Discusses network mapping, cloud security, scripting, basic IETF protocols and analyze how they work and how they have been exploited. PREREQ: CPS 301.

**CPS 403 RECOVERY AND FORENSICS (3-0-3)(F/S/SU).** Introduces the techniques and skills needed in computer forensics and data recovery. From the use of enterprise computer forensics tools to analyze trace evidence left behind by unauthorized access. PREREQ: CPS 301.

**CPS 410 FOUNDATIONAL ESSENTIALS FOR IT PRACTITIONERS (3-0-3)(F/S/SU).** A guided course with the goal of obtaining industry relevant certification. The objective is to obtain credential for technical support and IT operational roles. Student will gain knowledge and skills necessary to manage, maintain, troubleshoot, install, operate and configure office computing equipment, describe computing technologies, basic principles, adhere to professional standards, and use testing tools. PREREQ: PERM/INST.

**CPS 411 FOUNDATIONAL ESSENTIALS FOR IT NETWORK PRACTITIONERS (3-0-3)(F/S/SU).** A guided course with the goal of obtaining network industry relevant certification. The objective is to obtain networking credential by covering troubleshooting, configuring, and managing networks. Students will gain knowledge and skills necessary to manage, maintain, troubleshoot, install, operate and configure basic network infrastructure, describe networking technologies, basic design principles, and adhere to wiring standards and use testing tools. PREREQ: PERM/INST.

**CPS 412 FOUNDATIONAL ESSENTIALS FOR IT CYBERSECURITY PRACTITIONERS (3-0-3)(F/S/SU).** A guided course with the goal of obtaining industry relevant certification. The objective is to obtain cybersecurity certification with the core knowledge required of any cybersecurity role and provides a springboard to intermediate-level cybersecurity jobs. Students will gain knowledge and skills necessary to identify and address potential threats, attacks and vulnerabilities and establish techniques in risk management, risk mitigation, threat management and intrusion detection. PREREQ: CPS 301 or PERM/INST.

**CPS 413 INTERMEDIATE-LEVEL ESSENTIALS FOR IT CYBERSECURITY PRACTITIONERS (3-0-3)(F/S/SU).** A guided course with the goal of obtaining industry relevant certification. Uses active learning with performance-based questions, and management skills used to plan, scope, and manage weaknesses, not just exploit them. Students will gain knowledge and skills to identify, exploit, report and manage vulnerabilities on a network. PREREQ: PERM/INST.

**ECE—Electrical and Computer Engineering****Lower Division**

**ECE 180 (CSE 180) INTRODUCTION TO ELECTRICAL AND COMPUTER ENGINEERING (1-0-1)(S).** Introduction to electrical and computer engineering hardware and software tools. Overview of the electrical and computer engineering profession, careers, and foundations for success in the curriculum. Design and build a project to provide hands-on experience. Introduction of skills for college success. May be taken for credit as CSE or ECE, but not both.

**ECE 210 INTRODUCTION TO ELECTRIC CIRCUITS (3-0-3)(F, S).** Fundamental laws, basic network analysis, and circuit theorems. Capacitors, inductors, and operational-amplifier circuits. First- and second-order circuits. Sinusoidal steady-state analysis of AC circuits. Introduction to computer-aided circuit simulation. PREREQ: PHYS 212. PRE/COREQ: MATH 333.

**ECE 212 CIRCUIT ANALYSIS AND DESIGN (3-0-3)(F, S).** Single-phase and three-phase AC circuits. Mutual inductance and transformers. Laplace transforms and circuit applications. Transfer functions, Bode plots, frequency response, and resonant circuits. Fourier series and filter circuit design. Two-port networks. PREREQ: ECE 210 and MATH 333. COREQ: ECE 212L.

**ECE 212L CIRCUIT ANALYSIS AND DESIGN LAB (0-3-1)(F, S).** Lab work to accompany ECE 212 Circuit Analysis and Design. COREQ: ECE 212, ENGR 207.

**ECE 230 DIGITAL SYSTEMS (3-0-3)(F, S).** Number systems, Boolean algebra, logic gates, Karnaugh maps, combinatorial circuits, flip-flops, registers, counters, sequential state-machines and introduction to Hardware Description Languages (HDL). Construction of small digital systems. PREREQ: CS 121. COREQ: ECE 230L.

**ECE 230L DIGITAL SYSTEMS LAB (0-3-1)(F, S).** Design, construction, and test of small digital logic circuits using TTL and CMOS chips. Use of FPGA-based prototyping boards with schematic capture and simulation. COREQ: ECE 230.

**ECE 245 INTRODUCTION TO ELECTRONIC MATERIALS (1-0-1)(F/S).** An introduction to basic materials concepts relevant to electrical engineering including energy band diagrams, insulators, conductors, and semiconductors. Bonding in common semiconductor device materials. Conduction and valence bands. Semiconductor device doping: donors, and acceptors. Fermi energy, Fermi level. Carrier transport mechanisms: drift, diffusion, and generation/recombination. Conductivity, resistivity, mobility. Operation of diodes and selected transistor types. PREREQ: CHEM 111.

**Upper Division**

**ECE 300 ELECTROMAGNETIC AND WAVE THEORY (3-0-3)(F).** Electrostatic fields, potentials, Gauss' law, solutions of Laplace's equation, electrostatics of conductors and dielectric materials, vector potentials, Maxwell's equations, and transmission line theory. PREREQ: ECE 212, MATH 275, MATH 333, and PHYS 212.

**ECE 310 MICROELECTRONIC CIRCUITS (3-0-3)(F, S).** Circuit design and analysis using diodes, bipolar junction transistors, and MOSFETs. Introduction to design with op-amps. Circuit simulation with SPICE. PREREQ: ECE 212, ECE 230, and CHEM 111. COREQ: ECE 310L.

**ECE 310L MICROELECTRONIC CIRCUITS LAB (0-3-1)(F, S).** Hands-on design, construction, and test of electronic circuits using signal generators, power supplies, and oscilloscopes. COREQ: ECE 310.

**ECE 311 MICROELECTRONICS II (3-0-3)(Offered as Justified).** Microelectronics II continues the Microelectronics course with coverage of non-ideal op amps and feedback stability, BJT and MOSFET single transistor amplifier design, differential amplifiers and operational amplifier design, amplifier frequency response, transistor feedback amplifiers, and oscillators. This course is ideal for any student that wants to further their understanding and application of microelectronic circuits. PREREQUISITES: ECE 310.

**ECE 320 SEMICONDUCTOR DEVICES (3-0-3)(F).** Fundamentals of solid-state electronic devices. Energy band theory, drift, diffusion, generation and recombination of carriers. Physics, modeling, and biasing of diodes, MOSFETs, BJTs. Electronics of metal-semiconductor junctions and the MOS capacitor structure. SPICE model development. Introduction to 2-D device design software. PREREQ: ECE 310.

**ECE 330 MICROPROCESSORS (3-0-3)(F, S).** Microprocessor architecture, software development tools, and hardware interfacing. Emphasis is placed on 16 and 32 bit microprocessor systems. Machine and assembly language programming, instruction set, addressing modes, programming techniques, memory systems, I/O interfacing, and interrupt handling are among the topics studied with practical applications in data acquisition, control, and interfacing. PREREQ: ECE 230. COREQ: ECE 330L.

**ECE 330L MICROPROCESSORS LAB (0-3-1)(F, S).** Lab work on microprocessors using a Macroassembler and a hardware experimentation kit. COREQ: ECE 330.

**ECE 337 (CS 330)(ENGR 337)(MATH 337)(ME 337) INTRODUCTION TO SECURITY IN CYBER-PHYSICAL SYSTEMS (3-0-3)(F).** Overview of systems security: hardware, software, encryption, and physical security. Includes multiple modules: system security, physical issues in security, hardware and firmware security issues, industrial control, and all things connected to the internet. PREREQ: CS 117 or CS 121 or MATH 265, PHYS 211, and MATH 189 or MATH 360 or MATH 361.

**ECE 340 (MSE 410) ELECTRICAL PROPERTIES OF MATERIALS (3-0-3)(F/S).** Physical principles underlying the electrical properties of metals, insulators and semiconductors. The effects of energy band structure, thermal properties and impurities on electrical conduction. Concepts covered are applied to electrical devices including nanodevices, MOSFETs and optoelectronic devices. May be taken for MSE or ECE credit, but not both. PREREQ: MSE 245, MATH 333.

**ECE 350 SIGNALS AND SYSTEMS (3-0-3)(F, S).** Signal and system properties. Convolution. Fourier and Laplace techniques. Basics of amplitude modulation. Discrete-time systems theory including sampling and aliasing, z-transforms, and digital filters. PREREQ: ECE 212. COREQ: ECE 350L and MATH 360 or MATH 361.

**ECE 350L SIGNALS AND SYSTEMS LAB (0-3-1)(F, S).** Lab work on signals and systems. COREQ: ECE 350.

**ECE 360 (ME 360) SYSTEM MODELING AND CONTROL (3-0-3)(F, S).** Modeling and simulation of physical systems. Transfer functions, block diagrams, step responses and stability. Design of feedback control systems in the Laplace Domain. May be taken for ECE or ME credit, but not both. PREREQ: MATH 333, ENGR 240 or ECE 212.

**ECE 371 SMART GRID AND RENEWABLE ENERGY SYSTEMS (3-0-3)(S).** A survey of distributed energy generation (DEG) resources to include solar, wind, biomass, grid-level energy storage, as compared to traditional electric power production, transmission, and distribution. Advanced metering infrastructure (AMI) cyber security, and supervisory control and data acquisition (SCADA) as well as technical, economic, and system integration issues are examined. PREREQ: ECE 212 or ENGR 240.

**ECE 380 ELECTRICAL ENGINEERING PRACTICE (2-0-2)(S).** Fundamentals in the practice of Electrical Engineering as a profession. Topics include written and oral communication within Electrical Engineering; engineering project management and economics; design of experiment, systems, processes, and devices; test, reliability, lifetime, and failure analysis; manufacturing; ethics; sustainability; and engineering professionalism. PREREQ: ENGL 102, FC, ENGL 202 or ENGR 207, ECE 212. COREQ: ECE 310 and ECE 380L.

**ECE 380L ELECTRICAL ENGINEERING PRACTICE LAB (0-3-1)(S).** Laboratory work on Electrical Engineering Practice. PREREQ: ENGL 102, COREQ: ECE 380.

## ELECTRICAL AND COMPUTER ENGINEERING

**ECE 400 APPLIED ELECTROMAGNETICS (3-0-3)(S).** An applied study of electromagnetic theory and its applications to wave propagation in bounded structures, scattering and diffraction, antenna theory, S-parameters, and microwave engineering. PREREQ: ECE 300 or PHYS 382.

**ECE 410 DIGITAL INTEGRATED CIRCUIT DESIGN (3-0-3)(F).** An introduction to CMOS IC design, layout, and simulation. MOSFET operation and parasitics. Digital design fundamentals: digital logic families, latches, flip-flops, sequential logic and datapath subsystems. EDA tools for design, simulation, parasitic extraction and chip tape-out. PREREQ: ECE 310.

**ECE 411 CMOS ANALOG IC DESIGN (3-0-3)(S).** An introduction to CMOS analog integrated circuit design. High-frequency models for MOSFET, current mirrors, voltage references, negative feedback systems and stability, amplifiers, frequency compensation and op-amps. PREREQ: ECE 310.

**ECE 412 BIOMEDICAL INSTRUMENTATION AND BRAIN-MACHINE INTERFACES (3-0-3)(S)(Even years).** Overview of instrumentation and techniques used in biomedical research and clinical medicine. Concepts from circuit theory and signal processing will be leveraged for their application to biomedical instrumentation. Biological signals and physiology will be discussed from an electrical engineering perspective. By unifying key engineering, biomedical, and neuroscience concepts, students will design and evaluate systems such as ECG, EMG, EEG, cochlear and retinal implants, and brain-machine interfaces. Students will gain exposure to recent developments in research and industry. PREREQ: ECE 212 or ENGR 240.

**ECE 413 RF DESIGN (3-0-3)(S).** Design of wireless systems and RF circuits including amplifiers, oscillators, mixers, filters, and matching networks. Comparison of semiconductor device type characteristics and applications. Use of various analysis, simulation, characterization, and measurement tools for low-noise design, stability analysis, distortion analysis and mitigation, frequency synthesis, and transmission line characterization. PREREQ: ECE 300, ECE 310, ECE 350.

**ECE 418 MEMORY AND PLL IC DESIGN (3-0-3)(F).** Transistor-level design of memory and clock synchronization circuits: DRAM, SRAM, Flash, and ReRAM, design and analysis of Phase-locked Loops (PLLs), Delay-locked Loops (DLLs) and Clock-Data Recovery (CDR) circuits. PREREQ: ECE 410.

**ECE 420 ADVANCED DEVICE DESIGN AND SIMULATION (3-0-3)(S).** Energy band formation, semiconductor carrier statistics, and carrier transport including recombination and generation mechanisms. Physical operation and design of metal-semiconductor contacts, pn-junction diodes, MOS capacitors, and MOSFETs with both analytical and numerical approaches. Scaling rules, short-channel effects, and nanoscale transistors are also discussed. PREREQ: ECE 310, and ECE 320 or ECE 340.

**ECE 430 DIGITAL HARDWARE DESIGN (3-0-3)(F).** Advanced topics in digital system design emphasizing the specification and design of complex digital hardware systems using Hardware Description Languages (HDL) and High Level Synthesis (HLS). Applications include design of synchronous state machines, asynchronous digital systems, crossing multiple clock domains, and cryptography protocols for cyber-physical systems security. Design, simulation and implementation on FPGA development boards. PREREQ: ECE 230 and CS 121.

**ECE 432 (CS 441) COMPUTER ARCHITECTURE (3-0-3)(F).** Structure of computer systems using processors, memories, and input/output (I/O) devices as building blocks. Computer system instruction set design and implementation, including memory hierarchies, microprogramming, pipelining and multiprocessors. Issues and trade-offs involved in the design of computer system architectures with respect to the design of instruction sets. Cyber-physical security implications of architectural design choices. May be taken for either CS or ECE credit, but not both. PREREQ: ECE 330.

**ECE 433 EMBEDDED AND PORTABLE COMPUTING SYSTEMS (3-0-3)(S).** Microcontrollers and their use in embedded systems and sensors applications. Power consumption, software development, interprocessor

communication, and interfacing with sensors, actuators, and input/output devices. Cyber-physical systems security topics including secure coding, buffer overflow, and physical security. An embedded system project is designed and built. PREREQ: ECE 330.

**ECE 434 (CS 425) COMPUTER NETWORKS (3-0-3)(F).** Concepts and implementation of networking: physical, link, network, transport, and application layer protocols. Wireless networking and security basics. PREREQ: CS 253 and CS 321.

**ECE 436 DIGITAL SYSTEMS RAPID PROTOTYPING (3-0-3)(S).** Hardware description languages and hardware programming languages as a practical means to simulate/implement hybrid sequential and combinational systems. Actual design and implementation of sizeable digital design problems using the most up-to-date industry Computer Aided Design tools and Field-Programmable Gate Arrays. PREREQ: ECE 430.

**ECE 440 INTRO TO INTEGRATED CIRCUIT PROCESSING (3-0-3)(F)(Even years).** Fundamentals of integrated circuit fabrication technology; semiconductor substrates; theory of unit processes such as diffusion, oxidation, ion implantation, rapid thermal processing, photolithography, wet etching and cleaning, dry etching, thin-film deposition; chemical mechanical polishing; process integration; metrology; statistical process control; TCAD. PREREQ: ECE 320 or ECE 340/MSE 410. COREQ: ECE 440L.

**ECE 440L INTRO TO INTEGRATED CIRCUIT PROCESSING LAB (0-3-1)(F).** Semiconductor cleanroom practices; heavy lab safety; students will experiment with semiconductor processes and fabricate and test simple structures in lab. COREQ: ECE 440.

**ECE 441 ADVANCED SILICON TECHNOLOGY (3-0-3)(S)(Odd years).** Advanced technology for unit processes such as diffusion, oxidation, ion implantation, thin film deposition, etching, rapid thermal processing, chemical mechanical polishing, and lithography. CMOS and bipolar process integration. PREREQ: ECE 440.

**ECE 442 PHOTOLITHOGRAPHY (3-0-3)(S).** Principles of optics, diffraction, interference, superposition of waves, imaging systems, fundamentals of microlithography, resolution, contact and projection lithography, photoresist processing, metrology. Phase shift masks, anti-reflective coatings, deep-ultraviolet lithography, off-axis annular illumination. PREREQ: ECE 440.

**ECE 443 INTRODUCTION TO MEMS (3-0-3)(F/S).** Overview of MEMS; MEMS device physics including beam theory, electrostatic actuation, capacitive and piezoresistive sensing, thermal sensors and actuators; basic MEMS fabrication techniques; MEMS technologies: bulk micromachining, surface micromachining, and LIGA; MEMS design and modeling; case studies in various MEMS systems. PREREQ: ECE 440.

**ECE 451 COMMUNICATION SYSTEMS (3-0-3)(S).** Signals, noise, propagation and protocol in analog and digital communication systems. Bandwidth, Fourier transforms, signal to noise ratio and receiver noise figures. Introduction to modern wireless communication systems such as cellular, wireless data and satellite data systems. Introduction to physical layer security and the principles of encryption for communication systems. PREREQ: ECE 350, and MATH 360 or MATH 361.

**ECE 451L COMMUNICATION SYSTEMS LAB (0-3-1)(S).** Lab experience accompanying ECE 451 utilizing AM/FM modulation, spectrum analysis, receiver design and analysis. PREREQ: ECE 350. COREQ: ECE 451.

**ECE 452 WIRELESS COMMUNICATIONS (3-0-3)(F).** Modern cellular communication systems, including propagation, handoff, noise, and interference studies. CDMA and other spread-spectrum systems. PREREQ: ECE 451.

**ECE 454 DIGITAL SIGNAL PROCESSING (3-0-3)(F).** Modern digital signal processing in engineering systems. Review of continuous-time and discrete-time signals, spectral analysis; design of FIR and IIR digital filters. Fast Fourier Transform, two-dimensional signals, realization structure of digital filters, and filter design. PREREQ: ECE 350.



**ECE 456 PATTERN RECOGNITION AND MACHINE LEARNING (3-0-3)(Offered as Justified).** Basic concepts of statistical and neural pattern recognition. Structure of pattern classification problems. Mathematics of statistical decision theory; multivariate probability functions, discriminant, parametric and nonparametric techniques. Bayesian and maximum likelihood estimation, feature selection, dimensionality reduction, neural network and deep learning recognition, and clustering. Includes applications to cyber-physical security. PREREQ: CS 221, and either MATH 360 or MATH 361.

**ECE 457 DIGITAL IMAGE PROCESSING (3-0-3)(F).** Pictures and their computer representation. Image digitization, transformation, and prediction methods. Digital enhancement techniques, histogram equalization, restoration, filtering and edge detection. Color models and transformations. Wavelets and morphological algorithms. PREREQ: ECE 350 and CS 121.

**ECE 461 (ME 461) CONTROL SYSTEMS (3-0-3)(Offered as Justified).** Time and frequency domain analysis and design of feedback systems using classical and state space methods. Observability, controllability, pole placement, and observers. May be taken for ECE or ME credit, but not both. PREREQ: ECE 360 or ME 360.

**ECE 470 ELECTRIC MACHINES (3-0-3)(S).** Magnetic materials and magnetic circuits. Principles of electromechanical energy conversion, energy and coenergy concepts, forces and torques of electromagnetic origin. Introduction to rotating machines including synchronous machines and induction machines. PREREQ: ECE 212, ECE 300.

**ECE 472 POWER ELECTRONICS (3-0-3)(F).** Power electronic switches, diode and controlled rectifiers, AC-AC phase control, DC-DC converters, inverters, introduction to electric drives and power quality fundamentals. PREREQ: ECE 212.

**ECE 473 POWER SYSTEM ANALYSIS I (3-0-3)(F).** Three-phase AC systems, generators, transformers, transmission lines, one-line diagrams, per-unit system, network calculations, load flow studies, power system operation. Introduction to cyber-physical security in power systems, cyber threats and case studies. PREREQ: ECE 212 or ENGR 240.

**ECE 474 POWER SYSTEM ANALYSIS II (3-0-3)(S).** Fault analysis, symmetrical components, power system transients, protection and relaying, transient stability, power system operation and control, power system economics, power quality, and power system reliability. Components of a SCADA system, vulnerabilities, communication protocols, cyber-physical security issues, and compliance with standards. PREREQ: ECE 473.

**ECE 480 SENIOR DESIGN PROJECT I (2-3-3)(F).** Part one of the capstone design experience integrating previous design work with design theory and methodology. Applied through individual projects with fixed specifications requiring effective use of engineering skills including: time management, design trade-off analysis, SPICE simulation, PCB layout, and test/debug of the constructed design. Written reports are completed at each phase of the design process. PREREQ: ECE 310, ECE 330, ECE 350 and ECE 380.

**ECE 482 SENIOR DESIGN PROJECT II (2-3-3)(S)(FF).** Part two of the capstone design experience integrating previous design work with design theory and methodology. Applied through group project to integrate specifications based upon customer and engineering requirements, computer modeling, simulation, and reliability analysis. Includes a series of project reports, formal presentations, and a written report. Development of skills used in the engineering profession: teamwork, effective meetings, safety, ethics, project management, and time management. PREREQ: ECE 480.

## Engineering Science

Charles P. Ruch Engineering Building, Room 101

(208) 426-2688 (phone)

(208) 426-4466 (fax)

<https://www.boisestate.edu/coen/> (website)

*Associate Dean:* Sondra Miller. *Program Director:* Amy Moll. *Faculty:* Gardner, Hughes, Llewellyn, Salzman, Stieha, Swanson. *Lecturers:* Delaney, Hagemeyer, Hollar.

### Degrees Offered

- Bachelor of Science in Engineering
  - EngineeringPLUS Emphasis
  - Pre-Medical Emphasis
  - Secondary Education Emphasis
- Certificate in Engineering Design

### Program Statement

Do you want to put your engineering degree to work increasing health, happiness, and safety for others? Engineers contribute to the world by creatively solving problems and innovating products and approaches, enriching the lives of people and the world around us.

The BS in Engineering is known as the Engineering PLUS program. This degree provides you with a strong engineering foundation by including core courses in Boise State's College of Engineering (mechanical, civil, electrical engineering, materials science, and computer science). It adds in a unique four-semester design curriculum built around the problem solving strategies used in top organizations from business, to non-profit, and service sectors. Then, you add your own PLUS with engineering electives and pathway electives from any department in the university to turn your ideas into reality.

Graduates earn an Engineering, BS and are prepared for a wide variety of high demand careers in as few as eight semesters.

### Engineering Design throughout the Curriculum

A signature component of this program is an engineering design course in each year of the curriculum. These courses develop the students' capabilities in both human-centered and engineering design. Design in this curriculum is the intentional creation and expression of products, processes and/or experiences. Human-centered design incorporates the human perspective throughout the design process.

### Program Educational Objectives

The Engineering Plus program prepares its graduates to make contributions in many diverse areas. Specifically, within five years of graduation our graduates will be:

- Established in professional careers or enrolled in a graduate or professional degree program.
- Advanced in professional standing based on their technical accomplishments and accumulated additional technical expertise.
- Applying the principles of human-centered engineering design in their professional pursuits.
- Ethically committed to improving the quality of life for people around the world.

### Degree Requirements

| Engineering Bachelor of Science  |                |
|--|----------------|
| Course Number and Title  | Credits        |
| University Foundations requirements indicated in bold. See page 48 for details and lists of approved courses.  |                |
| <b>UF 100</b> Foundations of Intellectual Life   | 3              |
| <b>UF 200</b> Foundations of Ethics and Diversity  | 3              |
| <b>FW ENGL 101</b> Writing and Rhetoric I  | 3              |
| <b>FW ENGL 102</b> Writing and Rhetoric II   | 3              |
| <b>FC</b> Foundations of Oral Communication  | 3              |
| <b>FM MATH 170</b> Calculus I  | 4              |
| <b>FN CHEM 111, 111L</b> General Chemistry I with Lab  | 4              |
| <b>FN PHYS 211, 211L</b> Physics I with Calculus & Lab   | 5              |
| <b>FA</b> Foundations of Arts course   | 3              |
| <b>FH</b> Foundations of Humanities course or<br><b>FH STEM-ED 220</b> Philosophical Perspectives on Science and Mathematics (required for Secondary Education Emphasis) or<br><b>FH</b> World Languages (recommended for Pre-Medical Emphasis)                                  | 3-4            |
| <b>FS</b> Foundations of Social Sciences course or<br><b>FS ED-CIFS 201</b> Education, Schooling, and Society (required for Secondary Education Emphasis) or<br><b>FS PSYC 101</b> Introduction to Psychology (recommended for Pre-Medical Emphasis)                             | 3              |
| <b>FS</b> Foundations of Social Sciences course in a second field or<br><b>FS STEM-ED 210</b> Knowing and Learning in Mathematics & Science (required for Secondary Education Emphasis) or<br><b>FS SOC 101</b> Introduction to Sociology (recommended for Pre-Medical Emphasis) | 3              |
| <b>CE 286</b> Introduction to AutoCAD for Civil Engineers or<br><b>ME 187</b> Graphical Communications   | 2              |
| <b>CHEM 112, 112L</b> General Chemistry II with Lab or<br><b>PHYS 212, 212L</b> Physics II with Calculus & Lab   | 4-5            |
| <b>CS 117</b> C++ for Engineers or<br><b>CS 121</b> Computer Science I   | 3-4            |
| <b>ENGR 180</b> Communication in Design Thinking   | 3              |
| <b>ENGR 210</b> Engineering Mechanics I  | 3              |
| <b>ENGR 240</b> Electrical and Electronic Circuits or<br><b>ECE 210</b> Introduction to Electric Circuits  | 3              |
| <b>ENGR 280</b> Engineering Design I   | 3              |
| <b>ENGR 380</b> Engineering Design II  | 3              |
| <b>FF ENGR 480</b> Engineering Design III  | 4              |
| <b>MATH 175</b> Calculus II  | 4              |
| <b>MATH 275</b> Multivariable and Vector Calculus  | 4              |
| <b>MATH 333</b> Differential Equations with Matrix Theory  | 4              |
| <b>MATH 360</b> Engineering Statistics or<br><b>MATH 361</b> Probability and Statistics I  | 3              |
| <b>MSE 245, 245L</b> Intro to Materials Sci & Engineering & Lab  | 4              |
| Engineering electives (Advisor approval required, 15 credits must be upper-division)   | 18             |
| <b>EngineeringPLUS Emphasis</b>  |                |
| PLUS electives (Advisor approval required, 15 credits must be upper-division)  | 18             |
| <b>Total</b>   | <b>123-127</b> |

| Pre-Medical Emphasis                                       |         |
|--|---------|
| BIOL 191 Biology I: Intro to Cell and Molecular Biology    | 4       |
| BIOL 192 Biology II: Introduction to the Diversity of Life | 4       |
| BIOL 227-228 Human Anatomy and Physiology I & II           | 8       |
| BIOL 310 Genetics  | 3       |
| CHEM 307, 308-309, 310 Organic Chemistry I & II with Labs  | 10      |
| CHEM 350 Fundamentals of Biochemistry                      | 3       |
| Total  | 137-141 |
| Secondary Education Emphasis                               |         |
| STEM-ED 101 Step 1: Inquiry Approaches to Teaching         | 1       |
| STEM-ED 102 Step 2: Inquiry-Based Lesson Design            | 1       |
| STEM-ED 310 Classroom Interactions                         | 3       |
| STEM-ED 350 Research Methods                               | 3       |
| STEM-ED 410 Project-Based Instructions                     | 3       |
| STEM-ED 480 Apprentice Teaching                            | 6       |
| Total  | 122-126 |

| Engineering Design Certificate                     |                |
|--|----------------|
| <i>Course Number and Title</i>                     | <i>Credits</i> |
| ENGR 180 Communication in Design Thinking          | 3              |
| ENGR 280 Engineering Design I                      | 3              |
| ENGR 380 Engineering Design II                     | 3              |
| ENGR 480 Engineering Design III                    | 4              |
| MATH 170 Calculus I                                | 4              |
| MATH 175 Calculus II                               | 4              |
| MATH 333 Differential Equations with Matrix Theory | 4              |
| Total  | 25             |

| Engineering Teaching Endorsement   |                |
|--|----------------|
| <i>Course Number and Title</i>   | <i>Credits</i> |
| MATH 170 Calculus I  | 4              |
| ECE 210 Introduction to Electric Circuits or<br>ENGR 210 Engineering Mechanics I   | 3              |
| Choose one (1) course from the following:<br>ENGR 240 Electrical and Electronic Circuits<br>ME 302 Thermodynamics I<br>MSE 245 Introduction to Materials Science & Engineering | 3              |
| Upper-division engineering (CE, ECE, ENGR, ME and<br>MSE) courses  | 9              |
| Total  | 19             |
| See Department of Curriculum, Instruction, and Foundational Studies for more information.  |                |

## Course Offerings

### ENGR—Engineering Science

#### Lower Division

**ENGR 100 ENERGY FOR SOCIETY (3-0-3)(F, S, SU)(FN).** A basic understanding of energy and how it has been put to use is developed to promote a better understanding of our present technological society with its energy, environmental, social, and political problems. Alternative as well as conventional energy solutions are considered. This is a general interest course, having no prerequisite.

**ENGR 100L ENERGY FOR SOCIETY LAB (0-3-1)(F, S, SU)(FN).** An optional lab to accompany ENGR 100. COREQ: ENGR 100.

**ENGR 101 SUSTAINABLE CITIES (3-0-3)(F/S/SU)(FN).** An introduction to the science of ecological issues facing cities and community development. Including factors such as transportation, waste management, building performance, energy and water. PREREQ: MATH 108.

**ENGR 115 IDAHO AEROSPACE SCHOLAR (2-0-2)(S).** The Idaho Aerospace Scholars is a course offered through the Idaho Digital Learning Academy (IDLA), online for high school students. Students will explore and interact with the history and internal functions of NASA space exploration through online NASA research, virtual simulations, team design projects, and problem-solving activities. Students will explore STEM careers and interact with Idaho scientists, engineers, and other STEM professions.

**ENGR 150 RESIDENTIAL COLLEGE SEMINAR: ENGINEERING (1-0-1)(F/S).** First-year Engineering Residential College participants will explore aspects of success in engineering through a series of academic, community service, and team building activities. May be repeated for credit. PREREQ: PERM/INST.

**ENGR 180 COMMUNICATION IN DESIGN THINKING (3-0-3)(F, S).** Overview of communication as a field in context of critically analyzing human-centered problems and global challenges. Demonstrate ability to recognize opportunity and take initiative developing solutions by applying principles of human-centered design, emphasizing examination from societal, cultural, and ethical perspectives. Focus on effective communication and teamwork.

**ENGR 205 TECHNICAL COMMUNICATION FOR CIVIL ENGINEERS (1-0-1)(F/S).** Explore writing conventions for civil engineers using content from co-requisite laboratory course. Draft, revise, and edit civil engineering documents for specific audiences, focusing on effective textual and visual communication. Topics include analyzing audience needs, effective engineering style, communicating data, and creating technical graphics. PREREQ: ENGL 102. PRE/COREQ: CE 321 or CE 361.

**ENGR 206 TECHNICAL COMMUNICATION FOR COMPUTER SYSTEMS ENGINEERS (1-0-1)(F/S).** Explore writing conventions for computer systems engineers using content from co-requisite laboratory course. Draft, revise, and edit civil engineering documents for specific audiences, focusing on effective textual and visual communication. Topics include analyzing audience needs, effective engineering style, communicating data, and creating technical graphics. PREREQ: ENGL 102. COREQ: ECE 230L.

**ENGR 207 TECHNICAL COMMUNICATION FOR ELECTRICAL ENGINEERS (1-0-1)(F/S).** Explore writing conventions for electrical engineers using content from co-requisite laboratory course. Draft, revise, and edit civil engineering documents for specific audiences, focusing on effective textual and visual communication. Topics include analyzing audience needs, effective engineering style, communicating data, and creating technical graphics. PREREQ: ENGL 102. COREQ: ECE 212L.

## ENGINEERING SCIENCE

**ENGR 210 ENGINEERING MECHANICS I (3-0-3)(F/S).** Methods and procedures of engineering analysis. Principles of equilibrium applied to engineering systems using forces and moments. Two and three dimensional application of scalars and vectors. Isolation of appropriate subsystems using free-body diagrams. PREREQ: MATH 170 and PHYS 211.

**ENGR 220 ENGINEERING MECHANICS II (3-0-3)(F/S).** Apply appropriate governing equations to dynamical systems. Analyze kinetic systems using concepts of force and acceleration, work and energy, and impulse and momentum. Apply appropriate constraints to analyze kinematic systems. PREREQ: MATH 175 and ENGR 210.

**ENGR 240 ELECTRICAL AND ELECTRONIC CIRCUITS (3-0-3)(F/S).** A concise overview of the basic concepts, methods, and tools employed in the broad field of electrical and electronic engineering. Provides a foundation for use throughout a career in engineering or science to understand, analyze, and improve systems that incorporate electronic circuits or electrical machinery/equipment. Basic circuit theory, analog and digital electronic components/circuits, communication circuits, power distribution circuits, and AC/DC machines. PREREQ: PHYS 211. COREQ: MATH 333.

**ENGR 250 RESIDENTIAL COLLEGE SEMINAR: ENGINEERING (1-0-1)(F/S).** Returning Engineering Residential College participants will explore aspects of success in engineering through a series of academic, community service, and team building activities. May be repeated for credit. PREREQ: PERM/INST.

**ENGR 280 ENGINEERING DESIGN I (3-0-3)(F/S).** Introduction to the engineering design process. Topics include: problem definition, identifying criteria for success, ethical issues, formulation of the detailed design, and teamwork. PREREQ: ENGR 180, and MATH 175.

### Upper Division

**ENGR 337 (CS 330)(ECE 337)(MATH 337)(ME 337) INTRODUCTION TO SECURITY IN CYBER-PHYSICAL SYSTEMS (3-0-3)(F).** Overview of systems security: hardware, software, encryption, and physical security. Includes multiple modules: system security, physical issues in security, hardware and firmware security issues, industrial control, and all things connected to the internet. PREREQ: CS 117 or CS 121 or MATH 265, PHYS 211, and MATH 189 or MATH 360 or MATH 361.

**ENGR 360 ENGINEERING ECONOMY (3-0-3)(S/SU).** Economic analysis and comparison of engineering alternatives by annual-cost, present-worth, capitalized cost, and rate-of-return methods; income tax considerations. PREREQ: MATH 175.

**ENGR 373 (NURS 373) GLOBAL CITIZENSHIP AND SOCIAL RESPONSIBILITY (3-0-3)(S).** A collaborative approach for addressing the global issues of poverty and inequity from the context of integrated health, business, education, and engineering systems. Requires an international, spring break service learning experience; acceptance into Study Abroad required. May be taken for credit for NURS or ENGR, but not both.

**ENGR 375 MICROGRAVITY UNIVERSITY (1-0-1)(F/S).** Application of science and engineering theory through proposal writing and design of experiments for microgravity flights on NASA aircraft. May be repeated for credit. (Pass/Fail. ) PREREQ: PERM/INST.

**ENGR 380 ENGINEERING DESIGN II (2-3-3)(F/S).** The engineering design process applied to a variety of individual and team projects. Projects will incorporate the establishment of objectives and criteria, synthesis, analysis, construction, testing and evaluation. Realistic constraints, such as economic factors, safety, reliability, aesthetics, ethics and social impact are applied in the projects. Oral and written communication for engineering practice. PREREQ: ENGR 280, MATH 333.

**ENGR 398 PERSPECTIVES ON ENGINEERING CAREERS (1-0-1)(S).** Seminar series that highlights career opportunities for engineering majors. Guest speakers from throughout the region will present to the students. Focus on the importance of life-long learning in engineering careers. (Pass/Fail. )

**ENGR 425 THE BUSINESS OF TECHNOLOGY (3-0-3)(F).** Gives Engineering and Science graduates a deeper understanding of essential business concepts, a broadened business vocabulary, and greater confidence in communicating with hiring managers and business leaders. PREREQ: ENGR 180.

**ENGR 460 MANUFACTURING PROCESS CONTROL AND IMPROVEMENT (3-0-3)(S).** Application of statistics in manufacturing to characterize variation, control processes and to improve quality using statistical process control approaches and design of experiments methodologies. Topics covered include control charts, process capability, gage R&R, analysis of variance, acceptance sampling, factorial designs, response surfaces and regression analysis. PREREQ: MATH 360 or MATH 361.

**ENGR 475 MICROGRAVITY UNIVERSITY (1-0-1)(F/S).** Application of science and engineering theory through proposal writing and design of experiments for microgravity flights on NASA aircraft. May be repeated for credit. (Pass/Fail. ) PREREQ: PERM/INST.

**ENGR 480 ENGINEERING DESIGN III (3-3-4)(F/S)(FF).** The capstone design experience integrating engineering design, the design process, and project management to solve open-ended projects based upon customer and engineering requirements. Includes a series of project reports, formal presentations, and a written report. Professional skills, such as teamwork, leading effective meetings, safety, ethics, project management, and time management will be emphasized. PREREQ: ENGR 380 and senior standing.

# Department of English

College of Arts and Sciences

Liberal Arts Building, Room 228

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(208) 426-4373 (fax)

english@boisestate.edu (email)

<https://www.boisestate.edu/english/> (website)

*Chair and Professor:* Mac Test. *Associate Chairs and Associate Professors:* Whitney Douglas and Casey Keck. *Director of English Education and Associate Professor:* Jim Fredricksen. *Director of English Language Support Programs and Professor:* Gail Shuck. *Director of First-Year Writing Program and Professor:* Heidi Estrem. *Associate Director of First-Year Writing Program and Associate Professor:* Dawn Shepherd. *Director of Linguistics and Associate Professor:* Michal Temkin Martinez. *Director of Literature and Humanities and Professor:* Ann Campbell. *Director of MA in English and Professor:* Dora Ramirez. *Director of Writing, Rhetoric, and Technical Communication and Professor:* Clyde Moneyhun. *Director of MA in Technical Communication and Professor:* Roger Munger. *Director of Writing Center and Lecturer:* Melissa Keith. *Assistant Director of Writing Center:* TBA. *Internship Coordinator and Lecturer:* Debra Purdy. *Undergraduate Advising Coordinator and Professor:* Matthew Hansen. *Professors:* Harvey, O'Connor, Olsen-Smith, Payne, Penry, Uehling, Westover, Wilhelm. *Associate Professors:* Basu Thakur, Clare, Hillard, Hindrichs, Mallette, Myers, Thornes. *Assistant Professors:* Boggs, Mukherjee, Warrington. *Lecturers:* Barnes, Black, Bundy, Carter-Cram, Chastaine, Cook, Cox, Drew, Heney, Hitesman, Jenkins-Fletcher, Kuchta, McGill, Naylor, Nogle, Ottey, Purdy, Roser, Salter, Seymour, VanderStouwe.

## Degrees and Certificates Offered

- Bachelor of Arts in English, Linguistics Emphasis
- Bachelor of Arts in English, Literature Emphasis
- Bachelor of Arts in English Teaching
- Bachelor of Arts in English, Writing, Rhetoric, and Technical Communication Emphasis
- Minor in English
- Minor in English Literature
- Minor in Linguistics
- Minor in Writing for Change
- Certificate in Technical Communication

## Department Statement

The major in English provides excellent preparation for many professional degrees and for a variety of careers demanding strong critical thinking and communication skills. The major also prepares students for traditional English graduate degrees in literature, rhetoric and composition, creative writing, linguistics, technical communication, and English teacher education.

To serve students' personal and professional goals, the department has designed several options that prepare students for lifelong learning; for graduate work in literature, language, and writing, as well as in the professions and business; and for careers in government, business, and industry. The Linguistics Emphasis provides the opportunity for close study of how language works and of the connections between linguistics and such related fields as anthropology, sociology, and psychology; the linguistics emphasis also leads to graduate study and careers in linguistics and teaching English as a second language. The Literature Emphasis allows students to explore a wide range of authors, genres, and periods in English and American literature, as well as English-language literature produced in post-colonial and ethnic minority cultures. The English Teaching Emphasis fulfills Idaho certification requirements and prepares students to teach in secondary schools around the country. The Writing, Rhetoric, and Technical Communication emphasis provides students with in-depth experiences in the study and production of ethical and effective writing and rhetoric. Students will become successful creators, creative thinkers, and workplace writers as they develop writing and rhetorical expertise in a wide range of genres and prepare for a range of careers that involve the analysis, production, editing, and coordination of traditional, digital, and multimedia texts. English Proficiency Requirement

Because the ability to read, write, and think critically are characteristics of an educated person, and because English is the language required for success in most Boise State University courses, Boise State University requires students to demonstrate proficiency in written English. All students seeking a baccalaureate degree—and, with a few exceptions, those seeking an associate degree—must either complete six credits in English composition or demonstrate writing proficiency in English in one of the ways described in Chapter 10—*Obtaining a Degree at Boise State University*.

## Degree Requirements

| English, Linguistics Emphasis<br>Bachelor of Arts   |            |
|---|------------|
| Course Number and Title   | Credits    |
| University Foundations requirements indicated in bold. See page 48 for details and lists of approved courses.   |            |
| <b>UF 100</b> Foundations of Intellectual Life  | 3          |
| <b>UF 200</b> Foundations of Ethics and Diversity   | 3          |
| <b>FW ENGL 101</b> Writing and Rhetoric I   | 3          |
| <b>FW ENGL 102</b> Writing and Rhetoric II  | 3          |
| <b>FC</b> Foundations of Oral Communication   | 3          |
| <b>FM</b> Foundations of Mathematics course   | 3-4        |
| <b>FN</b> Foundations of Natural, Physical, & Applied Sciences course with lab  | 4          |
| <b>FN</b> Foundations of Natural, Physical, & Applied Sciences course in a second field   | 3-4        |
| <b>FA</b> Foundations of Arts course  | 3          |
| <b>FH</b> Foundations of Humanities course  | 3-4        |
| <b>FS</b> Foundations of Social Sciences course   | 3          |
| <b>FS</b> Foundations of Social Sciences course in a second field   | 3          |
| ENGL 198 Introduction to English Studies  | 1          |
| ENGL 275 Methods of Literary Studies  | 3          |
| ENGL 304 Argument   | 3          |
| LING 305 Introduction to Language Studies   | 3          |
| <b>FF</b> LING 498 Capstone in Linguistics  | 3          |
| LING 312 Introduction to Phonetics and Phonology  | 3          |
| LING 318 Introduction to Morphology and Syntax  | 3          |
| A course in Language Acquisition, from the following:<br>LING 307 Linguistics in Education<br>LING 310 First and Second Language Acquisition<br>LING 327 Applied Linguistics in Teaching English to Speakers of Other Languages<br>LING 427 Pedagogical Grammar | 3          |
| A course in Linguistic Diversity and Variation, selected from the following:<br>LING 321 Introduction to Sociolinguistics<br>LING 331 The Politics of Language<br>LING 418 Linguistic Typology  | 3          |
| Additional 400-level LING courses (excluding FF)  | 6          |
| Upper-division electives that are relevant to area of interest, to be chosen from: English, Linguistics, World Languages, Philosophy, Psychology, History, Communication, Anthropology, and Literacy, Language, and Culture.                                    | 6          |
| One (1) or more languages other than English  | 12-16      |
| Upper-division electives to total 40 credits  | 0-7        |
| Electives to total 120 credits  | 27         |
| <b>Total</b>  | <b>120</b> |
| All courses used toward the English degree must be passed with a grade of C- or higher.   |            |

ENGLISH

| English, Literature Emphasis<br>Bachelor of Arts  |                |
|---|----------------|
| <i>Course Number and Title</i>  | <i>Credits</i> |
| University Foundations requirements indicated in bold. See page 48 for details and lists of approved courses.   |                |
| <b>UF 100</b> Foundations of Intellectual Life  | 3              |
| <b>UF 200</b> Foundations of Ethics and Diversity   | 3              |
| <b>FW ENGL 101</b> Writing and Rhetoric I   | 3              |
| <b>FW ENGL 102</b> Writing and Rhetoric II  | 3              |
| <b>FC</b> Foundations of Oral Communication   | 3              |
| <b>FM</b> Foundations of Mathematics course   | 3-4            |
| <b>FN</b> Foundations of Natural, Physical, & Applied Sciences course with lab  | 4              |
| <b>FN</b> Foundations of Natural, Physical, & Applied Sciences course in a second field   | 3-4            |
| <b>FA</b> Foundations of Arts course  | 3              |
| <b>FH</b> Foundations of Humanities course  | 3-4            |
| <b>FS</b> Foundations of Social Sciences course   | 3              |
| <b>FS</b> Foundations of Social Sciences course in a second field   | 3              |
| Core Courses  |                |
| ENGL 198 Introduction to English Studies  | 1              |
| ENGL 261 Literary History I   | 3              |
| ENGL 262 Literary History II  | 3              |
| ENGL 275 Methods of Literary Studies  | 3              |
| ENGL 393 Literary Criticism and Theory  | 3              |
| British Literatures<br>3 credits must be 200-level and 3 credits must be before 1800<br>ENGL 267 Survey of British Literature I<br>ENGL 268 Survey of British Literature II<br>ENGL 340 Chaucer<br>ENGL 341 Medieval Literature<br>ENGL 345 Shakespeare<br>ENGL 350 British Renaissance Literature<br>ENGL 351 Milton<br>ENGL 358 Eighteenth-Century British Literature<br>ENGL 360 British Romantic Literature<br>ENGL 365 Victorian Literature<br>ENGL 386 Modern and Contemporary British Literature | 9              |
| American Literatures<br>3 credits must be 200-level and 3 credits must be before 1865<br>ENGL 277 Survey of American Literature I<br>ENGL 278 Survey of American Literature II<br>ENGL 316 Contemporary American Literature<br>ENGL 375 Early American Literature<br>ENGL 377 American Renaissance<br>ENGL 378 American Realism<br>ENGL 384 Literature of the American West<br>ENGL 387 Modern and Post-Modern American Literature  | 9              |
| World Literatures<br>Only 3 credits can be taken at the 200 level<br>ENGL 211 Sacred Texts<br>ENGL 216 Literature and Global Consciousness<br>ENGL 217 Mythology<br>ENGL 220 Children's and Young Adult Literature<br>ENGL 300 Studies In World Literature<br>ENGL 307 Literary Translation<br>ENGL 338 Literature In Translation   | 6              |

|  |       |
|--|-------|
| Literature and Cultural Studies<br>ENGL 221 Literature and Advocacy<br>ENGL 318 Body Politics<br>ENGL 390 Ethnic Literature<br>ENGL 392 Film and Literature<br>ENGL 394 Literature and Environment<br>ENGL 395 Women Writers<br>ENGL 396 Postcolonial Literature | 6     |
| Advanced Seminars<br>ENGL 398 Honors Symposium in English<br>ENGL 424 Advanced Topics in Literature<br>ENGL 430 Seminar in Fiction<br>ENGL 431 Seminar in Poetry<br>ENGL 432 Seminar in Nonfiction<br>ENGL 433 Seminar in Drama                                  | 3     |
| <b>FF ENGL 498</b> Senior Capstone in Literary Studies   | 3     |
| Upper-Division Electives<br>Any upper-division course with the following prefixes: ENGL, LING, CW, WORLD; any upper-division course from the Department of World Languages.  | 9     |
| Upper-division electives to total 40 credits   | 1-10  |
| Electives to total 120 credits   | 11-24 |
| Total  | 120   |
| All courses used toward the English degree must be passed with a grade of C- or higher.  |       |

The English Teaching program combines content knowledge, theories of learning and human development, study of curriculum, and methodology, to help students develop the knowledge, skills and dispositions essential for success in secondary school teaching. The program is grounded in the conceptual framework of the Professional Educator. Professional educators adjust their teaching approaches and learning environment to the needs and backgrounds of their students. Candidates who complete this program have demonstrated evidence of meeting the Idaho Beginning Teacher Standards and are eligible for recommendation for state certification.

Students wishing to pursue this degree must meet the requirements and standards for admission to teacher education, which are described fully under the Department of Curriculum, Instruction, and Foundational Studies or at <https://www.boisestate.edu/education/>. Students must meet all knowledge, skill, and disposition requirements to remain in the program.

| English Teaching<br>Bachelor of Arts  |                |
|---|----------------|
| <i>Course Number and Title</i>  | <i>Credits</i> |
| University Foundations requirements indicated in bold. See page 48 for details and lists of approved courses. |                |
| <b>UF 100</b> Foundations of Intellectual Life  | 3              |
| <b>UF 200</b> Foundations of Ethics and Diversity   | 3              |
| <b>FW ENGL 101</b> Writing and Rhetoric I   | 3              |
| <b>FW ENGL 102</b> Writing and Rhetoric II  | 3              |
| <b>FC</b> Foundations of Oral Communication   | 3              |
| <b>FM</b> Foundations of Mathematics course   | 3-4            |
| <b>FN</b> Foundations of Natural, Physical, & Applied Sciences course with lab                                | 4              |
| <b>FN</b> Foundations of Natural, Physical, & Applied Sciences course in a second field                       | 3-4            |
| <b>FA</b> Foundations of Arts course  | 3              |
| <b>FH</b> Foundations of Humanities course  | 3-4            |
| <b>FS ED-CIFS 201</b> Education, Schooling, and Society   | 3              |
| <b>FS</b> Foundations of Sciences course in a second field  | 3              |
| EDTECH 202 Teaching and Learning in a Digital Age   | 3              |

|   |            |
|---|------------|
| ED-CIFS 301* Teaching Experience I  | 2          |
| ED-CIFS 302* Learning and Instruction   | 4          |
| ED-CIFS 401* Professional Year—Teaching Experience II   | 3          |
| ED-LLC 444* Content Literacy for Secondary Students   | 3          |
| ED-ESP 350* Teaching Students with Exceptional Needs at the Secondary Level   | 3          |
| Teaching Experience III/IV*   | 14         |
| *You must apply for admission to secondary teacher education to enroll in these upper-division education courses. Completion of all requirements for graduation with a secondary education option may require more than 120 credit hours. See Department of Curriculum, Instruction, and Foundational Studies for more information. |            |
| ENGL 198 Introduction to English Studies  | 1          |
| ENGL 275 Methods of Literary Studies  | 3          |
| ENGL 301 Teaching Writers In English Language Arts Classrooms   | 3          |
| ENGL 380 Teaching Readers of Literary Texts in English Language Arts Classrooms   | 3          |
| ENGL 402 Assessing Readers and Writers in Secondary Classrooms  | 3          |
| ENGL 480 Integrating the English Language Arts in Curriculum and Instruction  | 3          |
| <b>FF</b> ENGL 495 English Language Arts Student Teacher Inquiry Community  | 1          |
| Writing courses 200-level or higher   | 6          |
| LING 305 Introduction to Language Studies   | 3          |
| Choose one course from:<br>LING 307 Linguistics in Education<br>LING 310 First and Second Language Acquisition<br>LING 327 Applied Linguistics in Teaching English to Speakers of Other Languages<br>LING 331 The Politics of Language<br>LING 427 Pedagogical Grammar  | 3          |
| Additional English and linguistics upper-division course credits<br>No more than 3 credits may be internship.<br>For certification the transcript must show at least one (1) American and one (1) British literature course.  | 15         |
| Electives to total 120 credits  | 6-9        |
| <b>Total</b>  | <b>120</b> |
| All courses used toward the English degree must be passed with a grade of C- or higher.   |            |

The English Writing, Rhetoric, and Technical Communication major prepares students for careers that require writing and managing the writing of others, whether in education, the workplace, or private life

| English, Writing, Rhetoric, and Technical Communication Emphasis Bachelor of Arts                             |                |
|---|----------------|
| <i>Course Number and Title</i>  | <i>Credits</i> |
| University Foundations requirements indicated in bold. See page 48 for details and lists of approved courses. |                |
| <b>UF</b> 100 Foundations of Intellectual Life  | 3              |
| <b>UF</b> 200 Foundations of Ethics and Diversity   | 3              |
| <b>FW</b> ENGL 101 Writing and Rhetoric I   | 3              |
| <b>FW</b> ENGL 102 Writing and Rhetoric II  | 3              |
| <b>FC</b> Foundations of Oral Communication   | 3              |
| <b>FM</b> Foundations of Mathematics course   | 3-4            |

|  |            |
|--|------------|
| <b>FN</b> Foundations of Natural, Physical, & Applied Sciences course with lab   | 4          |
| <b>FN</b> Foundations of Natural, Physical, & Applied Sciences in a second field   | 3-4        |
| <b>FA</b> Foundations of Arts course   | 3          |
| <b>FH</b> Foundations of Humanities course   | 3-4        |
| <b>FS</b> Foundations of Social Sciences course  | 3          |
| <b>FS</b> Foundations of Social Sciences course in a second field  | 3          |
| ENGL 115 Rhetoric and Popular Culture  | 3          |
| ENGL 198 Introduction to English Studies   | 1          |
| ENGL 201 Nonfiction Writing  | 3          |
| ENGL 204 Creative Nonfiction: Genres and Contexts  | 3          |
| ENGL 212 Technical Communication   | 3          |
| ENGL 275 Methods of Literary Studies   | 3          |
| ENGL 302 Technical Rhetoric and Genres or ENGL 401 Advanced Nonfiction Writing   | 3          |
| ENGL 304 Argument  | 3          |
| ENGL 310 Writing, Advocacy, and Leadership or ENGL 408 Writing for Nonprofits and Social Media   | 3          |
| ENGL 314 Proposal Development  | 3          |
| ENGL 324 Topics in Rhetoric and Composition  | 3          |
| ENGL 329 Grammar, Style, and Writing or ENGL 403 Editing for Clear Communication   | 3          |
| ENGL 416 User-Centered Design Principles   | 3          |
| ENGL 425 Rhetoric and Society  | 3          |
| <b>FF</b> ENGL 492 Capstone in Writing, Rhetoric, and Technical Communication  | 3          |
| LING 305 Introduction to Language Studies  | 3          |
| Upper-division electives that are relevant to area of interest: ENGL or LING courses. Students should meet with their advisor to create a cohesive sequence of courses based on academic and career goals. | 15         |
| Electives to total 120 credits   | 19-22      |
| <b>Total</b>   | <b>120</b> |

| English Minor   |                |
|---|----------------|
| <i>Course Number and Title</i>  | <i>Credits</i> |
| ENGL 267 or 268 Survey of British Literature I, II                                      | 3              |
| ENGL 275 Methods of Literary Studies  | 3              |
| ENGL 277 or 278 Survey of American Literature I, II                                     | 3              |
| Upper-division linguistics course   | 3              |
| Upper-division English and/or upper-division linguistics courses                        | 6              |
| Writing course numbered 200 or higher   | 3              |
| <b>Total</b>  | <b>21</b>      |
| All courses used toward the English degree must be passed with a grade of C- or higher. |                |

## ENGLISH

| English Literature Minor  |                |
|---|----------------|
| <i>Course Number and Title</i>  | <i>Credits</i> |
| ENGL 275 Methods of Literary Studies  | 3              |
| Two (2) of the following:<br>ENGL 216 Literature and Global Consciousness<br>ENGL 267 Survey of British Literature I<br>ENGL 268 Survey of British Literature II<br>ENGL 277 Survey of American Literature I<br>ENGL 278 Survey of American Literature II | 6              |
| Upper-division ENGL courses in literature   | 9              |
| Upper-division ENGL or LING course  | 3              |
| <b>Total</b>  | <b>21</b>      |

| Linguistics Minor  |                |
|--|----------------|
| <i>Course Number and Title</i>   | <i>Credits</i> |
| LING 305 Introduction to Language Studies  | 3              |
| LING 312 Introduction to Phonetics and Phonology or<br>LING 318 Introduction to Morphology and Syntax  | 3              |
| One (1) course chosen from:<br>LING 307 Linguistics in Education<br>LING 310 First and Second Language Acquisition<br>LING 321 Introduction to Sociolinguistics<br>LING 327 Applied Linguistics in Teaching English to<br>Speakers of Other Languages<br>LING 331 The Politics of Language | 3              |
| Two additional upper-division LING electives.<br>WORLD 410 may also be used to satisfy one of these electives.<br>No more than 3 credits total of independent study, internship, or workshop.  | 6              |
| At least two semesters of language(s) other than English   | 6-8            |
| <b>Total</b>   | <b>21-23</b>   |

The Writing for Change Minor offers students the writing and research skills they need to pursue social engagement in a contemporary communication environment. Students learn to identify issues, marshal evidence, address an audience, advocate for a plan of action, and create effective written presentations in different settings and for a variety of purposes.

| Writing for Change Minor  |                |
|---|----------------|
| <i>Course Number and Title</i>  | <i>Credits</i> |
| ENGL 115 Rhetoric and Popular Culture   | 3              |
| ENGL 212 Technical Communication  | 3              |
| ENGL 304 Argument   | 3              |
| ENGL 310 Writing, Advocacy, and Leadership  | 3              |
| At least two courses from among the following:<br>ENGL 201 Nonfiction Writing<br>ENGL 303 Theory and Practice of Tutoring Writing<br>ENGL 314 Proposal Development<br>ENGL 324 Topics in Writing, Rhetoric, and Technical Communication<br>ENGL 401 Advanced Nonfiction Writing<br>ENGL 408 Writing for Nonprofits and Social Media<br>ENGL 425 Rhetoric and Society<br>ENGL 493 Internship | 6              |
| <b>Total</b>  | <b>18</b>      |

| English Teaching Endorsement   |                |
|--|----------------|
| <i>Course Number and Title</i>   | <i>Credits</i> |
| ENGL 267 or 268 Survey of British Literature I, II   | 3              |
| ENGL 275 Methods of Literary Studies   | 3              |
| ENGL 277 or 278 Survey of American Literature I, II  | 3              |
| ENGL 301 Teaching Writers In English Language Arts Classrooms  | 3              |
| ENGL 480 Integrating the English Language Arts in Curriculum and Instruction   | 3              |
| LING 305 Introduction to Language Studies  | 3              |
| Writing courses numbered 200 or higher   | 6              |
| <b>Total</b>   | <b>24</b>      |
| All courses used toward the English Teaching Endorsement must be passed with a grade of C- or higher.<br>See Department of Curriculum, Instruction, and Foundational Studies for more information. |                |

The Certificate in Technical Communication is intended to enhance the education of students who are seeking a baccalaureate degree or who already have a baccalaureate degree. The certificate consists of five courses: three required courses in technical communication, as well as two related, approved electives. Students who wish to substitute an alternative course for one of the two listed electives may petition the Director of Technical Communication.

| Technical Communication Certificate  |                |
|--|----------------|
| <i>Course Number and Title</i>   | <i>Credits</i> |
| ENGL 212 Technical Communication   | 3              |
| ENGL 403 Editing for Clear Communication   | 3              |
| ENGL 416 User-Centered Design Principles   | 3              |
| Six (6) credits of the following courses:<br>BUS 301 Leadership Skills<br>COMM 221 Interpersonal Communication<br>COMM 231 Public Speaking<br>COMM 307 Interviewing<br>COMM 356 Communication in the Small Group<br>COMM 361 Organizational Communication<br>COMM 481 Studies in Interpersonal Communication<br>ENGL 302 Technical Rhetoric and Genres<br>ENGL 303 Theory and Practice of Tutoring Writing<br>ENGL 314 Proposal Development<br>ENGL 408 Writing for Nonprofits and Social Media<br>ENGL 493 Internship<br>GIMM 100 Digital Tools for Interactivity<br>GIMM 110 Interactive Programming<br>GIMM 200 Visual Storytelling<br>GIMM 250 Interactive Storytelling<br>HRM 305 Human Resource Management<br>ITM 310 Business Intelligence<br>LING 305 Introduction to Language Studies<br>MKTG 407 Marketing Communication<br>NONPROF 240 Introduction to Nonprofit Management<br>NONPROF 340 Volunteer Management and the Nonprofit<br>SOC 390 Conflict Management<br>SOC 487 Organizational Theory and Bureaucratic Structure<br>UX 360 Working in the UX Space<br>UX 361 Ethical User Research<br>UX 362 Asking and Listening<br>UX 363 Contextual Inquiry<br>UX 364 Design Thinking for Better UX<br>UX 367 Just Enough Research | 6              |
| <b>Total</b>   | <b>15</b>      |



## Course Offerings

While the courses listed below are generally offered in the scheduling patterns indicated, factors such as staffing or demand result in some courses being offered at irregular intervals.

### ENGL—English

#### Lower Division

**ENGL 101 WRITING AND RHETORIC I (3-0-3)(F, S)(FW).** Develops students' knowledge of what writing is and how it functions in the world. Invites students to understand their writing as situated within academic, civic, and personal contexts. Immerses students in developing flexible, inquiry-based writing strategies and processes. Emphasizes reflection and metacognition. PREREQ: ENGL 123 or satisfactory placement score.

**ENGL 101M WRITING AND RHETORIC I PLUS, MULTILINGUAL (6-0-6)(F, S)(FW).** English 101 (see course description above) paired with a studio (lab) for multilingual writers. The studio is an intensive study of a variety of writing concepts and strategies designed to complement the English 101 curriculum. English 101M fulfills the graduation requirement for English 101. PREREQ: ENGL 122 or satisfactory placement score.

**ENGL 101P WRITING AND RHETORIC I PLUS (3-1-4)(F, S)(FW).** English 101 (see course description above) paired with a studio (lab) component. The studio is an intensive study of a variety of writing concepts and strategies designed to extend the English 101 curriculum. English 101P fulfills the graduation requirement for English 101. PREREQ: ENGL 101P placement.

**ENGL 102 WRITING AND RHETORIC II (3-0-3)(F, S)(FW).** Develops students' understanding of how rhetoric functions in academic and public environments. Engages students in inquiry about writing and rhetoric in action. Immerses students in the iterative processes of writing and research. Offers opportunities to reflect on and compose in specific rhetorical contexts. PREREQ: ENGL 101 or satisfactory placement score.

**ENGL 115 RHETORIC AND POPULAR CULTURE (3-0-3)(F, S).** Introduces the rhetorical strategies and persuasive techniques embedded in popular culture. Analyzes and critiques a variety of popular culture texts and artifacts (e.g., comics, digital media, games, political discourse, sports, TV shows).

**ENGL 122 ACADEMIC ENGLISH WRITING FOR SPEAKERS OF OTHER LANGUAGES, LEVEL II (3-0-3)(F, S, SU).** Practice in English composition with an emphasis on writing processes (pre-writing, drafting, revising, editing) and concepts such as audience, purpose, and thesis. Special emphasis placed on the connections between reading and writing and on developing vocabulary and grammatical complexity. (Pass/Fail. ) PREREQ: English-as-a-Second-Language placement exam recommendation.

**ENGL 123 ACADEMIC ENGLISH WRITING FOR SPEAKERS OF OTHER LANGUAGES, LEVEL III (3-0-3)(F, S, SU).** Preparation for the demands of academic writing in English. Refining communicative strategies through reading and revision. Successful completion of ENGL 123 qualifies the student for entrance into ENGL 101. (Pass/Fail. ) PREREQ: English-as-a-Second-Language placement exam recommendation or a grade of Pass (P) in ENGL 122.

**ENGL 175 LITERATURE AND IDEAS (3-0-3)(F/S/SU)(FH).** An exploration of ideas in literature and other cultural texts. Topics will vary, and texts may include film, drama, new and interactive media, poetry, fiction, graphic novels, and other literary and cultural forms.

**ENGL 198 INTRODUCTION TO ENGLISH STUDIES (1-0-1)(F, S, SU).** Introduction to the disciplines that make up English studies: creative writing, English education, linguistics, literature, rhetoric and composition, and technical communication. Topics include the principles, theoretical underpinnings, methods, and practical applications of English studies. (Pass/Fail. )

**ENGL 201 NONFICTION WRITING (3-0-3)(F, S).** Further development of skills and strategies learned in ENGL 102. Student will study and write

nonfiction prose, particularly research and persuasive writing. Writing practice will stress the writer's awareness of his or her own style and the manipulation of stylistic elements. PREREQ: ENGL 102.

**ENGL 204 CREATIVE NONFICTION: GENRES AND CONTEXTS (3-0-3)(F, S).** Students will study and write genres of creative nonfiction. Writing practice and analysis of published creative nonfiction will emphasize voice, genre, and style, with particular emphasis on a writer's rhetorical choices. PREREQ: ENGL 102.

**ENGL 211 SACRED TEXTS (3-0-3)(F/S/SU).** Applies methods of literary study to examine sacred texts from multiple traditions. PREREQ: ENGL 102.

**ENGL 212 INTRODUCTION TO TECHNICAL COMMUNICATION (3-0-3)(F, S).** Students design and create practical documents and presentations relevant to the workplace and courses in their majors. Students learn about the social and cultural aspects of communication in specific disciplines and organizations. Topics include writing effective and persuasive documents, creating technical graphics, analyzing sources of information, and conducting research. PREREQ: ENGL 102 or PERM/INST.

**ENGL 216 LITERATURE AND GLOBAL CONSCIOUSNESS (3-0-3)(F/S/SU).** A survey of literature in relation to global consciousness. Readings may encompass a wide range of texts through a globalized perspective. Students will examine how literature addresses race, gender, ethnic and national identities and reflects anthropological, historical and political contexts emerging from cultural encounters. All readings in English. PREREQ: ENGL 102.

**ENGL 217 MYTHOLOGY (3-0-3)(F/S/SU).** Mythologies and mythological concepts having most influence on Western civilization. Emphasis on Greek, Norse, and Judeo-Christian mythologies and their relation to religion, literature, art, and modern psychology. PREREQ: ENGL 102.

**ENGL 220 CHILDREN'S AND YOUNG ADULT LITERATURE (3-0-3)(F/S/SU).** Study and analysis of children's literature from multiple perspectives, including its continuing influence on contemporary genres and culture. PREREQ: ENGL 102.

**ENGL 221 LITERATURE AND ADVOCACY (3-0-3)(F/S/SU).** Study and analysis of texts engaging with advocacy, human rights, the ethics of community, and civic responsibility. PREREQ: ENGL 102.

**ENGL 261 LITERARY HISTORY I (3-0-3)(F/S/SU).** Examines worldwide literary texts to 1700. PREREQ: ENGL 102.

**ENGL 262 LITERARY HISTORY II (3-0-3)(F/S/SU).** Examines worldwide literary texts from 1700 to present. PREREQ: ENGL 102.

**ENGL 267 SURVEY OF BRITISH LITERATURE I (3-0-3)(F/S/SU).** Examines the dominant cultural movements and literary forms in England from the middle ages through the 18<sup>th</sup> century. PREREQ: ENGL 102.

**ENGL 268 SURVEY OF BRITISH LITERATURE II (3-0-3)(F/S/SU).** The reflection of social and cultural changes in the poetry and prose of Romantic, Victorian, and modern England. PREREQ: ENGL 102.

**ENGL 275 METHODS OF LITERARY STUDIES (3-0-3)(F/S/SU).** Preparation for upper-division literature courses. Engagement with principal types of literature, central questions in literary studies, and ways of conducting literary research. Emphasis on critical thinking and writing. PREREQ: ENGL 102.

**ENGL 277 SURVEY OF AMERICAN LITERATURE I (3-0-3)(F/S/SU).** Survey of selected texts from the breadth of traditions in early American literature, with its often contradictory, competing ideals and identities. Emphasizing critical reading and written analysis, the course traces the emergence of American literary thought and culture from the period of European contact up to the Civil War. PREREQ: ENGL 102.

**ENGL 278 SURVEY OF AMERICAN LITERATURE II (3-0-3)(F/S/SU).** Survey of selected texts from the breadth of traditions in later American literature, with its diversity of texts from the period's major literary movements. Emphasizing critical reading and written analysis, the course traces the continued development of American literary thought and culture from the Civil War to the present. PREREQ: ENGL 102.

## Upper Division

**ENGL 300 STUDIES IN WORLD LITERATURE (3-0-3)(F/S/SU).** Study and analysis of selected texts from world literature. All readings in English. Topics may vary. PREREQ: ENGL 275 or PERM/INST.

**ENGL 301 TEACHING WRITERS IN ENGLISH LANGUAGE ARTS CLASSROOMS (3-0-3)(S).** Students inquire into disciplinary frameworks that guide the curricular and instructional practices of teachers of writers in secondary schools. As a service learning course, students will work with writers in classroom and/or community contexts in order to apply and develop their expertise and repertoire for leading writers and understanding the choices writers make as they compose a range of texts. PREREQ: ENGL 101, ENGL 102.

**ENGL 302 TECHNICAL RHETORIC AND GENRES (3-0-3)(S).** An advanced study of the rhetoric of technical communication for technical communication emphasis students and others who are considering a career in the field. Topics include information design, technical communication ethics, instructional writing, and strategies of visual and verbal rhetoric. PREREQ: ENGL 212 or PERM/INST.

**ENGL 303 THEORY AND PRACTICE OF TUTORING WRITING (3-0-3)(F).** Preparation for tutoring for the Boise State Writing Center. Emphasis on writing processes, interpersonal dynamics, questioning techniques, evaluation of writing-in-progress, and rhetorical theory as it pertains to tutoring. PREREQ: ENGL 102 and PERM/INST. COREQ: ENGL 493: Internship in Writing Center.

**ENGL 304 ARGUMENT (3-0-3)(F, S).** Study of various kinds of arguments and overview of the history and terminology of argument. Allows students to workshop their own argumentative writing and develop communication skills in the field of English, specifically the field of rhetoric and composition. PREREQ: ENGL 102 and ENGL 198, or PERM/INST.

**ENGL 307 LITERARY TRANSLATION (3-0-3)(Intermittently).** Exploration of the theory and practice of literary translation. Students will translate short works of literature and discuss them in a workshop format. Languages and genres translated vary with instructor. May be taken twice for credit.

**ENGL 310 WRITING, ADVOCACY, AND LEADERSHIP (3-0-3)(S).** Study and apply literacy theories appropriate to professional writing in organizations and communities. Analyzes formal and informal learning in a variety of settings beyond the classroom. PREREQ: ENGL 102.

**ENGL 314 PROPOSAL DEVELOPMENT (3-0-3)(F, S).** Study of principles of effective proposal development and grant writing for a variety of business and nonprofit contexts. Students will practice developing proposals, identifying funding sources, creating proposals in response to requests/calls for proposals, and giving appropriate oral presentations. PREREQ for English majors: ENGL 102, ENGL 198, and ENGL 212. PREREQ for non-English majors: ENGL 102, ENGL 212 or AE 201, or PERM/INST.

**ENGL 316 CONTEMPORARY AMERICAN LITERATURE (3-0-3)(F/S/SU).** Study and analysis of contemporary American literature with a focus on emerging trends and developments. PREREQ: ENGL 275.

**ENGL 318 BODY POLITICS (3-0-3)(F/S/SU).** Study and analysis of literature in connection with other disciplines, such as new media studies, sociology, history, political science, law, or medicine, to examine the body as a contested site of pleasure, oppression, and identity formation. PREREQ: GENDER 200 or ENGL 275.

**ENGL 324 TOPICS IN WRITING, RHETORIC, AND TECHNICAL COMMUNICATION (3-0-3)(F).** Topic will differ by semester. Draws from areas such as composition theory; rhetorical theory/ history; cultural studies; literacy, media, and race/gender/class/ethnicity studies; and current trends in technical communication. May be repeated for a total of six credits. PREREQ: ENGL 102.

**ENGL 326 (ART 326)(CW 326) BOOK ARTS (3-0-3)(F, S, SU).** A practical exploration of the history of books as conduits of meaning and as physical objects. Papermaking, typography, printing, binding, authorship, and contemporary bookworks will be examined on both theoretical and practical

levels. Students produce a classroom edition. May be taken for ENGL or ART credit, but not both. PREREQ for CW 326: ENGL 102; for ENGL 326: ENGL 102; for ART 326: Admission to Visual Art, ART 108.

**ENGL 329 GRAMMAR, STYLE, AND WRITING (3-0-3)(S).** Explores grammar, structure, and style through classical and modern rhetorical texts and student writing. Students compose and revise their own academic and creative work. Workshop format. PREREQ: ENGL 102 or PERM/INST.

**ENGL 338 LITERATURE IN TRANSLATION (3-0-3)(F/S/SU).** Study and analysis of literature in translation into English. PREREQ: ENGL 275 or PERM/INST.

**ENGL 340 CHAUCER (3-0-3)(F/S/SU).** Emphasis on *The Canterbury Tales* and *Troilus and Criseyde*. Also representative minor works. PREREQ: ENGL 275 or PERM/INST.

**ENGL 341 MEDIEVAL LITERATURE (3-0-3)(F/S/SU).** Study and analysis of medieval European literature. PREREQ: ENGL 275 or PERM/INST.

**ENGL 345 SHAKESPEARE (3-0-3)(F/S/SU).** Study and analysis of selected works of Shakespeare. PREREQ: ENGL 275 or PERM/INST.

**ENGL 350 BRITISH RENAISSANCE LITERATURE (3-0-3)(F/S/SU).** Study and analysis of sixteenth- and seventeenth-century British literature. PREREQ: ENGL 275 or PERM/INST.

**ENGL 351 MILTON (3-0-3)(F/S/SU).** A study of John Milton's major poetry and prose, with special emphasis on *Paradise Lost*, *Paradise Regained*, and *Samson Agonistes*. PREREQ: ENGL 275 or PERM/INST.

**ENGL 358 EIGHTEENTH-CENTURY BRITISH LITERATURE (3-0-3)(F/S/SU).** Study and analysis of eighteenth-century British literature. PREREQ: ENGL 275 or PERM/INST.

**ENGL 360 BRITISH ROMANTIC LITERATURE (3-0-3)(F/S/SU).** Study and analysis of nineteenth-century British Romantic literature. PREREQ: ENGL 275 or PERM/INST.

**ENGL 365 VICTORIAN LITERATURE (3-0-3)(F/S/SU).** Study and analysis of nineteenth-century Victorian literature. PREREQ: ENGL 275 or PERM/INST.

**ENGL 375 EARLY AMERICAN LITERATURE (3-0-3)(F, S, SU).** Study and analysis of early American literature. PREREQ: ENGL 275 or PERM/INST.

**ENGL 377 AMERICAN RENAISSANCE (3-0-3)(F/S/SU).** Study and analysis of literature from the period of the American Renaissance. PREREQ: ENGL 275 or PERM/INST.

**ENGL 378 AMERICAN REALISM (3-0-3)(F/S/SU).** Study and analysis of literature from the period of American Realism. PREREQ: ENGL 275 or PERM/INST.

**ENGL 380 TEACHING READERS OF LITERARY TEXTS IN ENGLISH LANGUAGE ARTS CLASSROOMS (3-0-3)(F).** Students inquire into disciplinary frameworks that guide the curricular and instructional practices of teachers of readers of literary texts in secondary schools. As a service learning course, students will work with readers in classroom and/or community contexts in order to apply and develop their expertise and repertoire for leading readers of literary texts. PREREQ: ENGL 275.

**ENGL 384 LITERATURE OF THE AMERICAN WEST (3-0-3)(F, S, SU).** Study and analysis of literature inspired by contact of various peoples with the American West. PREREQ: ENGL 275 or PERM/INST.

**ENGL 386 MODERN AND CONTEMPORARY BRITISH LITERATURE (3-0-3)(F, S, SU).** Study and analysis of twentieth- and twenty-first-century British literature. PREREQ: ENGL 275 or PERM/INST.

**ENGL 387 MODERN AND POST-MODERN AMERICAN LITERATURE (3-0-3)(F/S/SU).** Study and analysis of twentieth-century American literature. PREREQ: ENGL 275 or PERM/INST.

**ENGL 390 ETHNIC LITERATURE (3-0-3)(F/S/SU).** Study and analysis of the roles of ethnic and racial consciousness in literature. PREREQ: ENGL 275 or PERM/INST.

**ENGL 392 FILM AND LITERATURE (3-0-3)(F/S/SU).** Comparative study of literature and cinema as aesthetic media. Topics vary each time the course is taught and may be focused on period, genre, style/technique, or cultural context. PREREQ: ENGL 275 or PERM/INST.

**ENGL 393 LITERARY CRITICISM AND THEORY (3-0-3)(F/S/SU).** Study, analysis, and application of a range of critical theories and their historical antecedents. PREREQ: ENGL 275 or PERM/INST.

**ENGL 394 LITERATURE AND ENVIRONMENT (3-0-3)(F/S/SU).** Study and analysis of the interplay between humans, non-humans, and their environments in literature. PREREQ: ENGL 275 or PERM/INST.

**ENGL 395 WOMEN WRITERS (3-0-3)(F/S/SU).** Study and analysis of literature by women. PREREQ: ENGL 275 or PERM/INST.

**ENGL 396 POSTCOLONIAL LITERATURE (3-0-3)(F/S/SU).** Study and analysis of colonial and postcolonial cultures in literature. PREREQ: ENGL 275 or PERM/INST.

**ENGL 398 HONORS SYMPOSIUM IN ENGLISH (3-0-3)(F/S/SU).** Inquiry-based English Studies course for Honors students, with readings, research, and writing focused on an issue of fundamental human concern. Topics vary. PREREQ: PERM/INST.

**ENGL 401 ADVANCED NONFICTION WRITING (3-0-3)(F).** Advanced practice in nonfiction genres, and study of how writers read and learn from other writers. Focuses on presenting and designing advanced inquiry-based research and critical response as well as language. PREREQ: ENGL 201 or ENGL 204.

**ENGL 402 ASSESSING READERS AND WRITERS IN SECONDARY CLASSROOMS (3-0-3)(S).** Students develop and apply theories, research, and strategies related to the multiple ways assessments serve as learning opportunities for readers and writers in secondary classrooms. Students create, adapt, and revise reading and writing assessment tools and practices to identify and build on the strengths and resources that readers and writers bring individually and collectively to inclusive and participatory secondary classrooms. COREQ: ED-CIFS 302.

**ENGL 403 EDITING FOR CLEAR COMMUNICATION (3-0-3)(F).** An introduction to editing workplace documents so that audiences can understand them easily and use them efficiently. Topics include copyediting, comprehensive editing, proofreading, principles of plain language, working with authors, and preparing documents for publication. PREREQ: ENGL 212 or PERM/INST.

**ENGL 408 WRITING FOR NONPROFITS AND SOCIAL MEDIA (3-0-3)(F).** Study of content strategy for businesses and nonprofits. Students will produce basic print documents, such as brochures, data sheets, and flyers, and they will develop social media content in projects for clients or service-learning partners. PREREQ: ENGL 212 or SPS 301 or UX 362 or PERM/INST.

**ENGL 416 USER-CENTERED DESIGN PRINCIPLES (3-0-3)(F, S).** User-centered design focuses on the relationships between people and the products, services, and systems that they use. Students will learn how users interact with their virtual environments and how to plan, develop, and conduct usability tests to solve specific problems. Topics, which borrow from fields including psychology, human factors, and usability engineering, include user prototyping, interface design, accessibility, and information structuring. PREREQ: ENGL 212 or UX 362 or PERM/INST.

**ENGL 424 ADVANCED TOPICS IN LITERATURE (3-0-3)(F/S/SU).** Topic and focus vary. May be repeated for a total of six credits. PRE/COREQ: ENGL 393, Senior Standing or PERM/INST.

**ENGL 425 RHETORIC AND SOCIETY (3-0-3)(F).** Uses rhetorical theories to analyze relationships between power, identity, and culture in social contexts. Students examine and explore case studies of rhetorical situations to develop a deeper understanding of participation in the community and beyond. Areas may include social movements, mainstream media, political discourses, and digital spaces. PREREQ: ENGL 304.

**ENGL 430 SEMINAR IN FICTION (3-0-3)(F/S/SU).** Advanced study and analysis of fiction. Topic and focus vary. May be repeated for a total of six credits. PRE/COREQ: ENGL 393, senior standing, or PERM/INST.

**ENGL 431 SEMINAR IN POETRY (3-0-3)(F/S/SU).** Advanced study and analysis of poetry. Topic and focus vary. May be repeated for a total of six credits. PRE/COREQ: ENGL 393, senior standing or PERM/INST.

**ENGL 432 SEMINAR IN NONFICTION (3-0-3)(F/S/SU).** Advanced study and analysis of nonfiction. Topic and focus vary. May be repeated for a total of six credits. PRE/COREQ: ENGL 393, senior standing or PERM/INST.

**ENGL 433 SEMINAR IN DRAMA (3-0-3)(F/S/SU).** Advanced study and analysis of drama. Topic and focus vary. May be repeated for a total of six credits. PRE/COREQ: ENGL 393, senior standing or PERM/INST.

**ENGL 480 INTEGRATING THE ENGLISH LANGUAGE ARTS IN CURRICULUM AND INSTRUCTION (3-0-3)(F).** Students create, adapt, and revise instructional plans that integrate the English language arts: reading, writing, listening, speaking, viewing, and representing. Students create curricular unit plans that provide opportunities for diverse learners to participate in inclusive and dialogic communities. COREQ: ED-CIFS 401, ED-LLC 444.

**ENGL 492 CAPSTONE IN WRITING, RHETORIC, AND TECHNICAL COMMUNICATION (3-0-3)(F, S)(FF).** Extensive revision of previous written work in writing, rhetoric, and technical communication courses and creation of portfolio. PREREQ: Senior standing and PERM/INST.

**ENGL 495 ENGLISH LANGUAGE ARTS STUDENT TEACHER INQUIRY COMMUNITY (1-0-1)(S)(FF).** Students reflect on and inquire into interactions with learners in secondary English language arts classrooms and implementation of instructional plans and practices with a community of colleagues. This course supports students' classroom teaching during the student teaching semester. COREQ: ED-CIFS 484 or ED-CIFS 485.

**ENGL 498 SENIOR CAPSTONE IN LITERARY STUDIES (3-0-3)(F/S)(FF).** Capstone course for literature majors. A culminating experience course for literature emphasis students that focuses on writing, critical inquiry, and teamwork. PREREQ: Senior standing, PRE/COREQ ENGL 393, a minimum of 3 credits in ENGL 424, ENGL 430, ENGL 431, ENGL 432, or ENGL 433, or PERM/INST.

**ENGL 499 CAPSTONE IN TECHNICAL COMMUNICATION (3-0-3)(S)(FF).** A culminating experience course that focuses on writing, critical inquiry, and teamwork. This course covers the study and application of principles for creating a portfolio consisting of print and on-screen documents. Addresses strategies for working successfully as a technical communicator in industry. Topics include content design and organization, collaboration, writing style, graphic design, principles of Web design, online help systems, and usability testing. PREREQ: ENGL 302 and senior standing or PERM/INST.

## HUM—Humanities

**HUM 150, HUM 250 RESIDENTIAL COLLEGE: ARTS AND HUMANITIES (1-0-1)(F, S).** Activities to explore ideas in the visual arts, performing arts, literature, philosophy, and music. Reflection on the human condition as it is revealed through the arts, literature, and philosophy. May be repeated for credit. PREREQ: PERM/INST.

**HUM 207 INTRODUCTION TO HUMANITIES (3-0-3)(F/S)(FH).** An interdisciplinary exploration of human intellectual and creative heritage as expressed in literature, music, philosophy and/or the visual and performing arts. Emphasis on the intersection of liberal arts and critical thinking. PREREQ: ENGL 102 or PERM/INST.

## LING—Linguistics

**LING 205 LANGUAGE IN HUMAN LIFE (3-0-3)(F, S, SU)(FS).** An overview of the complex nature of language, its capacity for change, its natural diversity, and its fundamental role in our participation in social life. Students will reflect on common beliefs about language and learn new ways to examine this uniquely and universally human activity. This course is designed as a cross-cultural course and welcomes students from U.S. and international backgrounds.

**LING 301 HISTORY OF THE ENGLISH LANGUAGE (3-0-3)(F, S, SU).** A study of the periods in the development of English; Indo-European and Germanic backgrounds; development of writing; internal and social forces of

## ENGLISH

change; dialects of English. Concentrated work with written documents in English language history. PREREQ: ENGL 102 or PERM/INST.

**LING 305 INTRODUCTION TO LANGUAGE STUDIES (3-0-3)(F, S, SU).** A general survey of contemporary language study as it is carried on in the fields of linguistics, anthropology, and psychology, with emphasis on meaning, sounds, words, and sentence formation in English. PREREQ: ENGL 102 or PERM/INST.

**LING 306 MODERN ENGLISH GRAMMAR (3-0-3)(F/S)(Even years).** An approach to modern English grammar based on linguistic principles. The course will cover word formation and sentence structure, including transformational, structural, and newly developing theories of grammar. PREREQ: LING 305 or PERM/INST.

**LING 307 LINGUISTICS IN EDUCATION (3-0-3)(F, S, SU).** A survey of applied linguistics with emphasis on theories, concepts, and methods relevant to the teaching of English. Topics include word meaning, language variation, language and context, oral and written discourse, writing systems, literature analysis, dictionaries and grammars, bilingualism, and language planning and problems in teaching English as a first and second language. PREREQ: LING 305 or PERM/INST.

**LING 310 FIRST AND SECOND LANGUAGE ACQUISITION (3-0-3)(F, S, SU).** An introduction to natural first-language acquisition processes, including the development of phonological, morphological, semantic, syntactic, and pragmatic systems. The course will also examine the acquisition of additional languages by both children and adults, with some attention paid to implications for teaching. PREREQ: LING 305 or PERM/INST.

**LING 312 INTRODUCTION TO PHONETICS AND PHONOLOGY (3-0-3)(S).** Survey of the fields of phonetics and phonology. Topics in phonetics include: familiarization with the articulation and transcription of speech sounds, vocal tract anatomy, acoustics, hearing and perception. Topics in phonology include: The role of phonemes, phonological analysis, features, and syllable structure. Includes laboratory exercises. PREREQ: LING 305 or PERM/INST.

**LING 318 INTRODUCTION TO MORPHOLOGY AND SYNTAX (3-0-3)(F).** This course employs linguistic principles to study morphology and syntax. Rather than focus on prescribed grammar, this class focuses on descriptive grammar. Students will examine the morphological and syntactic structures in terms of abstract categories and theory, with illustrations from various languages. PREREQ: LING 305 or PERM/INST.

**LING 321 INTRODUCTION TO SOCIOLINGUISTICS (3-0-3)(F, S, SU).** Provides an introduction to the nature of the relationships among language, culture, and society. Major topics explored are language and thought; conversational theory; the ethnography of communication; language change; language variation; speech communities; pidgins and creoles; diglossia, code switching and mixing; and solidarity and politeness. Several languages are examined in specific social and cultural contexts. PREREQ: LING 305.

**LING 327 APPLIED LINGUISTICS IN TEACHING ENGLISH TO SPEAKERS OF OTHER LANGUAGES (3-0-3)(F/S)(Alternate years).**

Introduction to theories and methods of second language learning and teaching. The course examines the social, historical, and cultural contexts that shape language and language acquisition; relationships between first and second language acquisition; ways in which classroom practices can facilitate acquisition; and the role of individual learner identities in successful second language acquisition. PREREQ: LING 305 or PERM/INST.

**LING 331 THE POLITICS OF LANGUAGE (3-0-3)(F, S, SU).** An overview of connections between language and power in social and political arenas. Emphasis on how language and the construction of racial, gender, and other social categories go hand in hand, and how linguists, policymakers, educators, and different "factions" within the general public talk about linguistic issues differently. PREREQ: LING 305 or PERM/INST.

**LING 403 CORPUS LINGUISTICS (3-0-3)(F/S)(Alternate years).** An introduction to corpus linguistics, an area of language studies that uses computer technology to aid in the collection, storage, and analysis of spoken and written texts. PREREQ: LING 305 and one additional upper-division linguistics course.

**LING 406 PSYCHOLINGUISTICS (3-0-3)(F, S, SU).** The study of language in relation to mind and cognition. Topics include the relationship between language, thought, and memory; language acquisition; language disorders; and the psychological processes involved in speaking, listening, reading, writing, and spelling. PREREQ: LING 312 and LING 318 or PERM/INST.

**LING 418 LINGUISTIC TYPOLOGY (3-0-3)(F/S)(Alternate years).** Linguistic typology involves exploring linguistic diversity through the systematic comparison and classification of language structures and their associated functions. Offers a broad overview of the field and experience in exploring structural properties of individual languages from a typological perspective. PREREQ: LING 318.

**LING 424 ADVANCED TOPICS IN LINGUISTICS (3-0-3)(F, S, SU).** Topic and focus may vary. May be repeated for up to six credits. PREREQ: LING 305 and at least three credits of 300-level LING courses or PERM/INST.

**LING 427 PEDAGOGICAL GRAMMAR (3-0-3)(F/S)(Alternate years).** An examination of issues related to the teaching of grammar in second language contexts, with a particular emphasis on the description of grammar systems, the acquisition of grammar by second language learners, and the relative effectiveness of different instructional approaches. PREREQ: LING 310 or LING 318 or LING 306 or PERM/INST.

**LING 498 CAPSTONE IN LINGUISTICS (3-0-3)(S)(FF).** A culminating experience reviewing the different subfields of linguistics through the documentation of an unfamiliar language. Required of all English, Linguistics emphasis majors. PREREQ: Senior standing or PERM/INST.

# Environmental Studies

School of Public Service

Environmental Research Building, Room 1143

(208) 426-2549 (phone)

<https://www.boisestate.edu/sps-environmental/> (website)

*Director:* Emily Wakild. *Faculty Advisory Board:* Kevin Ausman, Jesse Barber, Shawn Benner, Lisa Brady, Tom Hillard, Lee Parton, Jen Pierce, Rebecca Som Castellano, John Ziker. *Core Faculty:* Saleh Ahmed, Luke Fowler, John Freemuth, Monica Hubbard, Libby Lunstrum, Lisa Meierotto, Jillian Moroney, Krista Paulsen, Mari Rice.

## Degrees Offered

- Bachelor of Arts in Environmental Studies
- Minor in Environmental Studies

## Program Statement

The Bachelor of Arts degree in Environmental Studies is an interdisciplinary liberal arts degree that prepares students to explain and address environmental issues from multiple perspectives. While providing students with a basic foundation in natural and physical sciences, the degree focuses mainly on humanistic and social science theories and methods of integrating knowledge across these systems. The Environmental Studies major requires the completion of a core set of problem-based classes that train students to conduct research, integrate theory and practice, and apply knowledge to the development of solutions or recommended adaptations. The Environmental Studies major further includes a selection of classes from departments across campus that build expertise in human and natural systems. Students complete a two-credit experiential learning component that allows them to put into practice expertise earned in coursework. Majors participate in a capstone research experience that integrates team-based collaboration with the iterative process of problem-solving. Within this framework, Environmental Studies majors have the flexibility to select electives and design areas of emphasis that meet their own academic and career goals. The Environmental Studies program provides excellent preparation for law school, graduate school, or jobs in environmental organizations, non-governmental organizations, governmental agencies, or industry.

## Degree Requirements

| Environmental Studies<br>Bachelor of Arts   |         |
|---|---------|
| Course Number and Title   | Credits |
| University Foundations requirements indicated in bold. See page 48 for details and lists of approved courses.   |         |
| <b>UF 100</b> Foundations of Intellectual Life  | 3       |
| <b>UF 200</b> Foundations of Ethics and Diversity   | 3       |
| <b>FW ENGL 101</b> Writing and Rhetoric I   | 3       |
| <b>FW ENGL 102</b> Writing and Rhetoric II  | 3       |
| <b>FC</b> Foundations of Oral Communication   | 3       |
| <b>FM MATH 143</b> College Algebra  | 3       |
| <b>FN BIOL 191</b> Biology I: Intro to Cell and Molecular Biology   | 4       |
| <b>FN GEOL 101</b> Physical Geology or<br><b>FN GEOS 101</b> Global Environmental Science   | 4       |
| <b>FA</b> Foundations of Arts course  | 3       |
| <b>FH</b> Foundations of Humanities course  | 3-4     |
| <b>FS ECON 202</b> Principles of Microeconomics   | 3       |
| <b>FS</b> Foundations of Social Sciences course in a second field   | 3       |
| ENVSTD 121 Introduction to Environmental Studies  | 3       |
| ENVSTD 200 Environmental Approaches and Methods   | 3       |
| ENVSTD 300 Environmental Management and Analysis  | 3       |
| <b>FF ENVSTD 492</b> Capstone Seminar   | 3       |
| GEOG 360* Intro to Geographic Information Systems   | 3       |
| HIST 223 Introduction to Environmental History  | 3       |
| SPS 200 Problem Solving in Public Service   | 3       |
| SPS 240 Data in Public Service  | 3       |
| SPS 301 Engagement and Empathy in Public Service  | 3       |
| Experiential Learning. Choose two (2) credits from:<br>Additional courses from list can count towards Environmental Options.<br>A course cannot be used to fulfill more than one requirement.<br>ENVSTD 493 Internship<br>SPS 395 Public Service Studio<br>URBAN 489 Investigate Boise<br>URBAN 490 Urban Studies Field School<br>VIP 400 Vertically Integrated Projects  | 2       |
| Introduction to Scientific Systems. Choose two (2) courses from:<br>BIOL 192 Biology II: Introduction to the Diversity of Life<br>CHEM 111 General Chemistry I<br>ENVSTD 220 Intro to Global Environmental Change<br>EOHS 230 Intro to Environmental Health<br>GEOG 200 The Global Neighborhood<br>GEOG 213 Atmosphere and Weather<br>GEOS 201 Intro to Oceanography<br>HES 220 Systems Thinking and Sustainability<br>URBAN 201 Planning and the Environment | 6-8     |
| Economic Systems. Choose one (1) course from:<br>Additional courses from list can count towards Environmental Options.<br>A course cannot be used to fulfill more than one requirement.<br>ECON 333 Natural Resource Economics<br>ECON 474 Sustainability and Economic Policy<br>URBAN 370 Urban Economic Development Policy  | 3       |
| Social Systems. Choose one (1) course from:<br>Additional courses from list can count towards Environmental Options.<br>A course cannot be used to fulfill more than one requirement.<br>ANTH 314 Environmental Anthropology<br>GLOBAL 304 Sustainable Futures<br>SOC 440 Environmental Sociology   | 3       |

## ENVIRONMENTAL STUDIES

|  |       |
|--|-------|
| Political Systems. Choose one (1) course from:<br>Additional courses from list can count towards Environmental Options.<br>A course cannot be used to fulfill more than one requirement.<br>ENVSTD 450 Policy for the Environment<br>PHIL 327 Environmental Ethics<br>POLS 409 Environmental Politics  | 3     |
| Cultural Systems. Choose one (1) course from:<br>Additional courses from list can count towards Environmental Options.<br>A course cannot be used to fulfill more than one requirement.<br>ENVSTD 430 Environmental Justice<br>HIST 351 North American Environmental History<br>URBAN 420 Public Place and Placemaking   | 3     |
| Advanced Scientific Systems. Choose one (1) course from:<br>Additional courses from list can count towards Environmental Options.<br>A course cannot be used to fulfill more than one requirement.<br>*BIOL 304 Biology III: Foundations of Ecology and Evolution<br>ENVSTD 420 Contemporary Debates on Global Environmental Change<br>EOHS 334 Environmental Health Management<br>GEOG/GEOS 370 Volcanoes and Society<br>GEOS 305 Global Climate Change   | 3-4   |
| Environmental Options. Choose two (2) courses from:<br>ANTH 307, ANTH 314, ANTH 418, BIOL 304, BIOL 323, BIOL 422, BIOL 434, BIOL 435, BOT 305, COMM 361, COMM/CONFLICT/SOC 390, ECON 333, ECON 432, ECON 474, *ENGL 384, *ENGL 394, EOHS 332, EOHS 334, ENVSTD 410, ENVSTD 420, ENVSTD 430, ENVSTD 435, ENVSTD 440, ENVSTD 441, ENVSTD 450, ENVSTD 460, ENVSTD 470, ENVSTD 493, ENVSTD 494, ENVSTD 498, GEOG 321, GEOG 361, GEOG 460, GEOS 305, GEOS/GEOS 370, *GEOS 470, GLOBAL 304, GLOBAL 330, HES 400, HIST 321, HIST 345, HIST 351, HIST 376, HIST 389, MEDIA 301, *PHIL 327, POLS 409, POLS 434, SOC 425, SOC 426, SOC 440, SOC 445, SPS 340, SPS 395, SPS 495, URBAN 320, URBAN 350, URBAN 370, URBAN 371, URBAN 390, URBAN 410, URBAN 415, URBAN 420, URBAN 425, URBAN 489, URBAN 490<br>*These courses have a prerequisite that is not for the major, but is required prior to taking this course. | 6-8   |
| Upper-division electives to total 40 credits   | 0-3   |
| Electives to total 120 credits   | 15-21 |
| Total  | 120   |

| Environmental Studies Minor   |         |
|---|---------|
| Course Number and Title   | Credits |
| ENVSTD 121 Introduction to Environmental Studies  | 3       |
| ENVSTD 200 Environmental Approaches and Methods   | 3       |
| ENVSTD 300 Environmental Solutions in Practice  | 3       |
| Environmental Systems Options<br>Choose 12 credits from:<br>ANTH 307, ANTH 314, ANTH 418, *BIOL 304, *BIOL 323, *BIOL 422, *BIOL 434, *BIOL 435, *BOT 305, COMM 361, COMM/CONFLICT/SOC 390, ECON 333, ECON 431, ECON 432, ECON 474, *ENGL 384, *ENGL 394, EOHS 332, EOHS 334, *EOHS 336, ENVSTD 410, ENVSTD 420, ENVSTD 430, ENVSTD 435, ENVSTD 440, ENVSTD 441, ENVSTD 450, ENVSTD 460, ENVSTD 470, ENVSTD 492, ENVSTD 494, ENVSTD 498, GEOG 321, GEOG 361, GEOG 460, GEOS 305, GEOS/GEOS 370, *GEOS 470, GLOBAL 304, GLOBAL 330, HES 400, HIST 321, HIST 345, HIST 351, HIST 376, HIST 389, MEDIA 301, PHIL 327, POLS 409, POLS 434, SOC 425, SOC 426, SOC 440, SOC 445, SPS 340, SPS 395, SPS 495, URBAN 320, URBAN 350, URBAN 370, URBAN 371, URBAN 390, URBAN 410, URBAN 415, URBAN 420, URBAN 425, URBAN 489, URBAN 490<br>*These courses have a prerequisite that is not for the minor, but is required prior to taking this systems course. | 12      |
| Total   | 21      |

## Course Offerings

### ENVSTD—Environmental Studies

#### Lower Division

**ENVSTD 121 INTRODUCTION TO ENVIRONMENTAL STUDIES (3-0-3)(F, S)(FN).** Introduction to the interdisciplinary nature of environmental concepts and issues. Integrates scientific, socio-political, and humanistic approaches to the understanding of nature and of how humans interact with the rest of nature.

**ENVSTD 200 ENVIRONMENTAL APPROACHES AND METHODS (3-0-3)(F/S).** Introduction to problem-based learning using senses of place and concepts of justice to practice refining an environmental problem, seeking knowledge, consulting experts, collaborating on solutions, producing a proposal, and reflecting on the process. PRE/COREQ: ENVSTD 121.

**ENVSTD 220 INTRODUCTION TO GLOBAL ENVIRONMENTAL CHANGE (3-0-3) (F/S/SU).** Explores the most consequential forms of contemporary global environmental change (GEC) such as climate change, agriculture, urbanization, and biodiversity loss. Drawing on the social sciences, policy, humanities, and physical sciences, this interdisciplinary course examines the causes of these changes, their impacts, and how we can address them.

#### Upper Division

**ENVSTD 300 ENVIRONMENTAL MANAGEMENT AND ANALYSIS (3-0-3)(F/S).** Investigation of environmental projects carried out by local agencies and organizations. Explores how different stakeholders prioritize different environmental issues and how prescribed remedies vary. Refines and expands on problem-solving practices in community setting. Includes experience integrating knowledge from science and society. PREREQ: upper-division standing.

**ENVSTD 410 ENERGY AND THE ENVIRONMENT (3-0-3)(F/S).** Examines changing energy portfolios and the environmental and social implications changes. Socio-technical systems perspective emphasizing interconnections among technology, policy, and social change. Explores tensions associated with infrastructure scale, path dependence, and energy justice. Considers the evolving public policy response to issues at the local, state, regional, national, and international level. PREREQ: upper-division standing or PERM/INST.

**ENVSTD 420 CONTEMPORARY DEBATES ON GLOBAL ENVIRONMENTAL CHANGE (3-0-3)(F/S).** Provides advanced exploration of key debates surrounding Global Environmental Change (GEC) including climate change, deforestation, agriculture, biodiversity loss, and urbanization. Draws from social sciences, natural sciences, policy, and humanities to examine interactions between human and natural systems. Explores how these interactions both provoke GEC and inspire novel solutions. PREREQ: upper-division standing or PERM/INST.

**ENVSTD 430 ENVIRONMENTAL JUSTICE (3-0-3)(F/S).** Examines challenges and controversies associated with unequal distribution of environmental risks and hazards across communities. Explores the social, industrial, and economic forces that create inequitable burdens of environmental pollution as well as movements to reduce such burdens. Focus on the United States, readings include cases from around the world. PREREQ: upper-division standing or PERM/INST.

**ENVSTD 435 GLOBAL MIGRATION AND THE ENVIRONMENT (3-0-3)(F/S).** Environmental change influences how human populations move around the world. Natural disasters, resource degradation, and unequal access to services motivate migration. Explores contemporary migration including rural to urban transitions. Considers why people move, where they go, how they get there, and the environmental impact on receiving communities. PREREQ: upper-division standing or PERM/INST.

**ENVSTD 440 NATURE CONSERVATION IN A GLOBAL PERSPECTIVE (3-0-3)(F/S).** Explores historical origins and contemporary debates over the protection of nature. Considers the moral and ethical role of

conservation across different landscapes, species, and cultures. Evaluates the development of parks and protected areas globally including management and community conflicts and challenges. Draws upon textual, visual, multimedia, and film sources. PREREQ: upper-division standing or PERM/INST.

**ENVSTD 441 ANIMALS IN TIME AND SPACE (3-0-3)(F/S).** Humans, throughout time, have taken nonhuman animals seriously, as friends, foes, feasts, beasts, symbols, commodities, and more. This class will examine how humans and their environments have been shaped by interactions with other animals. It is comparative, spiraling through time and around the world to look at animals in relation to colonial and modern societies and in the oceans. PREREQ: upper-division standing or PERM/INST.

**ENVSTD 450 POLICY FOR THE ENVIRONMENT (3-0-3)(F/S).** Provides an overview of policy processes for the environment, including policymaking and implementation at local, regional, national and/or international scales. Examines political and institutional barriers and opportunities to policy choices and corresponding impacts on the environment. Emphasis placed on variety of stakeholders involved in decision-making and the inherent conflicts that emerge. PREREQ: upper-division standing or PERM/INST.

**ENVSTD 460 THE DIRT ON DEVELOPMENT: ENVIRONMENTAL APPROACHES TO INTERNATIONAL DEVELOPMENT (3-0-3)(F/S).** Provides overview of global development at multiple scales, including approaches by United Nations, nonprofit organizations, tribal communities, and the civic sector. Explores framing and pursuing development targets and goals including climate, health, microenterprise, lands, water, and hazards. Emphasis given to systems approaches to sustainability and equity. PREREQ: upper-division standing or PERM/INST.

**ENVSTD 470 CLIMATE, JUSTICE, AND THE COMMONWEALTH (3-0-3)(F/S).** Overview of social science approaches to understanding and researching climate change adaptation, social impacts of climate change, and communities of resilience. Examines human rights issues, literary and social responses, and concepts of justice behind climate crises and conflicts. PREREQ: upper-division standing or PERM/INST.

**ENVSTD 492 CAPSTONE SEMINAR (3-0-3)(F, S)(FF).** Capstone course that integrates science, policy, and the social sciences to address a real-life problem. Students will identify a problem, gather data, consult with experts, study policy, then recommend a solution. PRE/COREQ: ENVSTD 300 or PERM/INST.

**ENVSTD 498 SEMINAR IN ENVIRONMENTAL STUDIES (1-3 credits) (F, S, SU).** A small class experience that is relevant to Environmental Studies. May be repeated for credit.

## Department of Finance

*College of Business and Economics*

Micron Business and Economics Building, Room 3130  
(208) 426-3491 (phone)  
cobe-finance@boisestate.edu (email)  
<https://www.boisestate.edu/cobe-finance/> (website)

*Chair:* Troy Hyatt. *Professors:* Harvey, Schooley-Pettis. *Associate Professor:* Egginton. *Assistant Professors:* Allen, Huang, Li, McBrayer. *Lecturer:* Bourff.

### Degrees Offered

- Bachelor of Business Administration in Finance
- Minor in Finance

### Department Statement

Students majoring in finance take a general program of study that includes courses that emphasize the three main areas of finance: corporate finance, investment and portfolio management, and financial institutions. Finance courses prepare students for financial decision making using accounting and market information within a framework of economic theory. A major in finance prepares you to deal with a wide range of financial situations, including those that concern businesses, individuals, and government.

The goal of the Department of Finance is to prepare students for careers in today's business world or for graduate school by helping them develop fundamental knowledge and skills in finance. The curriculum for this major addresses current business trends and the developing global economy through such courses as international finance and occasional special topics courses. Students gain practical experience through internships at local companies and case studies in finance courses. These activities teach students to identify and solve business problems typical of today's rapidly changing business environment.

### Admission Requirements

Students interested in pursuing a degree in the College of Business and Economics (COBE) must be a pre-business major and complete the COBE admission requirements prior to the declaration of a major in a degree completion program. Admission to COBE is required before a student may enroll in most upper-division business and economics courses.

For details on the COBE admission requirements, see Pre-Business on page 268.

## Degree Requirements

| Finance<br>Bachelor of Business Administration  |                |
|---|----------------|
| <i>Course Number and Title</i>  | <i>Credits</i> |
| University Foundations requirements indicated in bold. See page 48 for details and lists of approved courses. |                |
| <b>UF 100</b> Foundations of Intellectual Life  | 3              |
| <b>UF 200</b> Foundations of Ethics and Diversity   | 3              |
| <b>FW ENGL 101</b> Writing and Rhetoric I   | 3              |
| <b>FW ENGL 102</b> Writing and Rhetoric II  | 3              |
| <b>FC</b> Foundations of Oral Communication   | 3              |
| <b>FM MATH 160</b> Survey of Calculus or<br><b>FM MATH 170</b> Calculus I                                     | 4              |
| <b>FN</b> Foundations of Natural, Physical, & Applied Sciences course with lab                                | 4              |
| <b>FN</b> Foundations of Natural, Physical, & Applied Sciences course in a second field                       | 3-4            |
| <b>FA</b> Foundations of Arts course  | 3              |
| <b>FH</b> Foundations of Humanities course  | 3-4            |
| <b>FS ECON 201</b> Principles of Macroeconomics   | 3              |
| <b>FS</b> Foundations of Social Studies course in a second field  | 3              |
| ACCT 205 Introduction to Financial Accounting   | 3              |
| ACCT 206 Introduction to Managerial Accounting  | 3              |
| BUS 101 Business for the New Generation   | 3              |
| BUS 202 The Legal Environment of Business   | 3              |
| BUS 301 Leadership Skills   | 3              |
| <b>FF BUS 450</b> Business Policies   | 3              |
| BUSCOM 201 Global Business Communication  | 3              |
| BUSSTAT 207 Introduction to Business Analytics or<br>MATH 254 Introduction to Statistics                      | 3              |
| BUSSTAT 208 Business Analytics  | 3              |
| ECON 202 Principles of Microeconomics   | 3              |
| ECON 303 Intermediate Microeconomics  | 3              |
| FINAN 303 Principles of Finance   | 3              |
| FINAN 411 Corporate Finance   | 3              |
| FINAN 420 Financial Markets and Institutions  | 3              |
| FINAN 440 Financial Modeling  | 3              |
| FINAN 450 Investment Management   | 3              |
| CoBE Computer Placement Exam or<br>ITM 105 Spreadsheet Topics   | 0-2            |
| ITM 310 Business Intelligence   | 3              |
| MKTG 301 Principles of Marketing  | 3              |
| SCM 301 Principles of Supply Chain Management   | 3              |
| Upper-division finance electives  | 6              |
| Major elective chosen from upper-division finance, accounting, economics, or supply chain management.         | 6              |
| Electives to total 120 credits  | 9-13           |
| Total   | 120            |

Students pursuing a BBA degree from the College of Business and Economics other than finance, may earn a minor in finance by satisfying the requirements listed below (in addition to the requirements of their major).

If you are a non-business major interested in pursuing a finance minor in the College of Business and Economics (COBE), you must be admitted to the college in addition to satisfying the finance minor requirements listed below.

| Finance Minor  |                |
|--|----------------|
| <i>Course Number and Title</i>   | <i>Credits</i> |
| FINAN 303* Principles of Finance   | 3              |
| FINAN 411* Corporate Finance   | 3              |
| FINAN 450* Investment Management   | 3              |
| Any two (2) of the following:<br>FINAN 308* Personal Financial Planning<br>FINAN 415* Financial Statement Analysis<br>FINAN 420* Financial Markets and Institutions<br>FINAN 430* International Finance<br>FINAN 440* Financial Modeling<br>FINAN 451* Derivatives<br>FINAN 470* Real Estate Finance and Investments | 6              |
| Total  | 15             |
| *Requires admission to College of Business and Economics.  |                |

## Course Offerings

## FINAN—Finance

## Lower Division

**FINAN 201 FUNDAMENTALS OF REAL ESTATE (3-0-3)(F/S).**

Foundations of real estate decision-making related to personal and professional real estate activities. Coverage of both residential and commercial roles of real estate in the U.S. economy. Includes an introduction to real estate brokerage, valuation, and mortgage financing.

**FINAN 208 PERSONAL FINANCE (3-0-3)(S).** This course addresses the growing complexity of financial decision-making faced by the individual: how to avoid financial entanglements; installment buying; borrowing money; owning or renting a home; budgeting and money management; savings and investment alternatives; life, health, accident and auto insurance; and personal income taxes and estate planning.

**FINAN 250 PERSONAL INVESTING (3-0-3)(F).** The basic mechanics and principles of investing are introduced to acquaint students with investment vehicles, markets, and processes. Other topics will include speculation, options, and commodities.

## Upper Division

**FINAN 303 PRINCIPLES OF FINANCE (3-0-3)(F, S, SU).** Introduction to corporate financial management. Topics include the time value of money, cash flow estimation, discounted cash flow techniques, capital budgeting, the risk-return trade-off, and the cost of capital. The process of valuation is an essential element in many of these topics and will be an emphasis of the course. PREREQ: Admission to COBE.

**FINAN 308 PERSONAL FINANCIAL PLANNING (3-0-3)(S).** Explores the financial planning function. Topics include contact and data acquisition, determining client goals and risk tolerances, plan development and implementation, and stress testing. Covers several areas of personal financial planning, including investments, insurance, taxes, estate planning, and addresses planning techniques and financial planning ethical issues. PREREQ: Admission to COBE, FINAN 303.

**FINAN 411 CORPORATE FINANCE (3-0-3)(F).** An intermediate course focusing on financial management and its application to financial decision making. Topics include acquisition and allocation of capital, cost of capital, capital structure, capital budgeting, security valuation, risk management, and dividend policy. Cases are used for classroom discussion as a link between theory and practice. PREREQ: Admission to COBE, FINAN 303. COREQ: MATH 160 or MATH 170.

**FINAN 415 FINANCIAL STATEMENT ANALYSIS (3-0-3)(F).** Analysis and interpretation of financial statements, economic trends, and firm valuation. Students use valuation techniques to enable investment decisions, credit decisions, forecasting, and performance analysis. PREREQ: Admission to COBE, FINAN 303.



**FINAN 420 FINANCIAL MARKETS AND INSTITUTIONS (3-0-3)(S).**

The interaction between financial institutions and financial markets are examined and their roles in the economy are discussed. Topics include the function of financial markets, valuation of financial assets, central banking and monetary policy, commercial banking, financial institutions, and management of financial risk. Emphasis is placed on the changes taking place within the financial community and the effects on financial institutions. PREREQ: Admission to COBE, FINAN 303. COREQ: MATH 160 or MATH 170.

**FINAN 430 INTERNATIONAL FINANCE (3-0-3)(S).** Builds a strong foundation on the relationship among international financial markets. Included is exchange rate determination and parity conditions across countries. Once the foundation is built, the multinational firm is examined in this framework. Included is working capital management, capital budgeting, and cost of capital for the multinational firm. PREREQ: Admission to COBE, FINAN 303.

**FINAN 440 FINANCIAL MODELING (3-0-3)(S).** Provides hands-on experience using spreadsheets to solve financial problems. Concentrates on bringing classic financial theory into practical settings. Cost of capital, financial statement modeling, valuation, portfolio models and the efficient set, option pricing, and bond mathematics. PREREQ: Admission to COBE, FINAN 303. COREQ: MATH 160 or MATH 170.

**FINAN 450 INVESTMENT MANAGEMENT (3-0-3)(F).** Examines global securities markets from both a theoretical and a practical viewpoint. Topics include the mechanics of direct investment, measurement and management of risk and return, the Efficient Market Hypothesis, Modern Portfolio Theory, the Capital Asset Pricing Model, and analysis of investment performance. PREREQ: Admission to COBE, BUSSTAT 208, FINAN 303. COREQ: MATH 160 or MATH 170.

**FINAN 451 DERIVATIVES (3-0-3)(S).** Focuses on both recent and past innovations in the derivatives markets. Futures contracts and options and the theory of hedging, using both agricultural and financial futures contracts, options writing, and index options are stressed. Topics addressed from both a theoretical and practical perspective. PREREQ: Admission to COBE, FINAN 450, MATH 160 or MATH 170.

**FINAN 460 ASSET ALLOCATION AND SECURITY SELECTION (3-0-3)(F).** An applied course in asset allocation and security selection. Students invest donated monies in stocks and mutual funds to generate a return used to fund scholarships and software to support the education of future finance students. Students apply tools of financial analysis and learn to use financial databases to select and manage a portfolio of stocks and mutual funds. PREREQ: Admission to COBE, FINAN 303 and PERM/INST.

**FINAN 461 PORTFOLIO PERFORMANCE MEASUREMENT (3-0-3)(S).** Students manage a portfolio of stocks and mutual funds to generate a return to be used to fund scholarships and software to support future generations of finance students. Students learn to perform portfolio attribution analysis and benchmark returns using financial databases. PREREQ: Admission to COBE, FINAN 460 and PERM/INST.

**FINAN 470 REAL ESTATE FINANCE AND INVESTMENTS (3-0-3)(F).** Introduction to the concepts, principles, analytical methods and tools useful for making investment and finance decisions regarding commercial real estate assets. Topics include an overview of real estate capital markets, market analysis, property financial analysis, real estate loan underwriting and investment characteristics of real estate. PREREQ: Admission to COBE, FINAN 303.

# Games, Interactive Media, and Mobile

*College of Innovation and Design*

Albertsons Library, First Floor  
gimm@boisestate.edu (email)  
<https://www.boisestate.edu/gimm/> (website)

*Director:* Anthony Ellertson

## Degree Offered

- Bachelor of Science in Games, Interactive Media, and Mobile

## Program Statement

The Bachelor of Science in Games, Interactive Media, and Mobile (GIMM) is a baccalaureate degree for students seeking to specialize in interface design and client-side application development. Students will be exposed to a variety of cutting-edge industry tools and practices targeted at helping them become proficient in visual design, object-oriented programming, 2 & 3D animation, game, and mobile development. Seniors in our program will have the opportunity to work on professional projects with industry and academic partners to produce portfolio worthy artifacts.

## Degree Requirements

| Games, Interactive Media, and Mobile Bachelor of Science  |                |
|---|----------------|
| <i>Course Number and Title</i>  | <i>Credits</i> |
| University Foundations requirements indicated in bold. See page 48 for details and lists of approved courses.   |                |
| <b>UF 100</b> Foundations of Intellectual Life  | 3              |
| <b>UF 200</b> Foundations of Ethics and Diversity   | 3              |
| <b>FW ENGL 101</b> Writing and Rhetoric I   | 3              |
| <b>FW ENGL 102</b> Writing and Rhetoric II  | 3              |
| <b>FC</b> Foundations of Oral Communication   | 3              |
| <b>FM MATH 143</b> and <b>MATH 144</b> Precalculus (not FM) or <b>FM MATH 170</b> Calculus I  | 4-5            |
| <b>FN</b> Foundations of Natural, Physical, & Applied Sciences course with lab  | 4              |
| <b>FN</b> Foundations of Natural, Physical, & Applied Sciences course in a second field   | 3-4            |
| <b>FA</b> Foundations of Arts course  | 3              |
| <b>FH</b> Foundations of Humanities course  | 3-4            |
| <b>FS</b> Foundations of Social Sciences course   | 3              |
| <b>FS</b> Foundations of Social Sciences course in a second field   | 3              |
| One (1) of the following:<br>CS 111 Introduction to Programming<br>CS 117 C++ for Engineers<br>CS 121 Computer Science I<br>ITM 225 Introduction to Programming | 3-4            |
| GIMM 100 Digital Tools for Interactivity  | 3              |
| GIMM 110 Interactive Programming  | 3              |
| GIMM 200 Visual Storytelling  | 3              |
| GIMM 250 Interactive Storytelling   | 3              |
| GIMM 260 Mobile Web Services I  | 3              |
| GIMM 270 Interactive Audio and Video  | 3              |
| GIMM 280 Interactive Physical Computing   | 3              |
| GIMM 285 Mobile Web Services II   | 3              |
| GIMM 290 Game Design Theory   | 3              |
| GIMM 300 Mobile Web Development   | 3              |

|  |      |
|--|------|
| GIMM 310 Mobile Application Development for Media                                | 3    |
| GIMM 330 3D Animation and Modeling   | 3    |
| GIMM 340 Mobile Web Development & Internet of Things                             | 3    |
| GIMM 350 Game Development  | 3    |
| GIMM 360 Game and Virtual Reality Audio  | 3    |
| GIMM 370 Advanced 3D Animation   | 3    |
| GIMM 375 Advanced Game Development   | 3    |
| GIMM 400 Multiplayer Game Development  | 3    |
| GIMM 440 Digital Portfolio   | 3    |
| <b>FF GIMM 480</b> Senior Capstone One   | 3    |
| GIMM 490 Senior Capstone Two   | 3    |
| ITM 325 Web Application Development I or CS 401* Introduction to Web Development | 3    |
| ITM 370 Mobile Application Development or CS 402* Mobile Application Development | 3    |
| Electives to total 120 credits   | 6-10 |
| Total  | 120  |

\*Additional requisites needed in order to enroll.

## Course Offerings

### GIMM—Games, Interactive Media, and Mobile

#### Lower Division

**GIMM 100 DIGITAL TOOLS FOR INTERACTIVITY (3-0-3)(F).** An introduction to the creative process across artistic media and genres. A variety of expressive mediums are introduced to students to provide them with theoretical backgrounds in the production and choice of media. At the end of the course students are familiar with common industry practices like storyboarding and team coordination for interactive projects. They are also introduced to common visual editing software such as Adobe Photoshop and Adobe Illustrator. COREQ: GIMM 110.

**GIMM 110 INTERACTIVE PROGRAMMING (3-0-3)(F).** An introduction to the object-oriented programming paradigm for client-side interface development. Students work with class objects, properties, abstraction, aggregation, inheritance, encapsulation, and polymorphism inside of an OOP language. Students are also introduced to selected OOP design patterns to help them understand how complex programming projects are planned and executed. COREQ: GIMM 100.

**GIMM 200 VISUAL STORYTELLING (3-0-3)(S).** Focuses on the development of 2 and 3D models for game design. Students are introduced to advanced image creation techniques in both 2 and 3D environments. Students master environment and character creation techniques using industry standard tools. PREREQ: GIMM 100, GIMM 110, or PERM/CHAIR.

**GIMM 250 INTERACTIVE STORYTELLING (3-0-3)(S).** Focuses on the affordances of media and their use in interactive environments. Students study narrative, 2D animation, and OOP programming to better understand how to create immersive experiences in mobile applications, graphic displays, and games. At the end of the course students are familiar with 2D animation techniques, OOP programming principles, programming frameworks, interactive and streaming video, media theory and interactive storytelling. PREREQ: GIMM 100, GIMM 110, or PERM/CHAIR.

**GIMM 260 MOBILE WEB SERVICES I (3-0-3)(F).** Focuses on the basics of web services and their delivery to mobile devices through the browser. Introduces basic database design and web services creation to manipulate data for dynamic mobile experiences. Students gain the ability to organize and manipulate basic data services and have an understanding of how web requests work with the parameters of the HTTPS protocol. PREREQ: GIMM 200, GIMM 250, or PERM/CHAIR.

**GIMM 270 INTERACTIVE AUDIO AND VIDEO (3-0-3)(F).** Focuses on the creation of interactive sound and video artifacts. Students are introduced to

basic sound and video editing techniques and industry standard software. Students also explore how to combine their video and sound editing skills with programming to create interactive media objects capable of containing metadata for infographics, hyperlinked video, and advanced green screen effects. PREREQ: GIMM 250.

**GIMM 280 INTERACTIVE PHYSICAL COMPUTING (3-0-3)(F).** Focuses on concepts of circuits, sensors, and wireless networks as they relate to custom mobile device creation. Students work with open source systems such as Arduino, Raspberry Pi, and Zigbee to understand and create unique devices to fit specific mobile computing needs. PREREQ: GIMM 250.

**GIMM 285 MOBILE WEB SERVICES II (3-0-3)(S).** Focuses on the theory and design of large data and web services for delivery to mobile devices. Students will learn how to consume and manipulate large data sets and then present that information through mobile web portals. Students will design and code a form to collect user data, and using advanced topics such as client-side form validation and error messages, produce a professional data driven experience for mobile formats. PREREQ: GIMM 270, GIMM 280, or PERM/CHAIR.

**GIMM 290 GAME DESIGN THEORY (3-0-3)(S).** Focuses on the creation, design, and theory of games for console, mobile, and web environments. Students study current and popular games to understand how culture and technology influence the design of games and learning simulations. Students become familiar with industry practices in relation to project management for games and interactive simulations. Students are also introduced to techniques in photo editing, illustration, and video editing for the creation of visual experiences in interactive environments. PREREQ: ENGL 102, GIMM 100, GIMM 110, or PERM/CHAIR.

#### Upper Division

**GIMM 300 MOBILE WEB DEVELOPMENT (3-0-3)(S).** Focuses on concepts of client-side programming for Web applications. Students are introduced to HTML5, XML, CSS, JavaScript and jQuery. Students also learn about Website creation and content management, focusing especially on mobile Website creation for multiple devices. PREREQ: GIMM 280.

**GIMM 310 MOBILE APPLICATION DEVELOPMENT FOR MEDIA (3-0-3)(S).** Focuses on the design and development of mobile applications for learning and branded user experiences. Students are introduced to a variety of cross platform development environments and industry practices in relation to mobile application development. Focuses on theories of mobile user experience and branding while also providing in-depth coverage of visual design practices in mobile environments object-oriented programming for devices, and streaming media delivery for mobile networks. By the end of the course, students are familiar with multiple development frameworks, how to connect and use third party web services, and how to market applications on the stores for optimal user experiences. PREREQ: GIMM 280.

**GIMM 330 3D ANIMATION AND MODELING (3-0-3)(F).** Focuses on modeling and animation skills for game and simulation environments. Design principles such as scale and proportion, 3D composition, color, etc. as applied to 3D computer simulated environments, are explored and mastered using industry tools such as Blender or Maya. PREREQ: GIMM 200, GIMM 250.

**GIMM 340 MOBILE WEB DEVELOPMENT AND INTERNET OF THINGS (3-0-3)(F).** Focuses on introducing the theory and practice of emerging technologies in the Internet of Things. Students will create data driven experiences that use Web services and local networks to connect a variety of devices such as sensors, embedded systems, and circuits through mobile devices. PREREQ: GIMM 290, GIMM 300, or PERM/CHAIR.

**GIMM 350 GAME DEVELOPMENT (3-0-3)(F).** Focuses on the development of 2 and 3D games and learning simulations for Web and mobile environments. Students are introduced to multiple development frameworks and industry level coding practices in the creation of a professional level game. Students are introduced to advanced physics engines, artificial intelligence engines, and best practices for working in game development teams. PREREQ: GIMM 250. PRE/COREQ: GIMM 290.

**GIMM 360 GAME AND VIRTUAL REALITY AUDIO (3-0-3)(S).** Explore the techniques of creating interactive audio for video games and virtual reality projects. Students will learn to create foley and sound design, integrate audio with game engines, create virtual spatial audio environments, and program interactive sound generation. In addition, students will be introduced to the theoretical issues around game and virtual reality audio. At the completion of this course, students will have created complete sound assets that are integrated into a video game or virtual reality project using FMOD and Unity. PREREQ: GIMM 270.

**GIMM 370 ADVANCED 3D ANIMATION (3-0-3)(S).** Provides an opportunity to produce a short animated film in a 3D modeling environment. This course requires students to work in a team environment that closely resembles a real film studio. Upon completion of the course, students are expected to become familiar with the various stages of film-making, including story development and post-production workflow in 3D environments. PREREQ: GIMM 200, GIMM 250.

**GIMM 375 ADVANCED GAME DEVELOPMENT (3-0-3)(S).** Focuses on advanced areas in game development and software development including: Physics engines, UI (menu systems), Databases (permanent data), and AI. Students will learn some in demand and cutting edge industry skills in AI, game engine physics, data science, and using databases and permanent data storage in game development. They will have an opportunity to apply these techniques to their own prototype game. PREREQ: GIMM 330, GIMM 350, or PERM/CHAIR.

**GIMM 400 MULTIPLAYER GAME DEVELOPMENT (3-0-3)(F).** Focuses on the edge of mobile and game development to expose students to emerging trends and possibilities with technology. Topics may include: augmented reality, advanced location based services, and near field communications. Explores development with a variety of commercial peripheral devices such as Kinect cameras, Wii Balance Boards, smart watches and smart TVs. It also introduces students to the creation of custom made mobile devices with Arduino circuit boards, Zigbee wireless networks, and other types of sensors. Students learn how to work with multiple mobile peripherals as well as create their own devices to meet user needs. PREREQ: GIMM 350.

**GIMM 440 DIGITAL PORTFOLIO (3-0-3)(S).** An advanced examination and application of professional digital portfolio components and processes. Students develop, refine, and present a professional portfolio based on their work to prepare them for the job market. PREREQ: GIMM 350, GIMM 370.

**GIMM 480 SENIOR CAPSTONE ONE (3-0-3)(F)(FF).** The first of a two-course sequence comprising a capstone experience over the fall and spring semesters. Seniors work with clients on advanced interactive, mobile, and Web based projects to support research on campus and non-profit efforts in the community. Students use project management and team building skills over the course of the capstone experience to prepare them for industry. PREREQ: PERM/CHAIR.

**GIMM 490 SENIOR CAPSTONE TWO (3-0-3)(S).** The second of a two-course sequence comprising a capstone experience over the fall and spring semesters. PREREQ: GIMM 480.

## Gender Studies Minor

College of Arts and Sciences

Riverfront Hall 214

(208) 426-3406 (phone)

ghusting@boisestate.edu (email)

<https://www.boisestate.edu/genderstudies/> (website)

Director and Professor: Ginna Husting

### Program Offered

- Minor in Gender Studies

### Program Statement

Multicultural and interdisciplinary in approach, the program seeks to address many of the current social, economic, political, professional, scientific, social media, individual, and public policy issues revolving around discussions of gender and sexuality. Students examine concepts of gender and sexuality within different cultural, social, economic, and religious contexts through the study of scholarship and creative works in a variety of fields. Thus, the coursework seeks to provide students with essential preparation for lives and careers deeply impacted by ongoing debates regarding gender and sexuality in our society.

### Program Requirements

| Gender Studies Minor   |         |
|--|---------|
| Course Number and Title  | Credits |
| GENDER 200 Introduction to Gender Studies  | 3       |
| GENDER 301/SOC 471 Feminist Theory   | 3       |
| GENDER 302 Research Methods and Perspectives   | 3       |
| Electives: Additional gender studies courses selected in consultation with program director or advisor, which meet the interests and needs of the student. Contact program office for list of approved electives. No more than 6 credit hours total of independent study, internship, practica, service-learning, or workshop may be applied toward the Gender Studies Minor. No more than 6 credit hours of GENDER 280 credits may be applied toward the minor. | 12      |
| Total  | 21      |

### Course Offerings

#### GENDER—Gender Studies

##### Lower Division

**GENDER 200 INTRODUCTION TO GENDER STUDIES (3-0-3)(F/S).** Interdisciplinary, multicultural introduction to gender studies that provides foundation for further study. Draws selectively from scholarship and creative work of various fields to examine how concepts of gender shape lives, personal relationships, and social institutions. Gender issues will be studied from a multicultural perspective across lines of class, race, and ethnicity.

**GENDER 280 COLLOQUIUM IN GENDER STUDIES (3-0-3)(F/S).** Intensive studies of a particular topic relating to the field of gender studies. May be repeated for credit.

##### Upper Division

**GENDER 301 (SOC 471) FEMINIST THEORY (3-0-3)(F/S).** Students encounter new perspectives by examining major theories directly useful to scholars in search of understanding and explaining gender relations. May be taken for GENDER or SOC credit, but not for both. PREREQ: GENDER 200 and upper-division standing, or PERM/INST.

**GENDER 302 RESEARCH METHODS AND PERSPECTIVES (3-0-3)(F/S)(Alternate years).** Examines practical problems of researching and writing about women and gender from an interdisciplinary, multicultural perspective. Emphasizes major bibliographic sources and services in gender studies. PREREQ: GENDER 200 or PERM/INST.

**GENDER 303 INTRODUCTION TO WOMEN'S STUDIES (3-0-3)(F/S)(Alternate years).** Examines women's roles, achievements, and experiences historically and globally with attention to class, race, ethnicity, sexual orientation, politics and age. Introduces various feminist theories and discusses inequalities between men and women to envision change. PREREQ: Upper-division standing or PERM/INST.

**GENDER 371 (SOC 371) THE SOCIAL PSYCHOLOGY OF GENDER (3-0-3)(F/S)(Alternate years).** Multinational social psychological research and theories are used to explore the processes by which societies apply gender definitions, social change, institutional policies, and relationships between women and men. May be taken for GENDER or SOC credit, but not for both. PREREQ: PSYC 101 or SOC 101, and upper-division standing.

**GENDER 380 COLLOQUIUM IN GENDER STUDIES (3-0-3)(F/S).** Intensive studies of a particular topic relating to the field of gender studies. May be repeated for credit. PREREQ: Upper-division standing or PERM/INST.

**GENDER 480 SEMINAR IN GENDER STUDIES (3-0-3)(F/S).** Critical analysis of source material and literature on a topic of restricted scope in gender studies. May be repeated for credit. PREREQ: Upper-division standing or PERM/INST.

**GENDER 498 SENIOR SEMINAR (3-0-3)(F/S).** Capstone course focusing on intensive individual research projects on topics of interest to the students. PREREQ: GENDER 200, a research methods course, and PERM/INST.

# Department of Geosciences

College of Arts and Sciences

Environmental Research Building, Room 1160  
 (208) 426-1631 (phone)  
 (208) 426-4061 (fax)  
 geosciences@boisestate.edu (email)  
<https://www.boisestate.edu/earth/> (website)

*Chair and Professor:* James McNamara. *Professors:* Benner, Glenn, Kohn, Northrup, Pelton, Schmitz. *Associate Professor:* Brand, Flores, Johnson, Marshall, Mikesell, Pierce, Wanless, Wilkins. *Assistant Professors:* Enderlin, Niu, Viskupic. *Research Professors:* Barrash, Gillerman, Kaiser, Liberty, Reynard. *Emeritus Faculty:* Donaldson, Snyder, Spinoza, White, Wood. *Lecturer:* DeYoung, Luna, Weppner.

## Degrees Offered

- Bachelor of Science in Geosciences
  - Geology Emphasis
  - Geophysics Emphasis
  - Hydrology Emphasis
  - Secondary Education Emphasis
- Minor in Climate Studies
- Minor in Earth Science Teaching Endorsement
- Minor in Geology
- Minor in Geophysics
- Minor in Geospatial Information Analysis
- Minor in Hydrology

## Department Statement

The Department of Geosciences offers a suite of programs for students who want to develop skills in critical thinking, problem-solving, technical communication, and data analysis techniques by studying Earth's processes and properties. Graduates of each program can take new knowledge bases and skill sets to professional careers in natural resources or environmental sciences, advanced studies in graduate school, or any future where scientific thinking is used.

Students gain a strong core of fundamental geosciences coursework as well as preparation in the physical sciences and mathematics that form the underpinning of our discipline. Beyond those fundamental courses, BS Geoscience majors choose a focused curriculum in one of our emphasis areas—geology, geophysics, hydrology, or secondary education—to better prepare for that particular career path. Five minors in these four disciplines plus Climate Science introduce students to the essentials of each discipline, and are ideally suited to the innovative 3-D major offered by the College of Arts and Sciences where students can custom-tailor a degree plan to fit their academic interests and career aspirations by combining three minors to constitute a major.

Students not only learn current concepts and practices in Earth Science but have opportunities to generate new knowledge by working alongside accomplished faculty researchers. Research experiences, internships, and experiential learning are integral components of the learning experiences that we offer.

Nondegree course offerings in geography meet the 15-credit requirement under the 30-15-15 Social Studies, Secondary Education Emphasis degree programs offered in the departments of Economics, History, Political Science, Psychological Science, and Sociology. Certificates and endorsements offer opportunities to obtain credentials for professional advancement

The Geosciences, Secondary Education Emphasis combines content knowledge, theories of learning and human development, study of curriculum, and methodology to help students develop the knowledge, skills and dispositions essential for success in secondary school teaching. The program involves participation in the IDoTeach STEM-ED curriculum which includes early and sustained field experiences for students. Candidates who complete the Secondary Education Emphasis program have demonstrated evidence of meeting the Idaho Beginning Teacher Standards and are eligible for recommendation for state certification. Students wishing to pursue this degree

plan must meet the requirements and standards for admission to teacher education, which are described fully under STEM Education IDoTeach STEM Teaching Certification or at <https://www.boisestate.edu/idoteach/>. Students must meet and maintain all knowledge, skill, and disposition requirements to remain in the program.

## Degree Requirements

| Geosciences<br>Bachelor of Science  |         |
|---|---------|
| Course Number and Title   | Credits |
| University Foundations requirements indicated in bold. See page 48 for details and lists of approved courses.   |         |
| <b>UF 100</b> Foundations of Intellectual Life  | 3       |
| <b>UF 200</b> Foundations of Ethics and Diversity   | 3       |
| <b>FW ENGL 101</b> Writing and Rhetoric I   | 3       |
| <b>FW ENGL 102</b> Writing and Rhetoric II  | 3       |
| <b>FC</b> Foundations of Oral Communication   | 3       |
| <b>FM MATH 170</b> Calculus I   | 4       |
| <b>FN CHEM 111, 111L</b> General Chemistry I with Lab   | 4       |
| <b>FN GEOS 101</b> Global Environmental Science or<br><b>FN GEOL 101</b> Physical Geology   | 4       |
| <b>FA</b> Foundations of Arts course  | 3       |
| <b>FH</b> Foundations of Humanities course  | 3-4     |
| <b>FS ED-CIFS 201</b> Education, Schooling, and Society<br>(Secondary Education Emphasis) or<br><b>FS</b> Foundations of Social Sciences course   | 3       |
| <b>FS</b> Foundations of Social Sciences course in a second field   | 3       |
| CHEM 112, 112L General Chemistry II & Lab   | 4       |
| GEOG 360 Intro to Geographic Information Systems  | 3       |
| GEOS 200 Evolution of Western North America   | 4       |
| GEOS 212 Water in the West  | 4       |
| GEOS 220 Seeing the Unseen: an Intro to Geophysics  | 4       |
| GEOS 300 Earth Materials  | 4       |
| GEOS 313 Geomorphology  | 4       |
| GEOS 314 Structural Geology   | 4       |
| GEOS 315 Sedimentation and Stratigraphy   | 4       |
| GEOS 357 Computation in the Geosciences   | 3       |
| <b>FF GEOS 498</b> Geosciences Senior Seminar   | 2       |
| MATH 175 Calculus II  | 4       |
| MATH 254 Introduction to Statistics or<br>MATH 361 Probability and Statistics   | 3       |
| Physics Option I:<br>(Recommended for students planning graduate studies)<br>PHYS 211, 211L-212, 212L Physics I & II with Calculus & Labs<br>Physics Option II:<br>PHYS 111-112 General Physics | 8-10    |
| <b>Geology Emphasis</b>   |         |
| GEOS 345 Igneous and Metamorphic Petrology  | 4       |
| GEOS 425 Whole Earth Geochemistry   | 3       |
| GEOS 482 Experiences in Geoscience Field Studies  | 3-6     |
| Upper-division electives to total 40  | 0-5     |
| Electives to total 120 credits  | 10      |
| Total   | 120     |
| <b>Geophysics Emphasis</b>  |         |
| MATH 275 Multivariable and Vector Calculus  | 4       |
| MATH 333 Differential Equations with Matrix Theory  | 4       |

## GEOSCIENCES

|   |            |
|---|------------|
| GEOS 343 Applied Geophysics                                   | 4          |
| GEOS 420 Digital Signal Processing Applications in Geoscience | 3          |
| GEOS 422 Data Analysis and Geostatistics                      | 3          |
| GEOS 482 Experiences in Geoscience Field Studies              | 3-6        |
| One (1) upper-division GEOS elective                          | 3-4        |
| Electives to total 120 credits                                | 0-2        |
| <b>Total</b>  | <b>120</b> |

|  |            |
|--|------------|
| <b>Hydrology Emphasis</b>                        |            |
| GEOS 316 Hydrology                               | 4          |
| GEOS 412 Hydrogeology                            | 3          |
| GEOS 426 Aqueous Geochemistry                    | 3          |
| GEOS 482 Experiences in Geoscience Field Studies | 3-6        |
| Upper-division electives to total 40 credits     | 0-3        |
| Electives to total 120 credits                   | 8-10       |
| <b>Total</b>                                     | <b>120</b> |

|   |                |
|---|----------------|
| <b>Secondary Education Emphasis</b>                               |                |
| GEOG 213 Atmosphere and Weather                                   | 3              |
| GEOS 201 Introduction to Oceanography                             | 3              |
| PHYS 104 Life in the Universe or<br>PHYS 105 Stars and Cosmology  | 4              |
| STEM-ED 101 Step 1: Inquiry Approaches to Teaching                | 1              |
| STEM-ED 102 Step 2: Inquiry-based Lesson Design                   | 1              |
| STEM-ED 210 Knowing & Learning in Math & Science                  | 3              |
| STEM-ED 220 Philosophical Perspectives on Science and Mathematics | 3              |
| STEM-ED 310 Classroom Interactions                                | 3              |
| STEM-ED 350 Research Methods                                      | 3              |
| STEM-ED 410 Project-based Instruction                             | 3              |
| STEM-ED 480 Apprentice Teaching                                   | 6              |
| Upper-division electives to total 40                              | 0-1            |
| <b>Total</b>  | <b>131-133</b> |

### Earth Science Teaching Endorsement Minor

| <i>Course Number and Title</i>  | <i>Credits</i> |
|---|----------------|
| GEOG 213 Atmosphere and Weather                                       | 3              |
| GEOS 101 Global Environmental Science or<br>GEOL 101 Physical Geology | 4              |
| GEOS 200 Evolution of Western North America                           | 4              |
| GEOS 201 Introduction to Oceanography                                 | 3              |
| GEOS 300 Earth Materials  | 4              |
| PHYS 104 Life in the Universe or<br>PHYS 105 Stars and Cosmology      | 4              |
| <b>Total</b>  | <b>22</b>      |

This teaching endorsement minor does not certify you to teach. For more information on becoming a teacher please contact the Office of Teacher Education.

### Geography Teaching Endorsement

| <i>Course Number and Title</i>  | <i>Credits</i> |
|---|----------------|
| GEOG 101 Introduction to Geography  | 3              |
| GEOG 102 Cultural Geography   | 3              |
| Upper-division geography courses  | 6              |
| Additional geography courses  | 8              |
| <b>Total</b>  | <b>20</b>      |
| See Department of Curriculum, Instruction, and Foundational Studies for more information. |                |

The Climate Studies Minor aims to help students understand past, current and future changes in climate and the effects of climate change on Earth's atmospheric, biologic, hydrologic and ecologic systems. This minor will include the interactions among physical and human systems, and prepare Boise State students to address the grand challenges associated with global climate change. It provides needed preparation for students joining Idaho's workforce to understand the causes of climate change, how climate change will affect Idaho's businesses, agriculture, and forest resources, and how to best prepare for the future.

Students who earn the Climate Studies minor will value the importance of good science in making environmental decisions. They will better understand the role of personal transformation (i.e., lifestyle choices and consumptive decisions) and societal change (i.e., community involvement and political action) in response to environmental challenges related to climate change. They will realize the significance of climate and paleoclimate data in forecasting (i.e., climate modeling).

### Climate Studies Minor

| <i>Course Number and Title</i>  | <i>Credits</i> |
|---|----------------|
| GEOG 213 Atmosphere and Weather   | 3              |
| GEOS 101 Global Environmental Science or<br>GEOL 101 Physical Geology   | 4              |
| GEOS 305 Global Climate Change  | 3              |
| GEOS 470 Grand Challenges: Addressing Environmental Change  | 4              |
| Choose two (2) of the following:<br>BIOL 416 Microbial Ecology<br>BIOL 422 Conservation Biology<br>BIOL 435 Ecosystem Ecology<br>GEOG 321 Sustainability in the Anthropocene<br>GEOS 201 Introduction to Oceanography<br>GEOS 212 Water in the West<br>GEOS 366 Avalanche Fundamentals<br>HES 220 Systems Thinking and Sustainability<br>HES 400 Foundations in Human-Environment Systems Science | 5-6            |
| <b>Total</b>  | <b>20-21</b>   |

### Geology Minor

| <i>Course Number and Title</i>  | <i>Credits</i> |
|---|----------------|
| GEOS 101 Global Environmental Science or<br>GEOL 101 Physical Geology | 4              |
| GEOS 200 Evolution of Western North America                           | 4              |
| GEOS 300 Earth Materials  | 4              |
| GEOS 314 Structural Geology   | 4              |
| GEOS 315 Sedimentation and Stratigraphy                               | 4              |
| <b>Total</b>  | <b>20</b>      |

| Hydrology Minor   |                |
|---|----------------|
| <i>Course Number and Title</i>  | <i>Credits</i> |
| GEOS 101 Global Environmental Science or<br>GEOL 101 Physical Geology | 4              |
| GEOS 212 Water in the West  | 4              |
| GEOS 313 Geomorphology  | 4              |
| GEOS 316 Hydrology  | 4              |
| GEOS 412 Hydrogeology   | 3              |
| Total   | 19             |

| Geophysics Minor  |                |
|---|----------------|
| <i>Course Number and Title</i>  | <i>Credits</i> |
| GEOS 101 Global Environmental Science or<br>GEOL 101 Physical Geology   | 4              |
| GEOS 220 Seeing the Unseen: an Intro to Geophysics  | 4              |
| GEOS 343 Applied Geophysics   | 4              |
| GEOS 357 Computation in the Geosciences   | 3              |
| GEOS 420 Digital Signal Processing Applications in<br>Geoscience or<br>GEOS 422 Data Analysis and Geostatistics | 3              |
| One (1) upper-division GEOS elective  | 3-4            |
| Total   | 21-22          |

This minor is interdisciplinary in its application of geospatial technologies toward solving problems with spatial elements, and is open to students of any major where geospatial information technologies and analysis may be applied. This alignment of courses is designed to meet the demands in industry and research where demonstrable literacy in these technologies is required.

| Geospatial Information Analysis Minor   |                |
|---|----------------|
| <i>Course Number and Title</i>  | <i>Credits</i> |
| GEOG 101 Introduction to Geography or<br>GEOG 102 Cultural Geography            | 3              |
| GEOG 360 Intro to Geographic Information Systems                                | 3              |
| GEOG 361 Remote Sensing and Image Processing                                    | 3              |
| GEOG 430 GIS Data and Communication   | 3              |
| GEOG 460 GIS Analysis and Modeling or<br>GEOG 493 Internship                    | 3              |
| ITM 104 Operating Systems and Word Processing Topics                            | 1              |
| ITM 105 Spreadsheet Topics  | 2              |
| ITM 106 Database Topics   | 1              |
| MATH 254 Introduction to Statistics or<br>MATH 361 Probability and Statistics I | 3              |
| Total   | 21             |

### Course Offerings

#### GENSCI—General Science

**GENSCI 305 TEACHING SCIENCE IN THE SECONDARY SCHOOL (3-0-3)(S)(Alternate years).** A course designed to introduce the prospective secondary school science teacher to an understanding of the nature of science, both as subject matter and as processes of scientific inquiry. Special emphasis is placed on problems of communicating scientific ideas, effective modes of instruction and evaluation, and curricular materials for secondary school science teaching.

**GENSCI 400 CONCEPTIONS IN SCIENCE FOR TEACHERS (3-0-3)(F/S).** Nature of conceptions of scientific phenomena today's students bring to

science classes and implications of these conceptions for developing new understandings from the research in science learning. Attention given to evidence concerning how, why, and under what circumstances students develop new understandings of the phenomena. PREREQ: PERM/INST.

#### GEOG—Geography

##### Lower Division

**GEOG 101 INTRODUCTION TO GEOGRAPHY (3-0-3)(F, S)(FS).**

Geographic survey of the nature, distribution, and relationships between natural and human systems.

**GEOG 102 CULTURAL GEOGRAPHY (3-0-3)(F, S)(FS).** A study of the distribution and character of cultural activities throughout the world with emphasis on human landscapes.

**GEOG 200 THE GLOBAL NEIGHBORHOOD (3-0-3)(F, S).** Geographic investigations of the relationships, interactions, and diversity in and between the world's cultural, political, economic, and physical regions.

**GEOG 213 ATMOSPHERE AND WEATHER (2-2-3)(F).** Introduction to circulation in the atmosphere, global heat and moisture balance, greenhouse effect, radiation budget, and world climate zones. Applied climatological concepts, weather events, evaporation, soil water conditions, regional and global climatic trends, climate change, and climate modification. PREREQ: GEOG 101 or GEOL 101 or GEOS 101 or ENVSTD 121.

##### Upper Division

**GEOG 321 SUSTAINABILITY IN THE ANTHROPOCENE (3-0-3)(F/S).** Geography of natural resource use in the "Anthropocene," defined as the epoch of human activity leaving a lasting impact on Earth's environments.

Examination of resource scarcity in context of increasing resource consumption and demand, and best adaptive practices to sustain resource supply. PREREQ: ENVSTD 121 or GEOG 101 or GEOG 102 or GEOL 101 or GEOS 101.

**GEOG 331 CLIMATES OF THE PAST (3-0-3)(S).** Examination of past drivers and responses to climate change on Earth. Concepts include feedback systems, how climate change in the past is used to understand recent climate changes, and the temporal and spatial scale of climate change. PREREQ: GEOL 101 or GEOS 101.

**GEOG 350 (GEOS 350) GEOLOGY AND GEOGRAPHY OF NATIONAL PARKS (3-0-3)(F)(Even years).** Systematic examination of the distinguishing physical environments and issues that define and face national parks. Learning goals include improved skills in scientific literature research, and written and oral communication. PREREQ: GEOG 101 or GEOL 101 or GEOS 101 or GEOL 102.

**GEOG 360 INTRODUCTION TO GEOGRAPHIC INFORMATION SYSTEMS (2-2-3)(F/S).** Concepts and principles underlying the operations of geographic information systems (GIS). Cartographic fundamentals, global positioning systems, data collection, data entry, data management. Competency in Windows and spreadsheets is strongly recommended. PREREQ: MATH 254 or MATH 360 or MATH 361 or SPS 240.

**GEOG 361 REMOTE SENSING AND IMAGE PROCESSING (3-0-3)(F).** Fundamentals and applications of single frequency (including lidar), multispectral, and hyperspectral remote sensing for physical, natural, engineering, and social sciences. Emphasis on acquiring, processing, integrating, and interpretation of imagery. Completion of one year of college physics strongly recommended. PREREQ: MATH 254 or MATH 361.

**GEOG 370 (GEOS 370) VOLCANOES AND SOCIETY (3-0-3)(F)(Odd years).** Impact volcanic eruptions on human societies in the past and ways that potentially dangerous volcanoes are being studied and monitored today. Aimed at teachers and others interested in the topic; no background in geology is required. May be taken for GEOG or GEOS credit, but not both.

**GEOG 430 GIS DATA AND COMMUNICATION (2-2-3)(F).** Concepts of spatial data evaluation and map creation with the application of visualizing spatial information for map communication with geographic information systems. PREREQ: GEOG 360.

## GEOSCIENCES

**GEOG 460 GIS ANALYSIS AND MODELING (2-2-3)(S)**. Operations and spatial analysis and prediction capabilities of a GIS. Problem identification, GIS project design, development, and implementation. PREREQ: GEOG 430.

### GEOL—Geology

#### Lower Division

**GEOL 101 PHYSICAL GEOLOGY (3-2-4)(F, S, SU)(FN)**. Principles of physical geology, including a study of the earth, its composition, structure, and natural processes.

**GEOL 102 HISTORICAL GEOLOGY (3-0-3)(F/S)(FN)**. Geological, physical, chemical, and biological processes that have evolved and shaped our planet over billions of years. Reconstruction of geologic history using rock types, fossils, and other geologic evidence. Study of formative geological and biological events in Earth's history.

### GEOS—Geoscience

#### Lower Division

**GEOS 101 GLOBAL ENVIRONMENTAL SCIENCE (3-2-4)(F/S)(FN)**. Geographic approach to earth systems science. Overview of global climatology, hydrology, geomorphology, biogeography, and biogeochemical cycles.

**GEOS 103 HISTORY OF THE EARTH (3-0-3)(S)**. Exploration of the dynamic history of our planet and evolution of life on Earth for the past three billion years. A nonlab course for nonmajors. Students may take either GEOL 102 or GEOS 103 for credit, but not both.

**GEOS 104 GEOSCIENCE AND SOCIETY (3-2-4)(F/S)(FN)**. Introduction to fundamental concepts in geoscience and their application to personal and societal decisions. Emphasis on science practice, data collection and interpretation, sources of scientific information, and the communication of scientific ideas and results. Course is designed for non-science majors.

**GEOS 110 INTRODUCTORY GEOLOGY LAB (0-2-1)(Offered as Justified)**. For transfer students who need a laboratory experience to gain Area III Core credit for a lecture-only geology course taken elsewhere. PREREQ: PERM/INST.

**GEOS 200 EVOLUTION OF WESTERN NORTH AMERICA (3-V-4)(F)**. Advanced introduction to geologic sciences. Regional and global tectonics and their relationship to igneous, metamorphic and sedimentary processes, chemical differentiation, and landscape evolution. Emphasis on understanding the rock record by integrating field and analytical observations from various geologic disciplines. Field trips required. PREREQ: GEOL 101 or GEOS 101, MATH 143 and MATH 144.

**GEOS 201 INTRODUCTION TO OCEANOGRAPHY (3-0-3)(F/S)(FN)**. Study of the world ocean within the context of the geological framework, ocean currents, chemical and physical properties, marine organisms, and ecosystem dynamics. Examines ecosystem services provided by the ocean and the influence of human activities on the ocean system.

**GEOS 212 WATER IN THE WEST (3-V-4)(F/S)**. Introduction to hydrologic sciences. Topics include climate, surface and groundwater quality and quantity, surficial geology and the interaction of hydrologic and ecological processes. Emphasis on water issues of the Western United States. PREREQ: GEOL 101 or GEOS 101, and MATH 143 and MATH 144.

**GEOS 220 SEEING THE UNSEEN: AN INTRODUCTION TO GEOPHYSICS (3-V-4)(F/S)**. Introduction to the fields of environmental, exploration and global Geophysics that allow us to investigate the Earth, from the first few meters below the surface to the whole Earth, without doing any digging. Labs will involve a combination of computer exercises, demonstrations, and lab and field experiments. PREREQ: MATH 143 and MATH 144 or PERM/INST.

**GEOS 242 COMMUNICATION IN THE EARTH SCIENCES (3-0-3)(S)**. Development of effective written and oral communication skills necessary for professional careers in earth science related fields. Includes researching and evaluating existing literature and the iterative processes involved in evaluating, editing, and revising draft papers. PREREQ: ENGL 102 and GEOL 101 or

GEOS 101 and GEOS 200 or GEOS 212 or GEOS 220 and declared major in Geoscience or Geophysics.

**GEOS 280 FIELD GEOLOGY (1-6-3)(F)**. Techniques of field mapping using topographic maps, stereo-pair air photos, Brunton compass, GPS, and GIS to address a variety of geologic problems. PREREQ: GEOL 101 or GEOS 101, ENGL 102, and declared Geoscience, Geophysics, or Earth Science Education major.

#### Upper Division

**GEOS 300 EARTH MATERIALS (3-3-4)(F)**. Minerals and rocks, focusing on their chemical properties, atomic structures and environments of origin. Labs include identification of minerals and rocks in hand specimens and thin sections. Field trip required. COREQ: CHEM 111 or PERM/INST.

**GEOS 305 GLOBAL CLIMATE CHANGE (3-0-3)(S)**. Examination of anthropogenic climate change, greenhouse effect, and its impacts on the biosphere, cryosphere, weather events and society. Introduces methods of reconstructing climate, paleoclimate and climate modeling. PREREQ: GEOL 101 or GEOS 101.

**GEOS 313 GEOMORPHOLOGY (3-V-4)(S)**. Study of surface processes (physical, chemical, and biological) and landforms. Includes weathering, erosion, fluvial, glacial, coastal and aeolian processes and landforms, history of landform evolution, and climatic and tectonic controls. Field trips and overnight trip required. PREREQ: GEOS 200.

**GEOS 314 STRUCTURAL GEOLOGY (3-3-4)(S)**. Fundamentals of descriptive, kinematic, and dynamic analysis of structures within the Earth's crust, and a theoretical treatment of stress and strain. Field trips required. PREREQ: GEOS 200, MATH 143 and MATH 144.

**GEOS 315 SEDIMENTATION AND STRATIGRAPHY (3-V-4)(F)**. The study of the transportation and deposition of sediments and their depositional environments. Emphasis is placed on the identification and correlation of sedimentary facies and on basin analysis. Field trips required. PREREQ: GEOS 200. COREQ: GEOS 300 or PERM/INST.

**GEOS 316 (CE 316) HYDROLOGY (3-2-4)(F)**. Interdisciplinary earth science concerned with movement and occurrence of water. Watershed based hydrologic phenomena including hydrologic water-cycle analysis, precipitation, evapotranspiration, snow/snowmelt, streamflow, floods, routing and surface runoff events. Application of analytical techniques to solve water resource problems. May be taken for GEOS or CE credit, but not both. PREREQ: GEOS 212 and MATH 175, or PERM/INST.

**GEOS 330 QUATERNARY GEOCHRONOLOGY (3-0-3)(F/S)**. Examine the methods used to establish the timing, duration and rates of geological and geochronological events and processes within the last approximately two million years of Earth history, historically referred to as the Quaternary system or period. PREREQ: GEOL 101 or GEOS 101; COREQ: GEOS 200 or PERM/INST.

**GEOS 343 APPLIED GEOPHYSICS (3-1-4)(S)**. Geophysical methods applied to the investigation of the subsurface, including seismic refraction, seismic reflection, electrical resistivity, induced polarization, gravity, magnetic, and electromagnetic methods. The course will focus on the basic physics of each method, instrumentation, and data interpretation. Field and laboratory experiences will be included. PREREQ: MATH 275, PHYS 212 or PERM/INST.

**GEOS 345 IGNEOUS AND METAMORPHIC PETROLOGY (3-3-4)(S)**. Igneous and metamorphic rocks, emphasizing the physical and chemical processes that control their formation. The origins and histories of rocks are interpreted by examining their mineral assemblages, textures, fabrics, and alteration using a polarizing microscope. PREREQ: CHEM 112, GEOS 300.

**GEOS 350 (GEOG 350) GEOLOGY AND GEOGRAPHY OF NATIONAL PARKS (3-0-3)(F)(Even years)**. Systematic examination of the distinguishing physical environments and issues that define and face national parks. Learning goals include improved skills in scientific literature research, and written and oral communication. PREREQ: GEOG 101 or GEOL 101 or GEOS 101 or GEOL 102.



**GEOS 351 INVERTEBRATE PALEONTOLOGY (2-3-3)(Offered as Justified).** The study of the invertebrate phyla represented in the fossil record. Special emphasis is placed on hardpart morphology, ontogeny, phylogeny, and taxonomy of geologically important groups. Laboratory work based on standard collections. Special project. Field trips required. PREREQ: GEOL 102.

**GEOS 357 COMPUTATION IN THE GEOSCIENCES (3-0-3)(S).** Introduction to scientific programming and computation as tools to solve real-world geoscience problems. Includes MATLAB/Python syntax and logic, familiarization with writing and debugging programs, data processing and visualization, and algorithm development. PREREQ: MATH 175. COREQ: PHYS 211, 211L or PHYS 111.

**GEOS 365 YELLOWSTONE GEOPHYSICS (2-2-3)(F)(Even years).** Focus on seismology, gravity, deformation, and heat flow of the Yellowstone System and Snake River Plain. Tectonism and volcanism of the dynamic Intermountain West. A four-day long weekend field trip to Yellowstone in September is required. Labs include computer-based modeling exercises and will focus on geophysical problems related to Yellowstone and Idaho. PREREQ: GEOS 200, GEOS 220, and MATH 175.

**GEOS 366 AVALANCHE FUNDAMENTALS (1-3-3)(S).** Provides the basis for integrating of mountain weather, snow precipitation, snowpack development, snow metamorphism and avalanche release dynamics. Students will be trained in snow data collection methods, recording standards, and develop field snowpit skills required for snow surveying technicians. Participants are introduced to avalanche risk mitigation and exposed to group decision making, and development of safe travel plans for avalanche terrain. Best practices in avalanche rescue are introduced and practiced through field simulations. PREREQ: PERM/INST.

**GEOS 367 SNOW SCIENCE FIELD METHODS (0-3-2)(S).** Introduction to traditional and cutting-edge methods for measuring snow properties for snow hydrology and avalanche applications. Weekly hands-on measurements in nearby Dry Creek and Reynolds Creek Experimental Watersheds to monitor snow conditions during the winter and spring. PREREQ: PERM/INST.

**GEOS 370 (GEOG 370) VOLCANOES AND SOCIETY (3-0-3)(F)(Odd years).** Impact of volcanic eruptions on human societies in the past and ways that potentially dangerous volcanoes are being studied and monitored today. Aimed at teachers and others interested in the topic; no background in geology is required. May be taken for GEOG or GEOS credit, but not both.

**GEOS 407 PALEOCLIMATOLOGY AND PALEOCEANOGRAPHY (3-0-3)(F/S)(Intermittently).** Survey of the driving forces of atmospheric and oceanic circulation, and how this information can be retrieved from the geological record from physical, biotic, trace element, and isotopic proxies. PREREQ: PERM/INST.

**GEOS 410 OPTICAL MINERALOGY (1-3-2)(F)(Offered as Justified).** A study of the behavior of light in crystals and the use of the polarizing microscope in the examination and identification of minerals in immersion media and thin sections. PREREQ: upper-division standing and PERM/INST.

**GEOS 411 HYDROLOGY: LAND-ATMOSPHERE INTERACTION (3-0-3)(F).** Introduction to the hydrologic cycle and connections between the land surface and atmosphere. Atmospheric circulation, global hydrologic budget, atmospheric radiation, meteorology and climatology of rainfall, snow processes, surface energy and moisture balance, turbulent fluxes, and modeling and remote sensing. PREREQ: PHYS 111 or PHYS 211, MATH 175 and GEOS 212.

**GEOS 412 (CE 412) HYDROGEOLOGY (3-0-3)(S).** Introduction to the hydrologic cycle focusing on subsurface water and its relationships to surface water. Physics of flow through porous media, physical properties of aquifer systems, methods to determine aquifer characteristics, groundwater modeling and relationships between groundwater and streamflow. May be taken for either CE or GEOS credit, but not both. PREREQ: PHYS 111 or PHYS 211, MATH 175 and GEOS 212 or CE 330 or ME 330.

**GEOS 414 ADVANCED STRUCTURAL GEOLOGY (2-3-3)(F)(Alternate years).** A study of the geometric properties of deformed rocks, their

measurement, and analysis. Course will emphasize structural analysis of folded and faulted terrains and metamorphic tectonics, mapping procedures, map interpretation, and data analysis. Study will include review and comparison of tectonic styles of deformation of different geologic provinces throughout North America. Field trips required. PREREQ: GEOS 314.

**GEOS 415 ADVANCED STRATIGRAPHY (3-0-3)(Offered as Justified).** Study of the formation and evolution of sedimentary basins; emphasis on the concepts and qualitative and quantitative tools necessary to understand how sedimentary basins are formed, their specific stratigraphic architectures, and on modern approaches to correlation. PREREQ: GEOS 315. COREQ: GEOS 314.

**GEOS 419 BOREHOLE GEOPHYSICS (2-3-3)(Offered as Justified).** Principles of geophysical, geological, and hydrological measurements in boreholes with emphasis on applications to hydrogeology and petroleum geology. Geological interpretation and formation evaluation of conventional petroleum industry well logs. Integration of borehole geophysics, seismic reflection data, and geology for water resource studies and petroleum exploration. PRE/COREQ: GEOS 343.

**GEOS 420 DIGITAL SIGNAL PROCESSING APPLICATIONS IN GEOSCIENCE (3-0-3)(S).** Focuses on the digital representations of time series and multi-dimensional spatial data and introduces the tools needed to display, filter, and transform data to their equivalent spectral domains. Applications and computer-based practicums will focus on signal processing of diverse geoscience datasets including seismograms, climate time series data, remote sensing imagery, and mapped 2-D data. Concepts to be mastered include digitization, compression, aliasing, convolution, deconvolution, correlation, filter design, frequency phase, amplitude, and power spectra. PREREQ: MATH 175, GEOS 357.

**GEOS 421 ORE DEPOSITS (1-3 credits)(Offered as Justified).** Modern theories of ore deposition, the origin and migration of ore-bearing fluids, the processes of alteration and secondary enrichment, the controls of ore occurrence, and the economics of exploration, development and use of ores. Labs consist of detailed studies of ore and alteration suites using hand specimens and transmitted and reflected-light microscopy. Field trips required. PREREQ: GEOS 300.

**GEOS 422 DATA ANALYSIS AND GEOSTATISTICS (3-0-3)(F).** Review of basic statistics to cover traditional and recent data analysis techniques, with a focus on spatial datasets. Parametric and non-parametric probability density functions, monte-carlo and bootstrap resampling, and principal component analysis. GIS software with focus on using quantitative geostatistical techniques for spatial interpolation and analysis, such as variogram modeling, kriging, and co-kriging. Some experience with programming recommended. PREREQ: MATH 175, GEOS 357.

**GEOS 423 ADVANCED GEOMORPHOLOGY(3-0-3)(F/S).** Advanced study of Quaternary dating methods, applications of geomorphology to environmental problems, mapping and landscape analysis using GIS, soils, geomorphic response to Quaternary climate change, and climatic, tectonic and autocyclic controls on geomorphic processes. Field trips and a field-based research project required. PREREQ: GEOS 313 and GEOG 360.

**GEOS 425 WHOLE EARTH GEOCHEMISTRY (3-0-3)(F).** Basic tools and topics of modern geochemistry with an emphasis on solid-earth applications. Essentials of thermodynamics, kinetics, radiogenic and stable isotopes, and trace element chemistry necessary to study Earth processes in the crust, mantle, hydrosphere and atmosphere. Completion of or co-enrollment in MATH 175 is recommended. PREREQ: GEOS 300, CHEM 112, MATH 170.

**GEOS 426 (CE 426) AQUEOUS GEOCHEMISTRY (3-0-3)(F).** Basic tools and topics of aqueous geochemistry with an emphasis on low temperature process in natural waters Essentials of thermodynamics, kinetics, aqueous speciation, mineral-water interaction, and elemental cycling in the context of surficial earth processes and environmental challenges. Completion of or co-enrollment in Math 175 is recommended May be taken for CE or GEOS credit, but not both PREREQ: CHEM 112, MATH 170.

## GEOSCIENCES

**GEOS 429 FIELD HYDROGEOLOGY (0-3-2)(Offered as Justified).** Field observations and data collection at applied projects in the area. Water-well design and construction, geologic data collection from drill holes, borehole geophysics, well testing, operation of municipal water systems, water rights, and water quality considerations. PRE/COREQ: GEOS 412 or PERM/INST.

**GEOS 431 PETROLEUM GEOLOGY (2-3-3)(F)(Offered as Justified).** A study of the nature and origin of petroleum, the geologic conditions that determine its migration, accumulation and distribution, and methods and techniques for prospecting and developing.

**GEOS 436 STABLE ISOTOPE GEOCHEMISTRY (3-0-3)(F/S)(Intermittently).** Comprehensive overview of theory, methods, and applications of stable isotope geochemistry to a wide range of earth science problems. PREREQ: PERM/INST.

**GEOS 441 PLATE TECTONICS (3-0-3)(F/S)(Offered as Justified).** Reviews and identifies geologic and geophysical foundations of plate tectonic theory and characteristics of modern tectonic environments and their use in interpreting Earth's geologic history. PREREQ: GEOS 314.

**GEOS 451 PRINCIPLES OF SOIL SCIENCE (3-0-3)(Offered as Justified).** Physical, chemical, and biological characteristics of soils, the factors that govern soil formation, soils as a tool for interpreting landscape evolution and climatic change, and the feedbacks among geologic, hydrologic, and ecologic systems that influence pedogenesis. Demonstration laboratory exercises and field trips will be required. Background in geology and chemistry encouraged. PREREQ: GEOS 300 and GEOS 313, or PERM/INST.

**GEOS 455 GRAVIMETRIC AND MAGNETIC METHODS (2-2-3)(F/S).** Comprehensive discussion of modern gravimetric and magnetic methods of subsurface investigation. Applications to exploration geology (mining and petroleum), engineering geology, hydrogeology, and crustal geology. PREREQ: GEOS 343. PRE/COREQ: MATH 333.

**GEOS 460 VOLCANOLOGY (3-0-3)(F)(Offered as Justified).** A study of volcanic processes and the deposits of volcanic eruptions. Emphasis is on the origin and interpretation of the physical features observed in volcanic rocks. Field trip required. PREREQ: GEOS 345.

**GEOS 462 ELECTRICAL AND ELECTROMAGNETIC METHODS (2-2-3)(F/S).** Comprehensive discussion of modern electrical and electromagnetic methods of subsurface investigation, including ground penetrating radar. Applications to exploration geology (mining and petroleum), engineering geology, hydrogeology and crustal geology. PREREQ: GEOS 343. PRE/COREQ: MATH 333.

**GEOS 465 SEISMIC METHODS (2-2-3)(F/S).** Comprehensive discussion of modern seismic methods of subsurface investigation. Applications to exploration geology (mining and petroleum), engineering geology, hydrogeology, and crustal geology. PREREQ: GEOS 343. PRE/COREQ: MATH 333.

**GEOS 470 GRAND CHALLENGES: ADDRESSING ENVIRONMENTAL CHANGE (3-0-3)(S).** Idaho and western U.S. face challenges triggered by rapid environmental change. This class examines how Earth's warming climate causes increased fires and earlier snowmelt, and how this impacts agricultural and forest resources. Prepares students joining Idaho's workforce to understand climate change, its effects on Idaho's businesses and economy, and how to best prepare for the future. PREREQ: GEOS 305.

**GEOS 471 FIELD SEMINAR (1-3 credits)(F/S).** Field trips and field exercises to study geology of selected localities in North America. Review of pertinent literature and maps, recording of geologic observations, and the preparation of a comprehensive report on the geology of the areas visited. May be repeated for credit. PREREQ: GEOS 200 and PERM/INST.

**GEOS 472 ISOTOPE GEOCHEMISTRY AND GEOCHRONOLOGY (3-0-3)(F/S).** Comprehensive overview of theory, methods, and applications of isotope geochemistry and geochronology to a wide range of earth science problems. PREREQ: GEOS 425.

**GEOS 480 RESEARCH IN GEOSCIENCES (1-3 credits)(F/S).** Individual research project carried out by the student in collaboration with and directed by a supervising member of the Geoscience faculty. May be repeated for up to 6 credits maximum. PREREQ: GEOL 101 or GEOS 101; COREQ: GEOS 200 or GEOS 212 and PERM/INST.

**GEOS 482 EXPERIENCES IN GEOSCIENCE FIELD STUDIES (1-6 credits)(F/S/SU).** Multiple independent sections wherein students collect geological, geophysical, or hydrological data in field settings using current technologies, and interpret data leading to final reports or maps. Section topics may vary each year. All sections meet common field studies learning outcomes. May be repeated for credit in different sections. PREREQ: PERM/INST.

**GEOS 486 GEOSCIENCES CAPSTONE (3-6 credits)(Offered as Justified).** Student-specific research or field project in the geosciences. Student initiated proposals for the course must be approved prior to initiation of work. PREREQ: PERM/INST.

**GEOS 493 INTERNSHIP (4-6 credits)(F, S, SU).** May be repeated for credit. PREREQ: PERM/INST.

**GEOS 495 SENIOR THESIS (4-6 credits)(F, S, SU).** Research study involving an original investigation in geoscience, carried out independently, but supervised by one or more faculty members. Problem must be well-stated and method of study designed to give a conclusive result. PREREQ: senior standing and PERM/INST.

**GEOS 498 GEOSCIENCES SENIOR SEMINAR (2-0-2)(S)(FF).** Culminating capstone experience to prepare for professional life in the geosciences. Practice evaluating, synthesizing, and presenting information from scientific literature through individual and group assignments. Assessment of achievement of program learning goals. PREREQ: Geophysics, Geosciences, or Earth Science Education major with senior standing.

# Global Studies Program

*School of Public Service*

Environmental Research Building, Room 3141  
(208) 426-4591 (phone)  
nishabellinger@boisestate.edu (email)

*Program Coordinator:* Nisha Bellinger. *Affiliated Faculty:* Anthropology: Pei-Lin Yu, John Ziker. Art: Niharika Dinkar. Economics: Geoffrey Black, Michail Fragkias, Zeynep Hanson, Dimitra Papadovasilaki. Environmental Studies: Mari Rice. English: Gautam Basu Thakur, Reshmi Mukherjee, Dora Ramirez, Edward (Mac) Test. Global Studies: Isaac Castellano, Libby Lunstrum, Saleh Ahmed, Lisa Meierotto, Brian Wampler, Micah Wright. History: Joanne Klein, Lynn Lubamersky, Nick Miller, John Ysursa. Management: Meredith Black, Mark Buchanan, Jack Marr. Political Science: Michael Allen, Ross Burkhardt, Lori Hausegger, Julie VanDusky-Alle. Social Work: Royce Hutson. Sociology: Arthur Scarritt. World Languages: Tetsuya Ehara, Mariah Devereuz Herbeck, Maria-Alicia Garza, Heike Henderson, Jason Herbeck, Adrian Kane, Nerea Lete, Beret Norman, Sharon Wei.

## Degree Offered

- Bachelor of Arts in Global Studies
  - International Relations Emphasis
  - Sustainable Futures Emphasis
  - World Cultures Emphasis
  - World Economics Emphasis
- Minor in Global Studies

## Program Statement

The Global Studies major aims to prepare students as ethical, civically engaged citizens and members of a global community and workforce that increasingly demands an understanding of the complex, diverse, dynamic, and interconnected nature of today's world. The Global Studies major will prepare students to work in a fluid global context in which people and businesses are on the move, where there are stark differences in people's access to basic material goods, where there is increasing demand for natural resources and public spending, and where there is consistent contact among individuals and groups that hold different values and interests. In this major, students will learn the skills necessary to be responsive to a changing global environment as well as develop the skills to help lead change. Boise State's Global Studies program offers a balanced core of courses in the humanities and social sciences. Coursework across multiple academic departments emphasizes critical thinking and provides several disciplinary frameworks for understanding global issues. The program also fosters the development of skills that are highly prized in the global workforce, such as cross-cultural sensitivity, analysis of historical context, ability to work in multiple languages, and rich comparative skills. Service learning, study abroad, and internships open paths to careers in government, international organizations, law, business, education, and planning.

## Language Requirement

See Department of World Languages for information on language placement exams, challenge exams, and credit for prior learning.

## Area Studies Minors

Global Studies students are encouraged to consider declaring one of the following minors, as most courses will count towards the Global Studies major: Arabic Studies, Basque Studies, Canadian Studies, Chinese Studies, French, French for Business, German, German for Business, Iberian Studies, Japanese Studies, Latin American and Latino/a Studies, Mexican-American Studies, Spanish, Spanish for Business. See Department of Political Science for Canadian Studies, Department of Sociology for Mexican-American Studies, and Department of World Languages for all other minors.

## Study Abroad

Global Studies students are encouraged to consider studying abroad. For more information, see the Center for Global Education.

## Degree Requirements

| Global Studies Bachelor of Arts   |         |
|---|---------|
| Course Number and Title   | Credits |
| University Foundations requirements indicated in bold. See page 48 for details and lists of approved courses.   |         |
| <b>UF 100</b> Foundations of Intellectual Life  | 3       |
| <b>UF 200</b> Foundations of Ethics and Diversity   | 3       |
| <b>FW ENGL 101</b> Writing and Rhetoric I   | 3       |
| <b>FW ENGL 102</b> Writing and Rhetoric II  | 3       |
| <b>FC</b> Foundations of Oral Communication   | 3       |
| <b>FM</b> Foundations of Mathematics course   | 3-4     |
| <b>FN ENVSTD 121</b> Introduction to Environmental Studies  | 3       |
| <b>FN</b> Foundations of Natural, Physical, & Applied Sciences course with lab  | 4       |
| <b>FA</b> Foundations of Arts course  | 3       |
| <b>FH</b> Foundations of Humanities course in Foreign language: exclude ASL and Latin   | 4       |
| <b>FS ECON 202</b> Principles of Microeconomics or <b>FS SOC 230</b> Introduction to Ethnic Studies   | 3       |
| <b>FS GLOBAL 101</b> Global Studies: Conflict, Cooperation, and Change  | 3       |
| Foreign Language (two-year sequence of single language to total 16 credits. Excludes American Sign Language and Latin. Taken in addition to language course taken for the FH. )   | 12      |
| <b>ENGL 216</b> Literature and Global Consciousness   | 3       |
| <b>GLOBAL 200</b> Culture and Political Change through Film   | 3       |
| <b>FF GLOBAL 499</b> Capstone Research Seminar  | 3       |
| <b>SPS 200</b> Problem Solving in Public Service  | 3       |
| <b>SPS 240</b> Data in Public Service   | 3       |
| <b>SPS 301</b> Engagement and Empathy in Public Service   | 3       |
| Experiential learning courses from the following:<br>LEAD 225 Civic Engagement and Leadership<br>GLOBAL 493 Internship<br>WORLD 123 International Peer Service Learning<br>Courses can be repeated to satisfy 3 credit requirement, with the exception of WORLD 123, which can only be repeated once. Courses taken through an International Study Abroad will also satisfy this requirement. | 3       |
| Three (3) of the following:<br>GLOBAL 300 World Literatures<br>GLOBAL 301 History of Globalization<br>GLOBAL 302 Social & Political Change in the Global South<br>GLOBAL 303 Global Economic Development<br>GLOBAL 304 Sustainable Futures  | 9       |
| Complete the coursework under one of the following emphasis areas to graduate with a BA in Global Studies.  |         |
| <b>International Relations Emphasis</b>   |         |
| <b>ECON 201</b> Principles of Macroeconomics  | 3       |
| <b>POLS 298</b> Introduction to Political Inquiry   | 3       |
| <b>POLS 398</b> Advanced Political Science Methods  | 3       |

GLOBAL STUDIES PROGRAM

|   |            |
|---|------------|
| Choose three (3) from the following courses, which must be from at least two (2) disciplines:<br>*GENDER 301 Feminist Theory<br>GLOBAL 320 Selected Topics in Contemporary International Relations<br>GLOBAL 498 Seminar in Contemporary Global Issues<br>HIST 310 Forced to Flee: Refugees in European History<br>HIST 319 Europe since the Second World War<br>HIST 326 History of the Holocaust<br>HIST 327 World War I<br>HIST 339 US Military History 1775-Present<br>POLS 305 Comparative Politics: Theories, Methods, and Political Processes<br>POLS 306 International Relations: Actors, Interactions, and Methods<br>POLS 420 Comparative Foreign Policy<br>POLS 421 International Law and Organization<br>POLS 429 International Political Economy<br>POLS 430 US Foreign Policy<br>POLS 431 Seminar in Contemporary International Relations<br>POLS 432 Civil War and Terrorism<br>SOC 395 The Sociology of War and Peace   | 9          |
| Upper-division electives to total 40  | 10-13      |
| Electives to total 120 credits  | 8-12       |
| <b>Total</b>  | <b>120</b> |
| <b>Sustainable Futures Emphasis</b>   |            |
| ECON 201 Principles of Macroeconomics   | 3          |
| POLS 298 Introduction to Political Inquiry  | 3          |
| POLS 398 Advanced Political Science Methods   | 3          |
| Choose three (3) from the following courses, which must be from at least two (2) disciplines:<br>ANTH 314 Environmental Anthropology<br>ANTH 350 Human Behavioral Ecology<br>ECON 311 History of Economic Thought<br>ECON 315 Global Economic Development<br>ECON 317 International Economics<br>ECON 325 Heterodox Political Economy<br>ECON 333 Natural Resource Economics<br>ECON 410 (POLS 410) Public Finance<br>ECON 474 Sustainability and Economic Policy<br>ENGL 408 Writing for Nonprofits & Software Documentation<br>ENVSTD 220 The End of the Earth as We Know It: Introduction to Global Environmental Change<br>ENVSTD 420 Contemporary Debates on Global Environmental Change<br>ENVSTD 440 Nature Conservation in a Global Perspective<br>ENVSTD 460 Sustainable Development<br>ENVSTD 470 Global Migration and the Environment<br>GLOBAL 330 Selected Topics in Contemporary Sustainable Futures<br>GLOBAL 498 Seminar in Contemporary Global Issues<br>INTBUS 445 (POLS 445) International Trade and Investment Law<br>POLS 305 Comparative Politics: Theories, Methods, and Political Processes<br>POLS 306 International Relations: Actors, Interactions, and Methods<br>POLS 409 Environmental Politics<br>POLS 421 International Law and Organization<br>POLS 429 International Political Economy<br>SOC 440 Environmental Sociology | 9          |
| Upper-division electives to total 40 credits  | 16-19      |
| Electives to total 120 credits  | 2-6        |
| <b>Total</b>  | <b>120</b> |

|   |            |
|---|------------|
| <b>World Cultures Emphasis</b>  |            |
| Choose one (1) of the following:<br>ANTH 102 Cultural Anthropology<br>ARTHIST 102 Survey of Western Art II<br>ARTHIST 103 Survey of Far Eastern Art   | 3          |
| ENGL 275 Methods of Literary Studies  | 3          |
| Choose one (1) of the following:<br>FREN 303 Advanced Conversation and Composition<br>GERM 303 Advanced Conversation and Composition<br>LING 305 Introduction to Language Studies<br>POLS 305 Comparative Politics: Theories, Methods, and Political Processes<br>SOC 412 Qualitative Social Research Methods<br>SPAN 301 Conversational Spanish  | 3          |
| Choose three (3) from the following courses, which must be from at least two (2) disciplines:<br>Any upper-division BASQ-STD, FREN, GERM, SPAN, or WORLD<br>Any upper-division history course<br>ART 300 Multicultural Arts<br>ARTHIST 354 Northern Renaissance Art<br>ARTHIST 356 Art of India<br>ARTHIST 359 Pre-Columbian Art<br>ENGL 338 Literature in Translation<br>ENGL 390 Ethnic Literature<br>ENGL 396 Postcolonial Literature<br>ENGL 408 Writing for Nonprofits & Software Documentation<br>*GENDER 301 Feminist Theory<br>GLOBAL 340 Selected Topics in Contemporary World Cultures<br>GLOBAL 498 Seminar in Contemporary Global Issues<br>HIST 310 Forced to Flee: Refugees in European History<br>LING 321 Introduction to Sociolinguistics<br>LING 331 The Politics of Language<br>SOC 305 Race and Cultural Minorities<br>SOC 407 Sociology of Religion<br>SOC 421 Social Inequality | 9          |
| Upper-division electives to total 40  | 10-13      |
| Electives to total 120 credits  | 8-12       |
| <b>Total</b>  | <b>120</b> |
| <b>World Economics Emphasis</b>   |            |
| ECON 201 Principles of Macroeconomics   | 3          |
| POLS 298 Introduction to Political Inquiry  | 3          |
| POLS 398 Advanced Political Science Methods   | 3          |
| Choose three (3) of the following courses, from at least two (2) disciplines:<br>ECON 311 History of Economic Thought<br>ECON 315 Global Economic Development<br>ECON 317 International Economics<br>ECON 325 Heterodox Political Economy<br>ECON 333 Natural Resource Economics<br>ECON 410 (POLS 410) Public Finance<br>ECON 474 Sustainability and Economic Policy<br>GLOBAL 350 Selected Topics in Contemporary World Economics<br>GLOBAL 498 Seminar in Contemporary Global Issues<br>INTBUS 445 (POLS 445) International Trade and Investment Law<br>POLS 305 Comparative Politics: Theories, Methods, and Political Processes<br>POLS 306 International Relations: Actors, Interactions, and Methods<br>POLS 421 International Law and Organization<br>POLS 428 Seminar in Contemporary Comparative Politics<br>POLS 429 International Political Economy                                       | 9          |
| Upper-division electives to total 40 credits  | 10-13      |
| Electives to total 120 credits  | 8-12       |
| <b>Total</b>  | <b>120</b> |
| *These courses have a prerequisite that is not for the major, but is required prior to taking this course.  |            |

| Global Studies Minor  |         |
|---|---------|
| Course Number and Title   | Credits |
| GLOBAL 101 Global Studies: Conflict, Cooperation & Change   | 3       |
| GLOBAL 200 Global Culture and Politics through Film   | 3       |
| Foreign Language (one-year sequence of single language. Excludes American Sign Language and Latin. )  | 6-8     |
| Two (2) of the following:<br>GLOBAL 300 World Literatures<br>GLOBAL 301 History of Globalization<br>GLOBAL 302 Social & Political Change in the Global South<br>GLOBAL 303 Global Economic Development<br>GLOBAL 304 Sustainable Futures  | 6       |
| Take 6 credits from at least two different disciplines.<br>ANTH 307, ANTH 314, ANTH 350, ART 300, ARTHIST 354, ARTHIST 356, ARTHIST 359, any upper-division BASQ-STD, CANSTD 301, CANSTD 302, ECON 311, ECON 315, ECON 317, ECON 325, ECON 333, ECON 410, ECON 474, ENGL 338, ENGL 390, ENGL 396, FREN 376, FREN 404, FREN 420, FREN 475, FREN 490, GERM 377, GERM 404, GERM 405, GERM 420, GERM 455, GERM 475, GERM 477, GERM 490, GEOS 305, GLOBAL 439, GLOBAL 493, GLOBAL 498, HIST 310, HIST 319, HIST 326, HIST 327, HIST 339, HIST 363, HIST 365, HIST 368, HIST 369, HIST 372, HIST 373, LING 321, LING 331, PHIL 321, POLS 409, POLS 420, POLS 421, POLS 422, POLS 423, POLS 424, POLS 425, POLS 426, POLS 427, POLS 428, POLS 429, POLS 430, POLS 431, POLS 432, POLS 433, POLS 445, SOC 305, SOC 306, SOC 307, SOC 332, SOC 333, SOC 395, SOC 407, SOC 421, SOC 440, SPAN 376, SPAN 377, SPAN 385, SPAN 403, SPAN 404, SPAN 405, SPAN 406, SPAN 425, SPAN 430, SPAN 440, SPAN 450, SPAN 475, SPAN 476, SPAN 491, WORLD 310, WORLD 320, WORLD 321, WORLD 381, or a university-sponsored semester abroad (requires department approval) | 6       |
| Total   | 24-26   |

## Course Offerings

### GLOBAL—Global Studies

#### Lower Division

**GLOBAL 101 GLOBAL STUDIES: CONFLICT, COOPERATION, AND CHANGE (3-0-3)(F/S)(FS).** This course introduces students to key cultural, economic, social and political processes that shape today's world. Students will use the comparative method to identify key similarities and differences across continents, countries, and local communities.

**GLOBAL 200 CULTURAL AND POLITICAL CHANGE THROUGH FILM (3-0-3)(F/S).** In this course, students explore cultures and political conflicts through the use of cinema. This course focuses on ideas and arguments that directors are making through their films. PREREQ: ENGL 102.

#### Upper Division

**GLOBAL 300 WORLD LITERATURES (3-0-3)(F/S).** Survey of literary works from various regions of the world with an emphasis on texts that will provide students a greater understanding of contemporary global issues. Students will analyze and compare the ways in which factors such as race, religion, gender, history, and politics influence diverse cultures. PREREQ: GLOBAL 200 or PERM/INST.

**GLOBAL 301 HISTORY OF GLOBALIZATION (3-0-3)(F/S).** In this course, students will examine the origins of the globalized world. Early exploration, imperialism, the post-Second World War international order, and current manifestations of globalization will be discussed. Topics including trade, banking, international organizations, climate change, and population movement will be analyzed throughout. PREREQ: GLOBAL 200 or PERM/INST.

**GLOBAL 302 SOCIAL AND POLITICAL CHANGE IN THE GLOBAL SOUTH (3-0-3)(F/S).** In this course students analyze the wide variation in

governments, political regimes, and social development. Particular attention is paid to the constraints on and opportunities for political and social change. The course includes a comparative analysis of countries within the global south as well as comparison between the global south and north. PREREQ: GLOBAL 200 or PERM/INST.

**GLOBAL 303 (ECON 315) GLOBAL ECONOMIC DEVELOPMENT (3-0-3)(S).** Economic development within the context of the global economy. Analysis of the sharp differences in economic development across the world. Different theories and applied methods to better understand the world's development problems such as growing inequality between nations and within nations, stagnation in developing countries, as well as the possible socioeconomic consequences of those problems. How political and economic institutions interact in creating poverty or prosperity, and why different parts of the world end up with different institutions. May be taken for ECON or GLOBAL credit, but not both. PREREQ: ECON 201.

**GLOBAL 304 SUSTAINABLE FUTURES (3-0-3)(F/S).** In this course, students will explore the challenge of sustainable development in the context of global environmental change. Students will explore current efforts to combat the negative effects of global environmental change and consider alternative development options that could slow human-induced aspects of global environmental change. Students will consider ways in which global environmental change is experienced by diverse groups of people. PREREQ: Environmental Studies major or minor, or GLOBAL 200, or PERM/INST.

**GLOBAL 320 SELECTED TOPICS IN CONTEMPORARY INTERNATIONAL RELATIONS (3-0-3)(F/S).** Intensive study of a particular issue or problem in international relations. Consult current class schedule for specific selections offered each term. May be repeated three times for credit. PREREQ: Global Studies major or minor, with junior standing or above; POLS 305 or 306; or PERM/INST.

**GLOBAL 330 SELECTED TOPICS IN CONTEMPORARY SUSTAINABLE FUTURES (3-0-3)(F/S).** Intensive study of a particular issue or problem in comparative politics. Consult current class schedule for specific selections offered each term. May be repeated three times for credit. PREREQ: POLS 305; or International Business or Global Studies major or minor, with junior standing or above or PERM/INST.

**GLOBAL 340 SELECTED TOPICS IN CONTEMPORARY WORLD CULTURES (3-0-3)(F/S).** Intensive study of a particular issue or problem in World Cultures. Consult current class schedule for specific selections offered each term. May be repeated three times for credit. PREREQ: Global Studies major or minor, with junior standing or above; English linguistics, literature, teaching, or writing, rhetoric and technical communication major or minor, with junior standing or above or PERM/INST.

**GLOBAL 350 SELECTED TOPICS IN CONTEMPORARY WORLD ECONOMICS (3-0-3)(F/S).** Intensive study of a particular issue or problem in world economics. Consult current class schedule for specific selections offered each term. May be repeated three times for credit. PREREQ: POLS 305; or International Business or Global Studies major or minor, with junior standing or above or PERM/INST.

**GLOBAL 498 SEMINAR IN CONTEMPORARY GLOBAL ISSUES (3-0-3)(F/S).** Intensive study of a particular global issue, topic or problem. Consult current class schedule for specific selections offered each term. May be repeated. PREREQ: GLOBAL 200 or PERM/INST.

**GLOBAL 499 CAPSTONE RESEARCH SEMINAR (3-0-3)(F/S)(FF).** Finishing foundation course that will focus on producing a final research project in each student's area of choice. Students will develop a research question, collect evidence and data, and write and present a thesis. PREREQ: Senior standing and two of the following: GLOBAL 300, GLOBAL 301, GLOBAL 302, GLOBAL 303, GLOBAL 304.

## Department of History

College of Arts and Sciences

Albertsons Library, Room 192  
(208) 426-1255 (phone)  
bsuhistory@boisestate.edu (email)  
<https://www.boisestate.edu/history/> (website)

*Chair and Professor:* Nick Miller. *Professors:* Bieter, Brady, Gill, Klein, McClain.  
*Associate Professors:* Huntley, Lubamersky, Walker. *Assistant Professors:* Krohn, Meftahi, Nichols, Reinhardt. *Lecturers:* Hadley, Ysursa.

*Secondary Education Advisor:* John Ysursa.

*Coordinator of Graduate Studies:* David Walker.

*Internship Coordinator:* Bob Reinhardt

### Degrees Offered

- Bachelor of Arts in History
- Bachelor of Arts in History, Multidisciplinary, Secondary Education
- Bachelor of Arts in History, Social Studies, Secondary Education
- Minor in History
- Minor in Refugee Studies

### Department Statement

The department of history offers three baccalaureate degree programs: history, bachelor of arts (36 hours of history); history, multidisciplinary, secondary education, bachelor of arts (30 hours of history, 20 hours in another discipline that meets the State requirements for that teaching endorsement); and history, social studies, secondary education, bachelor of arts (20 hours of history, 36 hours in social studies). The history, bachelor of arts degree helps students prepare for either graduate study in history or careers related to history; in addition, it provides a broad liberal arts training.

The history, multidisciplinary, secondary education, bachelor of arts degree prepares students for teaching careers. It offers students the opportunity for two endorsements and the flexibility of choosing from a broad list of options. (See the catalog for subject-specific requirements. )

The history, social studies, secondary education, bachelor of arts degree also prepares students for teaching careers. It offers students an endorsement in history and social studies which allows students to teach history, political science, economics, and geography.

A history liberal arts minor consisting of 9 credit hours of lower-division history core courses, and 12 credit hours of upper-division history courses. This minor is available for students with majors outside of history.

A history teaching endorsement consisting of 12 credits of lower-division history core courses, 3 credits of political science, and 12 credits of upper-division history is available for students with secondary education majors.

### Degree Requirements

| History<br>Bachelor of Arts  |         |
|--|---------|
| Course Number and Title  | Credits |
| University Foundations requirements indicated in bold. See page 48 for details and lists of approved courses.  |         |
| <b>UF 100</b> Foundations of Intellectual Life   | 3       |
| <b>UF 200</b> Foundations of Ethics and Diversity  | 3       |
| <b>FW ENGL 101</b> Writing and Rhetoric I  | 3       |
| <b>FW ENGL 102</b> Writing and Rhetoric II   | 3       |
| <b>FC</b> Foundations of Oral Communication  | 3       |
| <b>FM</b> Foundations of Mathematics course  | 3-4     |
| <b>FN</b> Foundations of Natural, Physical, & Applied Sciences course with lab   | 4       |
| <b>FN</b> Foundations of Natural, Physical, & Applied Sciences course in a second field  | 3-4     |
| <b>FA</b> Foundations of Arts course   | 3       |
| <b>FH ENGL 175, HUM 207, PHIL 101, PHIL 102, or PHIL 103</b>   | 3       |
| <b>FS POLS 101</b> American National Government (recommended)  | 3       |
| <b>FS</b> Foundations of Social Sciences course in a second field other than history   | 3       |
| One (1) year of college-level foreign language in sequence. Language equivalency required by the History Department will be determined by the Department of World Languages or the History Department.   | 8       |
| Two (2) Courses chosen from:<br>HIST 101 World History I<br>HIST 102 World History II<br>HIST 103 History of Western Civilization I: Prehistory to the 17th Century<br>HIST 104 History of Western Civilization II: 17th Century to Present<br>HIST 111, 112 United States History I, II<br>HIST 121 Asian Civilizations<br>HIST 131 Latin American Civilizations<br>HIST 141 African Civilizations<br>HIST 151 Islamic Civilization   | 6       |
| Two (2) Courses chosen from:<br>HIST 223 Introduction to Environmental History<br>HIST 234 Ancient Civilizations of the Mediterranean<br>HIST 245 Medieval Europe<br>HIST 246 The History of Everyday Life in Europe<br>HIST 253 Medieval Islamic History<br>HIST 262 Witnessing Latin America<br>HIST 268 Working in America: Class, Labor, and Inequality<br>HIST 274 Fact, Fiction, and History<br>HIST 280 History of Love and War | 6       |
| HIST 220 The Historical Craft<br>(Must be completed with a grade of C or better)   | 3       |

|   |       |
|---|-------|
| European History course chosen from:<br>HIST 300 Daily Life in the Roman World<br>HIST 302 The Roman Republic<br>HIST 306 Bonfires & Bells: Medieval & Renaissance Religion & Culture<br>HIST 308 The Age of Renaissance and Reformation<br>HIST 309 The Old Regime and the French Revolution<br>HIST 310 Forced to Flee: Refugees in European History<br>HIST 311 Religions of the Ancient Mediterranean<br>HIST 319 Europe Since the Second World War<br>HIST 320 Global Diaspora: Refugees in the Modern World<br>HIST 322 Saints And Sinners: Women In Christianity<br>HIST 323 The History of Marriage and the Family in Europe<br>HIST 324 History of European Women<br>HIST 325 History of Socialism<br>HIST 326 History of the Holocaust<br>HIST 327 World War I<br>HIST 329 History of European Film<br>HIST 343 History and Memory<br>HIST 380 Themes in European History   | 3     |
| History of the Americas course chosen from:<br>HIST 330 Human Rights Past and Present<br>HIST 332 Colonial America<br>HIST 334 Civil War and Reconstruction<br>HIST 335 Framing the United States: 1776-1800<br>HIST 336 Jacksonian America: 1800-1850<br>HIST 338 The History of U.S. -Latin American Relations<br>HIST 339 United States Military History: 1775-Present<br>HIST 341 Native American History<br>HIST 342 History of the American West<br>HIST 346 Women and Gender in the U.S. West<br>HIST 347 America in the 1960s<br>HIST 348 American Religious History<br>HIST 349 History of Multicultural America<br>HIST 350 United States Economic History<br>HIST 351 North American Environmental History<br>HIST 352 America Sees Red<br>HIST 353 The Making of the Modern American City<br>HIST 354 The Pacific World<br>HIST 355 The Atlantic World<br>HIST 356 Debating Capitalism: The History of American Economic Thought<br>HIST 357 When the Bottom Falls Out: Economic Crisis in American History<br>HIST 358 Global Capitalism<br>HIST 363 History of Mexico<br>HIST 365 Borders and Borderlands in Latin America<br>HIST 366 The Caribbean in the American Century<br>HIST 367 Modern Latin America<br>HIST 381 Themes in the History of the Americas<br>HIST 390 United States Immigration History | 3     |
| Non-Western History course chosen from:<br>HIST 321 Environmental History of Modern East Asia<br>HIST 340 The Korean War<br>HIST 368 The Islamic Middle East<br>HIST 369 The Modern Middle East<br>HIST 370 Ottoman History<br>HIST 372 The History of Modern Southeast Asia<br>HIST 373 The History of Modern China<br>HIST 376 Global Environmental History<br>HIST 378 The Making of Modern Japan<br>HIST 382 Themes in non-Western History<br>HIST 389 Environmental History of Modern War  | 3     |
| Additional upper-division history courses   | 9     |
| <b>FF</b> HIST 498 Senior Research Seminar  | 3     |
| Upper-division electives to total 40 credits  | 19    |
| Electives to total 120 credits  | 18-20 |
| Total   | 120   |

Both the History, Secondary Education and the History, Social Science, Secondary Education programs combine content knowledge, theories of learning and human development, study of curriculum, and methodology, to help students develop the knowledge, skills and dispositions essential for

success in secondary school teaching. These programs are grounded in the conceptual framework of the Professional Educator. Professional educators adjust their teaching approaches and learning environment to the needs and backgrounds of their students. Candidates who complete these programs have demonstrated evidence of meeting the Idaho Beginning Teacher Standards and are eligible for recommendation for state certification.

Students wishing to pursue these degrees must meet the requirements and standards for admission to teacher education, which are described fully under the Department of Curriculum, Instruction, and Foundational Studies or at <https://www.boisestate.edu/education/>. Students must meet all knowledge, skill, and disposition requirements to remain in the program.

| History, Social Studies, Secondary Education Bachelor of Arts   |         |
|---|---------|
| Course Number and Title   | Credits |
| University Foundations requirements indicated in bold. See page 48 for details and lists of approved courses.   |         |
| <b>UF</b> 100 Foundations of Intellectual Life  | 3       |
| <b>UF</b> 200 Foundations of Ethics and Diversity   | 3       |
| <b>FW</b> ENGL 101 Writing and Rhetoric I   | 3       |
| <b>FW</b> ENGL 102 Writing and Rhetoric II  | 3       |
| <b>FC</b> Foundations of Oral Communication   | 3       |
| <b>FM</b> MATH 123 Math in Modern Society (recommended)   | 3-4     |
| <b>FN</b> Foundations of Natural, Physical, & Applied Sciences course with lab  | 4       |
| <b>FN</b> Foundations of Natural, Physical, & Applied Sciences course in a second field   | 3-4     |
| <b>FA</b> Foundations of Arts course  | 3       |
| <b>FH</b> ENGL 175, HUM 207, PHIL 101, PHIL 102, or PHIL 103  | 3       |
| <b>FS</b> ED-CIFS 201 Education, Schooling, and Society   | 3       |
| <b>FS</b> POLS 101 American National Government   | 3       |
| EDTECH 202 Teaching and Learning in a Digital Age   | 3       |
| ED-CIFS 301* Teaching Experience I  | 2       |
| ED-CIFS 302* Learning and Instruction   | 4       |
| ED-CIFS 401* Professional Year—Teaching Experience II   | 3       |
| ED-CIFS 405* Teaching Secondary Social Studies  | 3       |
| ED-LLC 444* Content Literacy for Secondary Students   | 3       |
| ED-ESP 350* Teaching Students with Exceptional Needs at the Secondary Level   | 3       |
| Teaching Experience III/IV*   | 14      |
| *You must apply for admission to secondary teacher education to enroll in these upper-division education courses. Completion of all requirements for graduation with a secondary education option may require more than 120 credit hours. See Department of Curriculum, Instruction, and Foundational Studies for more information. |         |
| One (1) year of college-level foreign language in sequence<br>Language equivalency required by the History Department will be determined by the Department of World Languages or the History Department.  | 8       |
| HIST 111 United States History I  | 3       |
| HIST 112 United States History II   | 3       |
| HIST 222 History for Teachers<br>(Must be completed with a grade of C or better)  | 3       |

# HISTORY

|   |         |
|---|---------|
| Two courses chosen from:<br>HIST 101 World History I<br>HIST 102 World History II<br>HIST 103 History of Western Civilization I: Prehistory to the 17th Century<br>HIST 104 History of Western Civilization II: 17th Century to Present<br>HIST 121 Asian Civilizations<br>HIST 131 Latin American Civilizations<br>HIST 141 African Civilizations<br>HIST 151 Islamic Civilization<br>HIST 223 Introduction to Environmental History<br>HIST 234 Ancient Civilizations of the Mediterranean<br>HIST 245 Medieval Europe<br>HIST 246 The History of Everyday Life in Europe<br>HIST 253 Medieval Islamic History<br>HIST 262 Witnessing Latin America<br>HIST 268 Working in America: Class, Labor, and Inequality<br>HIST 274 Fact, Fiction, and History<br>HIST 280 History of Love and War | 6       |
| One course from two distinct regions listed below   | 6       |
| Region—European History:<br>HIST 300, HIST 302, HIST 306, HIST 308, HIST 309, HIST 310, HIST 311, HIST 319, HIST 320, HIST 322, HIST 323, HIST 324, HIST 325, HIST 326, HIST 327, HIST 329, HIST 343, HIST 380  |         |
| Region—History of the Americas:<br>HIST 330, HIST 332, HIST 334, HIST 335, HIST 336, HIST 338, HIST 339, HIST 341, HIST 342, HIST 346, HIST 347, HIST 348, HIST 349, HIST 350, HIST 351, HIST 352, HIST 353, HIST 354, HIST 355, HIST 356, HIST 357, HIST 358, HIST 363, HIST 365, HIST 366, HIST 367, HIST 381, HIST 390   |         |
| Region—Non-Western History:<br>HIST 321, HIST 340, HIST 345, HIST 368, HIST 369, HIST 370, HIST 372, HIST 373, HIST 376, HIST 378, HIST 382, HIST 389   |         |
| <b>FF</b> HIST 498 Senior Research Seminar  | 3       |
| Economics   | 12      |
| Geography   | 12      |
| Political Science   | 9       |
| <b>Total</b>  | 131-133 |

| History, Multidisciplinary, Secondary Education Bachelor of Arts  |                |
|---|----------------|
| <i>Course Number and Title</i>  | <i>Credits</i> |
| University Foundations requirements indicated in bold. See page 48 for details and lists of approved courses. |                |
| <b>UF</b> 100 Foundations of Intellectual Life  | 3              |
| <b>UF</b> 200 Foundations of Ethics and Diversity   | 3              |
| <b>FW</b> ENGL 101 Writing and Rhetoric I   | 3              |
| <b>FW</b> ENGL 102 Writing and Rhetoric II  | 3              |
| <b>FC</b> Foundations of Oral Communication   | 3              |
| <b>FM</b> Foundations of Mathematics course   | 3-4            |
| <b>FN</b> Foundations of Natural, Physical, & Applied Sciences course with lab                                | 4              |
| <b>FN</b> Foundations of Natural, Physical, & Applied Sciences course in a second field                       | 3-4            |
| <b>FA</b> Foundations of Arts course  | 3              |
| <b>FH</b> Foundations of Humanities course in a foreign language  | 3-4            |
| <b>FS</b> ED-CIFS 201 Education, Schooling, and Society   | 3              |
| <b>FS</b> POLS 101 American National Government   | 3              |

|  |         |
|--|---------|
| EDTECH 202 Teaching and Learning in a Digital Age  | 3       |
| ED-CIFS 301* Teaching Experience I   | 2       |
| ED-CIFS 302* Learning and Instruction  | 4       |
| ED-CIFS 401* Professional Year—Teaching Experience II  | 3       |
| ED-CIFS 405* Teaching Secondary Social Studies   | 3       |
| ED-LLC 444* Content Literacy for Secondary Students  | 3       |
| ED-ESP 350* Teaching Students with Exceptional Needs at the Secondary Level  | 3       |
| Teaching Experience III/IV*  | 14      |
| *You must apply for admission to secondary teacher education to enroll in these upper-division education courses.<br>Completion of all requirements for graduation with a secondary education option may require more than 120 credit hours. See Department of Curriculum, Instruction, and Foundational Studies for more information. |         |
| Additional course in the same foreign language as used to satisfy the <b>FH</b> requirement to equal one (1) year of college-level foreign language in sequence.<br>Language equivalency required by the History Department will be determined by the Department of World Languages or the History Department.                         | 4       |
| HIST 111 United States History I   | 3       |
| HIST 112 United States History II  | 3       |
| HIST 222 History for Teachers<br>(Must be completed with a grade of C or better)   | 3       |
| Courses chosen from:<br>HIST 101, HIST 102, HIST 103, HIST 104, HIST 121, HIST 131, HIST 141, HIST 151, HIST 223, HIST 234, HIST 245, HIST 246, HIST 253, HIST 262, HIST 268, HIST 274, HIST 280   | 9       |
| European History course chosen from:<br>HIST 300, HIST 302, HIST 306, HIST 308, HIST 309, HIST 310, HIST 311, HIST 319, HIST 320, HIST 322, HIST 323, HIST 324, HIST 325, HIST 326, HIST 327, HIST 329, HIST 343, HIST 380   | 3       |
| History of the Americas course chosen from:<br>HIST 330, HIST 332, HIST 334, HIST 335, HIST 336, HIST 338, HIST 339, HIST 341, HIST 342, HIST 346, HIST 347, HIST 348, HIST 349, HIST 350, HIST 351, HIST 352, HIST 353, HIST 354, HIST 355, HIST 356, HIST 357, HIST 358, HIST 363, HIST 365, HIST 366, HIST 367, HIST 381, HIST 390  | 3       |
| Non-Western History course chosen from:<br>HIST 321, HIST 340, HIST 345, HIST 368, HIST 369, HIST 370, HIST 372, HIST 373, HIST 376, HIST 378, HIST 382, HIST 389  | 3       |
| <b>FF</b> HIST 498 Senior Research Seminar   | 3       |
| Endorsement field other than history (See catalog for teaching endorsement requirements. Note: political science will need only 18 credits over those already required. )  | 18-21   |
| <b>Total</b>   | 124-130 |



| History Minor  |                |
|--|----------------|
| <i>Course Number and Title</i>   | <i>Credits</i> |
| History courses chosen from the following:<br>HIST 101 World History I<br>HIST 102 World History II<br>HIST 103 History of Western Civilization I: Prehistory to the 17 <sup>th</sup> Century<br>HIST 104 History of Western Civilization II: 17 <sup>th</sup> Century to Present<br>HIST 111, 112 United States History<br>HIST 121 Asian Civilizations<br>HIST 131 Latin American Civilizations<br>HIST 141 African Civilizations<br>HIST 151 Islamic Civilization<br>HIST 223 Introduction to Environmental History<br>HIST 234 Ancient Civilizations of the Mediterranean<br>HIST 245 Medieval Europe<br>HIST 246 The History of Everyday Life in Europe<br>HIST 253 Medieval Islamic History<br>HIST 262 Witnessing Latin America<br>HIST 268 Working in America: Class, Labor, and Inequality<br>HIST 274 Fact, Fiction, and History<br>HIST 280 History of Love and War | 9              |
| Upper-division history courses selected in consultation with a department advisor which meet the interests and needs of the student  | 12             |
| Total  | 21             |

| History Teaching Endorsement   |                |
|--|----------------|
| <i>Course Number and Title</i>   | <i>Credits</i> |
| World History Survey courses chosen from the following:<br>HIST 101 World History I<br>HIST 102 World History II<br>HIST 103 History of Western Civilization I: Prehistory to the 17 <sup>th</sup> Century<br>HIST 104 History of Western Civilization II: 17 <sup>th</sup> Century to Present<br>HIST 121 Asian Civilizations<br>HIST 131 Latin American Civilizations<br>HIST 141 African Civilizations<br>HIST 151 Islamic Civilization | 6              |
| HIST 111 United States History I   | 3              |
| HIST 112 United States History II  | 3              |
| POLS 101 American National Government  | 3              |
| Upper-division history courses selected from at least two (2) of the following major geographic areas European, the Americas, or Non-Western   | 9              |
| Total  | 24             |
| See Department of Curriculum, Instruction, and Foundational Studies for more information.  |                |

| Refugee Studies Minor  |                |
|--|----------------|
| <i>Course Number and Title</i>   | <i>Credits</i> |
| HIST 310 Forced to Flee: Refugees in European History or<br>HIST 320 Global Diaspora: Refugees in the Modern World | 3              |
| REFUGEE 407 (SOCWRK 407) Principles of Refugee Resettlement  | 3              |
| 493 Internship: Working with Refugees  | 3              |

|  |    |
|--|----|
| Electives in at least four (4) different disciplines chosen from:<br>ANTH 306 Kinship and Social Organization<br>ANTH 425 Medical Anthro: Disease, Culture & Healing<br>COMM 351 Intercultural Communication<br>CJ 103 Introduction to Law and Justice<br>CONFLICT 405 Culture and Conflict<br>ECON 315 Global Economic Development<br>ED-LLC 200 Cultural Diversity in the School<br>ENGL 216 Literature and Global Consciousness<br>ENGL 396 Postcolonial Literature<br>EOHS 230 Introduction to Environmental Health<br>GENDER 200 Introduction to Gender Studies<br>GEOG 200 World Regional Geography<br>HIST 369 History of Modern Middle East<br>HIST 372 The History of Modern Southeast Asia<br>LING 305 Introduction to Language Studies<br>LING 310 First and Second Language Acquisition<br>LING 321 Introduction to Sociolinguistics<br>LING 327 Applied Linguistics in Teaching English to Speakers of Other Languages<br>LING 331 The Politics of Language<br>POLS 306 Introduction to International Relations<br>POLS 421 International Law and Organization<br>PSYC 219 Cross-Cultural Psychology<br>PSYC 419 Children & Families: Multicultural Perspectives<br>REFUGEE 408/SOCWRK 408 Working with Refugees Across Cultures<br>REFUGEE 409/SOCWRK 409 Case Mgmt with Refugees<br>REFUGEE 410/SOCWRK 410 Intro to Refugee Program Supervision & Mgmt<br>REFUGEE 411/SOCWRK 411 Adv Refugee Macro Practice<br>SOC 230 Introduction to Ethnic Studies<br>SOC 305 Racial and Cultural Minorities | 12 |
| Total  | 21 |

## Course Offerings

### HIST—History

All history courses specifically required for the major are offered each semester allowing for some flexibility in student scheduling. However, the department strongly encourages history majors to take HIST 220 by the second semester sophomore year before taking any upper-division history courses.

#### Lower Division

**HIST 101 WORLD HISTORY I (3-0-3)(F, S, SU)(FS).** A survey of world history from antiquity to the Age of Discovery (c. 1500), focusing on the chief political, social, and religious foundations of the world's major civilizations (East Asia, India, Middle East, Europe, and pre-Columbian America). Special attention will be given to patterns of cross-cultural interchange and the dynamics of historical change.

**HIST 102 WORLD HISTORY II (3-0-3)(F, S, SU)(FS).** A survey of world history from the Age of Discovery (c. 1500) to the present, focusing on increasing global interaction since the 16th century, the emergence of the modern world-view, European political and economic expansion, and non-Western responses to the challenges of the modern world.

**HIST 103 HISTORY OF WESTERN CIVILIZATION I: PREHISTORY TO THE 17<sup>TH</sup> CENTURY (3-0-3)(F, S, SU).** Introduces methods of historical interpretation and presents a political, economic, and cultural survey of western civilization from the earliest settled communities of the ancient Near East in the fourth millennium BCE through the cultural renaissance and religious reformation of western Europe in the sixteenth and seventeenth centuries CE.

**HIST 104 HISTORY OF WESTERN CIVILIZATION II: 17<sup>TH</sup> CENTURY TO PRESENT (3-0-3)(F, S, SU).** Introduces methods of historical interpretation and presents a political, economic, and cultural survey of western civilization from the end of the religious wars of the seventeenth century through the twenty-first century of the modern era.

**HIST 111 UNITED STATES HISTORY I (3-0-3)(F, S)(FS).** Surveys American society from pre-Columbian times through the Civil War era, with

## HISTORY

emphasis on the formative issues and conflicts that shape national politics and culture.

**HIST 112 UNITED STATES HISTORY II (3-0-3)(F, S)(FS).** Surveys the issues and conflicts influencing American development from the Civil War to the present, including economic, military, political, international, and socio-cultural factors.

**HIST 121 ASIAN CIVILIZATIONS (3-0-3)(F, S).** Introduces methods of historical interpretation and presents a topical and chronological historical survey of China and Japan, exploring philosophies, religions, cultures, and social patterns. Western intrusion into Asia and the Asians' reactions to the West are included. Other areas of Asia, including India, Korea, and Southeast Asia will also be integrated.

**HIST 131 LATIN AMERICAN CIVILIZATIONS (3-0-3)(F/S).** Introductory overview of the main historical trends that explain current cultural, social, ethnic, political and economic characteristics of Latin America.

**HIST 141 AFRICAN CIVILIZATIONS (3-0-3)(F/S).** Surveys the history of Africa from antiquity to present with emphasis on sub-Saharan regions. Potential topics include: Africa in the Ancient World; the rise of Islam; the advent and development of European colonialism; the trans-Atlantic mercantile system; the genesis of modern Africa; decolonization; selected topics on independent Africa.

**HIST 151 ISLAMIC CIVILIZATION (3-0-3)(F/S).** Surveys the history of Islamic civilization from early times to present, covering pre-Islamic influences, the age of the Prophet Muhammad and the Caliphate, the spread and variation of Islam as a vital world religion, relations between Islam and Christendom, the development of Islamic empires, and the contemporary situation.

**HIST 220 THE HISTORICAL CRAFT (3-0-3)(F, S).** Using a major historical theme as a foundation, students will examine the philosophy of history, historiography, and methods of historical research. One component of the course will be writing a historical research paper. The historical content of the course will vary. Required of all history majors, prior to taking any upper-division history courses. PREREQ: ENGL 102.

**HIST 222 HISTORY FOR TEACHERS (3-0-3)(F/S).** Designed for history, multidisciplinary, secondary education and history, social studies, secondary education majors, this course offers students an opportunity to discern this career path by focusing on historical thinking skills and their use in our lives. PREREQ: History, Multidisciplinary, Secondary Education BA major or History, Social Studies, Secondary Education BA major.

**HIST 223 INTRODUCTION TO ENVIRONMENTAL HISTORY (3-0-3)(F/S/SU).** Explores the field of environmental history through primary source analysis. Students will conduct semester-long projects focused on researching the history of places that are significant to them.

**HIST 234 ANCIENT CIVILIZATIONS OF THE MEDITERRANEAN (3-0-3)(F/S).** Examines the various cultures inhabiting the Mediterranean from prehistory through the 4th century CE. Focus will be on the cultures of Greece and Italy, with some reference to Egypt, the Levant, the Near East, and Northwest Europe. Topics will include the rise of city-states, political and economic development, sex and gender, colonization and colonialism, households, and religions. Emphasis will be on methodological approaches and issues.

**HIST 245 MEDIEVAL EUROPE (3-0-3)(F/S).** Examines the political, religious, economic, and cultural development of Western Europe from the fourth to the fourteenth century. Topics will include the rise and elaboration of monasticism, the Carolingian empire, feudalism and chivalry, the Gregorian papacy, and the cultural achievements of the twelfth century renaissance. Emphasis will be on methodological approaches and issues.

**HIST 246 THE HISTORY OF EVERYDAY LIFE IN EUROPE (3-0-3)(F/S).** Course focuses on the lived experience of ordinary people in their everyday lives. This course focuses on the methodologies and techniques of the historians of everyday life including micro-history and geospatial analysis. We will explore some of the essential questions of history, namely, can academic history ever create an accurate representation of the past, or "history as it

actually was?" And finally, can historians reconstruct the voices of the people of the past?

**HIST 253 MEDIEVAL ISLAMIC HISTORY (3-0-3)(F/S).** An in-depth introduction to Islamic history from pre-Islamic Arabia, Muhammad, the Caliphates, Abbasid cultural life, conversion to Islam, and the rapid growth of the Islamic empire against a backdrop of political intrigue, civil war, revolution, mass migration and urbanization. Emphasis will be on methodological approaches and issues.

**HIST 262 WITNESSING LATIN AMERICA (3-0-3)(F/S).** Who gets to tell their own story? How do we interpret history through the lens of an individual life? Using autobiography, oral history, interviews, and testimonial accounts, this course investigates themes in Latin American history such as nationalism, development, revolution, indigenous peoples' and workers' rights. Seminar style course based in discussion of sources.

**HIST 268 WORKING IN AMERICA: CLASS, LABOR, AND INEQUALITY (3-0-3)(F/S).** An analysis of inequality, capitalist development, and the American working-class experience. Through intensive analysis of primary sources in labor history—everything from diaries and speeches to union records and folk songs—this seminar course explores what it has meant, historically, to be a farmer, slave, wage laborer, manager, or owner in the American capitalist economy. Emphasis will be on methodological approaches and issues.

**HIST 274 FACT, FICTION, AND HISTORY (3-0-3)(F/S).** Is knowing the truth about historical events or processes possible? Might fictional approaches provide as much or more insight into historical processes as traditional ones? This class will closely examine several historical case studies using film, literature, and a range of traditional primary source materials in order to test the limits and possibilities of discovering historical truth.

**HIST 280 HISTORY OF LOVE AND WAR (3-0-3)(F/S).** Course historically examines the intimate and passionate relationship between loving and killing. Topics include attempts to bring peace and justice to the world, and how people justify war and crimes against humanity. Poetry, letters, religious texts, historical documents planning for world peace and plans for genocide are some of the sources examined.

### Upper Division

**HIST 300 DAILY LIFE IN THE ROMAN WORLD (3-0-3)(F/S).** Using literary, epigraphic, and archaeological evidence, this course investigates daily life in the Roman world at the height of Rome's power. It covers a wide array of topics from urban living, housing, slavery, family life, religion, and the economy. Students will be introduced to the theoretical and methodological issues involved in studying social history. PREREQ: upper-division standing.

**HIST 302 THE ROMAN REPUBLIC (3-0-3)(F/S).** Investigates the rise, rule, and collapse of the Roman Republic from its founding as a small settlement on the Palatine Hill in 753 BCE through its development into a major metropolis that controlled a far reaching empire. Focus on a wide range of source material (literary, archaeological, epigraphic, numismatic) to cover topics such as the development of Roman government and laws, the changing character of the army, and the socio-cultural causes of social unrest during the late Republic. PREREQ: upper-division standing.

**HIST 306 BONFIRES AND BELLS: MEDIEVAL AND RENAISSANCE RELIGION AND CULTURE (3-0-3)(F/S).** Study of how ordinary people in turbulent eras of European history bound themselves together for protection, community, and salvation through religious and social customs rich in ritual, symbolism, and tradition. PREREQ: upper-division standing.

**HIST 308 THE AGE OF RENAISSANCE AND REFORMATION (3-0-3)(SU).** The connections between and the consequences of the Renaissance, the development of reformed religions, and the ideological clashes among Protestants and Catholics in European history between 1350-1650 are examined. PREREQ: upper-division standing.

**HIST 309 THE OLD REGIME AND THE FRENCH REVOLUTION (3-0-3)(F/S).** Cultural, economic, and social history of Europe in the

seventeenth and eighteenth centuries, focusing upon continuity and change in the daily life of peasants, causes of discontent, and French Revolution as a defining moment in European history. PREREQ: upper-division standing.

**HIST 310 FORCED TO FLEE: REFUGEES IN EUROPEAN HISTORY (3-0-3)(F/S).** An exploration of refugees and refugee movements in Europe through the Second World War. The refugee phenomenon will be considered broadly. The goal will be to understand the causes and consequences of refugee movements and to make refugees themselves the subject of inquiry, and to examine how historical treatments of refugee crises inform contemporary responses. PREREQ: upper-division standing.

**HIST 311 RELIGIONS OF THE ANCIENT MEDITERRANEAN (3-0-3)(F/S).** Examination of themes in the religious lives of Mediterranean cultures, including monotheism and polytheism, ritual and sacrifice, divination, cosmology, established and emerging religions. Focuses primarily on Greek and Roman religion, with some references to religions of Mesopotamia, Egypt, and northwestern Europe.

**HIST 319 EUROPE SINCE THE SECOND WORLD WAR (3-0-3)(F/S).** Exploration of impact of the war, the Cold War, rise and fall of communism, rise of European Union, and postwar culture. PREREQ: upper-division standing.

**HIST 320 GLOBAL DIASPORA: REFUGEES IN THE MODERN WORLD (3-0-3)(F/S).** An examination of forced migration since the Second World War. The course will consider the causes and consequences of refugee movements globally, focusing on Africa, Asia, and Latin America. Various international approaches to refugee crises will be explored. The course will be organized thematically and via case studies of particular refugee situations. PREREQ: upper-division standing.

**HIST 321 ENVIRONMENTAL HISTORY OF MODERN EAST ASIA (3-0-3)(F/S).** Explores East Asian history through the lens of nature. Focused primarily on China, Korea, and Japan, the course examines the major social and political developments beginning in the eighteenth century that transformed the region's human and natural environments. PREREQ: upper-division standing.

**HIST 322 SAINTS AND SINNERS: WOMEN IN CHRISTIANITY (3-0-3)(F/S).** Exploration of female participation in the Christian faith as lay persons, nuns, scholars, saints, missionaries and social activists, and Church attitudes toward women from antiquity to the present. PREREQ: upper-division standing.

**HIST 323 THE HISTORY OF MARRIAGE AND THE FAMILY IN EUROPE (3-0-3)(F/S).** Institution of the family in Europe from medieval to modern times, including sexuality and contraception, marriage and family structures, childbirth and the raising of children. PREREQ: upper-division standing.

**HIST 324 HISTORY OF EUROPEAN WOMEN (3-0-3)(F/S).** Explores evolving roles of European women as seen in the writings of contemporary women authors and in the analyses of modern social historians, examining the roles women created for themselves and the roles forced upon them by social norms. PREREQ: upper-division standing.

**HIST 325 HISTORY OF SOCIALISM (3-0-3)(F/S).** Survey of European egalitarian ideas and movements. Emphasis given to nineteenth and twentieth centuries. PREREQ: upper-division standing.

**HIST 326 HISTORY OF THE HOLOCAUST (3-0-3)(F/S).** Surveys the twentieth century European genocide, its causes and its consequences. Primarily focuses on Nazi efforts to eliminate Jews, but also examines the murder of millions of others deemed undesirable and the role of memory in understanding these events. PREREQ: upper-division standing.

**HIST 327 WORLD WAR I (3-0-3)(F/S).** Exploration of how the Great War began, war on all fronts, at sea, in the air and at home, and impact of the war on the 20th century. PREREQ: upper-division standing.

**HIST 329 HISTORY OF EUROPEAN FILM (3-0-3)(F/S).** Examination of the evolution of film from its beginnings in the mid 1890s. It explores film's

contribution to and critique of society, and how film narrative can depict political and social conditions of a particular place and time. Topics include technological innovations, cultural and social impacts of films, and aesthetic movements and styles. PREREQ: upper-division standing.

**HIST 330 HUMAN RIGHTS PAST AND PRESENT (3-0-3)(F/S).** Explores the development of human rights from visions and interrelated issues into formalized declarations, conventions, and law. Also traces factors, arguments, and activist strategies across time that have either advanced or obstructed human rights. Uses race in America as a major case study. Includes both collaborative and individualized learning opportunities. PREREQ: sophomore standing or PERM/INST.

**HIST 332 COLONIAL AMERICA (3-0-3)(F/S).** The colonizing activities of Spain, France, and England in North America, and how the different political, social, economic, and cultural policies of each resulted in different legacies throughout modern America are studied. Special attention is given to the American Revolutionary War. PREREQ: HIST 111 and upper-division standing.

**HIST 334 CIVIL WAR AND RECONSTRUCTION (3-0-3)(F/S).** A study of the origins of the conflict between the states, the encounter, and the problems of reunification. PREREQ: HIST 111 and upper-division standing.

**HIST 335 FRAMING THE UNITED STATES: 1776-1800 (3-0-3)(F/S).** Looks at pivotal founding moments in early United States history through the lens of constitutionalism. Special emphasis will be given to the causes and consequences of nation-state building by focusing on the plans of union and frameworks of government that members of the Revolutionary generation had drafted and debated during the 1770s and 1780s. PREREQ: upper-division standing.

**HIST 336 JACKSONIAN AMERICA: 1800-1850 (3-0-3)(F/S).** Explores several great transformations in United States history during the first half of the nineteenth century. Special emphasis will be given to such themes as the growth of democratic electoral politics, the onset of industrialization, the rise of the Old South's cotton kingdom, the upsurge of religious revivalism, the proliferation of social reform movements, and the acceleration of western settlement and territorial expansionism. PREREQ: upper-division standing.

**HIST 338 THE HISTORY OF U.S. -LATIN AMERICAN RELATIONS (3-0-3)(F/S).** In this course, students examine the history of the relationships between the peoples and countries of the Western Hemisphere. The course focuses on the key moments, events, and themes that gave rise to the current inter-American system. Some examples include: The War of 1898, the anti-imperialist movement of the 1920s, the Good Neighbor Policy, and Latin America's Cold War. PREREQ: upper-division standing.

**HIST 339 UNITED STATES MILITARY HISTORY 1775-PRESENT (3-0-3)(S).** Examines the development of the U.S. Armed Forces and their military effectiveness in war. Discusses U.S. strategic thought and national security as well as civil-military relations and the building of the professional officer corps. PREREQ: upper-division standing.

**HIST 340 THE KOREAN WAR (3-0-3)(F/S).** The Korean War (1950-1953) is among the most important conflicts in modern history. Traces the war's origins to late-nineteenth century imperialism, examines the military and political strategies and goals of the various nations involved, and explores the immediate and longer-term consequences of the war. PREREQ: upper-division standing.

**HIST 341 NATIVE AMERICAN HISTORY (3-0-3)(F/S).** The history of Native Americans, and the development of U.S. Indian policy from colonial antecedents to modern times with selected tribal histories are covered. Special attention is given to a comparison of U.S. and Canadian policies. PREREQ: upper-division standing.

**HIST 342 HISTORY OF THE AMERICAN WEST (3-0-3)(F/S).** Explores interactions in the North American West from the pre-contact era to the present. Topics include cultural exchange, ecological transformation, federal

## HISTORY

power, and how "The West" evolved as both a real and imagined place. HIST 111 recommended. PREREQ: upper-division standing.

**HIST 343 HISTORY AND MEMORY (3-0-3)(F/S).** Examination of the ways that the past is officially commemorated through public and private monuments, and also the blank spots in which significant events and communities have been excised or forgotten. Explores the ways in which the past shapes the present and the ways that the past is shaped by present perceptions using memoir, landscape, and personal narrative. Topics include War and Occupation, Genocide, Mass Rape, and Natural Disaster. PREREQ: upper-division standing.

**HIST 345 ANIMALS IN HISTORY (3-0-3)(F/S).** Humans, throughout time, have taken nonhuman animals seriously, as friends, foes, feasts, beasts, symbols, commodities, and more. This class will examine how humans and their environments have been shaped by interactions with other animals. It is comparative, spiraling through time and around the world to look at animals in relation to colonial and modern societies and in the oceans. PREREQ: upper-division standing.

**HIST 346 WOMEN AND GENDER IN THE U.S. WEST (3-0-3)(F/S).** Lives of women in the region west of the Mississippi from the early nineteenth to the early twenty-first century, dealing with how women of different classes and ethnic backgrounds interacted with one another and participated in the development of frontier culture and society. PREREQ: upper-division standing.

**HIST 347 AMERICA IN THE 1960s (3-0-3)(F/S).** Background, causes, character and impact of the "Sixties Era" on the United States and its citizens, focusing on the political, social and cultural movements of the era, the war in Vietnam, and debates over "freedom." PREREQ: upper-division standing.

**HIST 348 AMERICAN RELIGIOUS HISTORY (3-0-3)(F/S).** Relationship between religion and American culture from the colonial period to the present time, examining effects of politics, war, economics, gender, sexuality, and modernization have affected it. PREREQ: upper-division standing.

**HIST 349 HISTORY OF MULTICULTURAL AMERICA (3-0-3)(F/S).** An examination of America's multicultural history, with emphasis on how race and ethnicity have shaped American experience and identity. PREREQ: upper-division standing.

**HIST 350 UNITED STATES ECONOMIC HISTORY (3-0-3)(F/S).** Major factors in the economic growth and development of the United States from colonial times to the present. Particular emphasis is given to the interaction of economic factors and other aspects of American society. PREREQ: HIST 111 or HIST 112.

**HIST 351 NORTH AMERICAN ENVIRONMENTAL HISTORY (3-0-3)(F/S).** Examines historical issues concerning relationships between humans and nature in North America. Explores the role of nature in North American colonization and industrialization and the development of philosophies, public policies, and popular culture relating to the natural environment. PREREQ: upper-division standing.

**HIST 352 AMERICA SEES RED (3-0-3)(F/S).** Uses film, newspapers, and novels to explore the politics of fear and vilification with a focus on big-budget Hollywood cinema, 1915-1962. Topics include McCarthyism, film noir, the Cold War Western, and America's fear of the bomb. PREREQ: upper-division standing.

**HIST 353 THE MAKING OF THE MODERN AMERICAN CITY (3-0-3)(F/S).** Explores the origins and evolution of the American city by examining the role of urban areas in the country's economic, cultural, political, and environmental history from 1860 to the present. PREREQ: upper-division standing.

**HIST 354 THE PACIFIC WORLD (3-0-3)(F/S).** Analyzes ancient Pacific Polynesian exploration and colonization; Polynesian culture and society; 18th century European exploration and colonization; 19th-century missionaries, agribusiness, and imperialism; World War II, the environmental history of the Pacific Ocean; the Pacific World in popular 20th century Western culture; and

the modern Hawaiian cultural renaissance movement. PREREQ: HIST 220 or HIST 222.

**HIST 355 THE ATLANTIC WORLD (3-0-3)(F/S).** Between 1400 and 1800, civilizations on four continents intertwined across the broad expanse of the Atlantic Ocean. New identities arose from this cultural amalgamation, creating "The Atlantic World." Examines Atlantic civilizations in the century before contact and contextualizes societal and environmental changes wrought by exploration, trade, migrations (voluntary and forced), conquest, colonization, and resistance. PREREQ: HIST 220 or HIST 222.

**HIST 356 DEBATING CAPITALISM: THE HISTORY OF AMERICAN ECONOMIC THOUGHT (3-0-3)(F/S).** How does capitalism work? Does it work? Could it work better? Ultimately, what sort of economy should the United States be pursuing? This lecture and discussion course wrestles with how American thinkers have sought to answer these questions, and how their various ideologies and political programs shaped the development of the American economy.

**HIST 357 WHEN THE BOTTOM FALLS OUT: ECONOMIC CRISIS IN AMERICAN HISTORY (3-0-3)(F/S).** An interdisciplinary inquiry into the checkered history of economic crisis in America, this seminar spends each week analyzing the circumstances surrounding (and consequences arising from) thirteen of the most spectacular economic catastrophes in American history: the panics/ depressions/recessions of 1785, 1792, 1819, 1837, 1857, 1873, 1893, 1907, 1914, 1929, 1937, 1973, and 2008. PREREQ: upper-division standing.

**HIST 358 GLOBAL CAPITALISM (3-0-3)(F/S).** How and why did capitalism become the globe's hegemonic social and economic system? What is "Global Capitalism," and how does it shape our world? This lecture and discussion course prepares students to answer these questions, focusing in particular on the themes of (under-)development, (de-)industrialization, political economy, and globalization. PREREQ: upper-division standing.

**HIST 363 HISTORY OF MEXICO (3-0-3)(F/S).** Examination of social, cultural, political, environmental, and economic factors affecting the development of greater Mexico, territory from Central America to the American West, from indigenous civilizations through the modern era. Focus on individual contributions to history and topics include conquest, colonialism, revolution, modernization, immigration, and neoliberal transformations. PREREQ: upper-division standing.

**HIST 365 BORDERS AND BORDERLANDS IN LATIN AMERICA (3-0-3)(F/S).** An examination of frontier and borderland territories from the colonial to present times with an emphasis on the intellectual, practical, and historical significance of marginal territories for the development of national identities and cultures. Focus may include the Caribbean, Patagonia, Amazonia, and the US-Mexico region.

**HIST 366 THE CARIBBEAN IN THE AMERICAN CENTURY (3-0-3)(F/S).** Offers an opportunity to assess the role of the United States and its impact on the Caribbean over the course of the twentieth century, with a particular focus on the Hispanic Caribbean. This is not a traditional diplomatic history course. Instead, it will allow students to explore how the U.S. conception of an "American Lake" shaped the racial, national, and political boundaries of the modern Caribbean. PREREQ: upper-division standing.

**HIST 367 MODERN LATIN AMERICA (3-0-3)(F/S).** An examination of Latin American in the aftermath of the wars of independence and the struggles for political and economic stability during the nineteenth century. Particular emphasis placed upon twentieth century socioeconomic change and the role of the United States in that process. HIST 131 recommended. PREREQ: upper division standing.

**HIST 368 THE ISLAMIC MIDDLE EAST (3-0-3)(F/S).** A history of the people, institutions, and culture of the Near and Middle East from Muhammad to the decline of the Ottoman and Safavid empires in the eighteenth century. PREREQ: upper-division standing.

**HIST 369 THE MODERN MIDDLE EAST (3-0-3)(F/S).** A history of the Near and Middle East during the nineteenth and twentieth centuries, the decline of the Ottoman empire, the breakdown of cosmopolitan Islam, and the rise of Turkish, Iranian, Arab, and Israeli nationalism. HIST 102 recommended. PREREQ: upper-division standing.

**HIST 370 OTTOMAN HISTORY (3-0-3)(F/S).** A history of the Ottoman Empire from the rise of the Ottomans in the 1300s through the conquest of Constantinople up to the creation of the modern Turkish Republic in 1923.

**HIST 372 THE HISTORY OF MODERN SOUTHEAST ASIA (3-0-3)(F/S).** Examines Southeast Asian history from the middle of the nineteenth century to the present. The profound outside influences and the strength of the Southeast Asian indigenous world views are explored throughout the course. PREREQ: upper-division standing.

**HIST 373 THE HISTORY OF MODERN CHINA (3-0-3)(F).** China's transition from the Qing Dynasty (1912) to the Nationalist period (1928-1949) will introduce modern China. The emphasis will be on post World War II China and China's growth in the post-Mao Zedong era. PREREQ: upper-division standing.

**HIST 375 RELIGION AND POWER IN WORLD HISTORY (3-0-3)(F/S).** An exploration of religion's role in building and maintaining civilizations, focusing on the philosophical foundations, historical development, and socio-political ramifications—especially for the present—of religious traditions throughout world history. Emphasis will be placed on active traditions, including Buddhism, Christianity, Hinduism, Islam, and Judaism. PREREQ: upper-division standing.

**HIST 376 GLOBAL ENVIRONMENTAL HISTORY (3-0-3)(F/S).** Examines the complex history of the relationships between humans and nature over time and space. This course is thematic, rather than chronological in scope, and will cover issues such as agriculture, biodiversity, climate change, industrialization, and war. PREREQ: upper-division standing.

**HIST 377 WORLD WAR II (3-0-3)(F/S).** Examines the war from the standpoint of political goals and military strategy from its origins to the final cataclysmic events in 1945. Discusses tactics, technology, the Holocaust, and the various home fronts. PREREQ: upper-division standing.

**HIST 378 THE MAKING OF MODERN JAPAN (3-0-3)(F, S, SU).** Examines the social/political/artistic/religious/economic/military seeds of Modern Japan that were: planted during Tokugawa Japan (1600-1868); sprouted during Meiji Japan (1868-1912); flowered in Taisho Japan (1912-1926); and bore fruit during Showa Japan (1926-1989). PREREQ: upper-division standing.

**HIST 380 THEMES IN EUROPEAN HISTORY (3-0-3)(F, S, SU).** Intensive studies of a particular period, topic, or problem in European history. Reading and discussion format. Consult current class schedule for specific selections offered each term. May be repeated for credit. PREREQ: upper-division standing.

**HIST 381 THEMES IN THE HISTORY OF THE AMERICAS (3-0-3)(F, S, SU).** Intensive studies of a particular region, period, topic, or problem in the history of the Americas. Reading and discussion format. Consult current class schedule for specific selections offered each term. May be repeated for credit. PREREQ: upper-division standing.

**HIST 382 THEMES IN NON-WESTERN HISTORY (3-0-3)(F, S, SU).** Intensive studies of a particular region, period, topic, or problem in the history of Africa, Asia, or the Middle East. Reading and discussion format. Consult current class schedule for specific selections offered each term. May be repeated for credit. PREREQ: upper-division standing.

**HIST 383 THEMES IN ENVIRONMENTAL HISTORY (3-0-3)(F/S).** Intensive studies of a particular topic or problem in Environmental History. Reading and discussion format. Consult current class schedule for specific selections offered each term. Course may be repeated for credit. PREREQ: upper-division standing.

**HIST 386 DIGGING UP THE PAST: ARCHAEOLOGY AND HISTORY (3-0-3)(F/S).** Introduction to the use of archaeology in the study of history, including various types of archaeological evidence, the main methodological techniques of the field, and the current theoretical ideas driving the field of archaeology. Topics include the use of archaeology in social, religious, and environmental history over a wide geographical and chronological range.

**HIST 387 HISTORY OF THE POLICE IN EUROPE AND AMERICA (3-0-3)(F/S).** Examination of the historical development of police forces from the late 18th century to the present day with particular reference to Europe and America. The social and political context of modern policing will be explored, together with police practices. Topics include the historiography of policing, police and work culture, and the politics of police.

**HIST 388 HISTORY OF WEAPONS OF MASS DESTRUCTION (3-0-3)(F/S).** Examines the modern history of chemical, biological, and nuclear weapons. Discussion includes both planned and actual use on the battlefield as well as the strategic planning for global thermonuclear war. Additional topics include Civil Defense and Arms Control treaties. PREREQ: upper-division standing.

**HIST 389 ENVIRONMENTAL HISTORY OF MODERN WAR (3-0-3)(F/S).** Examines the history of military activity from the mid-nineteenth century to the present with particular attention to the interplay between war and the natural environment. Focuses on the development of modern technologies and military strategies, the rise of environmental science and politics, and the global character of modern warfare. PREREQ: upper-division standing.

**HIST 390 UNITED STATES IMMIGRATION HISTORY (3-0-3)(F/S).** What does it mean to be an American? Explores how the United States has addressed this question from the first permanent English settlers to contemporary migrant caravans. Comparing and contrasting national policy, group dynamics and individual narratives provides a richer understanding of the past. PREREQ: upper-division standing.

**HIST 498 SENIOR RESEARCH SEMINAR (3-0-3)(F, S)(FF).** Capstone course devoted to the preparation of a research paper under the guidance of history faculty. PREREQ: HIST 220 or HIST 222 and senior standing.

## Honors College

Honors Building  
(208) 426-1122 (phone)  
(208) 426-1247 (fax)  
<https://www.boisestate.edu/honors/> (website)

*Dean:* Andrew Finstuen. *Associate Dean:* Shelton Woods. *Associate Director:* Annal Frenz. *Assistant Director:* Christopher Hyer. *Associate Director:* Emily Jones. *Business Operations Supervisor:* Ali Johnson. *Development Director:* Argia Beristain. *Academic and Fellowships Advisor:* Kate Heuschmann. *Academic Advisor:* Brandi Venable.

### Program Statement

The mission of the Honors College at Boise State University is to provide an academically transformative and intellectually challenging program for motivated and talented students. With the goal of involving honors students and faculty in a community of scholars, the college fosters a climate that develops rigorous scholarship and challenges students to achieve their full potential as outstanding scholars and outstanding citizens. For the campus as a whole, the Honors College seeks to focus attention on excellence in undergraduate education while enhancing the overall intellectual life of the university.

### Admission Requirements

The Honors College welcomes applications from students representing all academic disciplines offered at Boise State. The Honors College is actively committed to diversity and inclusivity, a stance in alignment with the university's statement of shared values. All applicants must submit an application essay, and a résumé demonstrating a clear record of curricular experiences, activities, and achievements. Additionally, for students coming directly from high school, admission to the college includes a recommended GPA of 3.5 or higher, and ACT and/or SAT scores of 26 and 1230 respectively. A cumulative GPA of at least 3.5 for a minimum of 15 college credits is required for continuing students, transfers, and students whose admission to Boise State has not been based upon regular high school graduation and ACT or SAT scores.

### Retention Requirements

A cumulative GPA of at least 3.25 is required for retention in the Honors College. Any student who falls below the required minimum GPA for two consecutive semesters will be withdrawn from the Honors College. An Honors student who receives below a C in an Honors course is subject to dismissal from the program. Students who complete no honors work for two consecutive semesters also will be withdrawn unless they can demonstrate, to the satisfaction of the dean, continuing progress toward the completion of honors graduation requirements. Continuance in Honors requires compliance with the conduct and participation commitments outlined in the College handbook. Rare exceptions to admission and retention requirements may be granted by the dean upon written petition by the student, justifying the exception on the basis of other evidence of academic potential. Honors students must annually meet with the head of their house. There is also a nominal program fee requirement for honors students. To apply and for additional information, visit the Honors College website: <https://www.boisestate.edu/honors/>.

### Other Features

Students may apply to live in the honors residence hall dedicated to honors students, where they can both study and socialize together. Honors students are not required to live in the honors residence hall. Beyond the residence hall, the Honors College enables all its students to become actively engaged in the academic, social, multi-cultural, leadership, and service opportunities sponsored either by the college or the Honors Student Association. Additionally, the college encourages and helps students to broaden their knowledge and experience base by participating in interdisciplinary courses, internships and study abroad.

### Scholarships

The College awards scholarships to incoming, first-year, and transfer students based on academic merit and co-curricular activities. The College also awards scholarships to continuing students based on academic merit and participation in the Honors College. The Honors College will also assist students in applying for outside scholarships such as the Fulbright, Rhodes, Goldwater, Truman, and Marshall.

### Honors Requirements

| Honors College Graduate Track  |         |
|--|---------|
| Course Number and Title  | Credits |
| Honors Flex Credits  | 9*      |
| UF 200 Foundations of Ethics and Diversity—honors section  | 3*      |
| HONORS 198 Honors Seminar  | 1       |
| HONORS 390 Crafting Professional Narratives  | 1       |
| HONORS 392 Honors Colloquia  | 6       |
| HONORS 498 Seminar   | 1       |
| Total  | 21      |
| *12 credits of customizable coursework including Honors sections of University Foundations classes. Students fulfill both Honors requirements and the requirements of their major at the same time. Core-certified students have a reduced Honors course load. |         |

### Course Offerings

#### HONORS—Honors

Honors courses are designed to be thorough, rigorous, and, in some cases, unique offerings specially designed for honors students. In many honors courses a seminar format is used to encourage critical, creative thinking in a more personalized atmosphere.

All honors courses are designated as honors on a student's transcript, so graduate schools and employers can easily determine the extent of each student's academic involvement in the program.

The following courses are offered regularly.

**HONORS 198, 298, 398, 498 HONORS SEMINAR (1-0-1)(F/S).** Group discussion of issues built around a specific theme/s. Because themes change from semester to semester, seminar may be repeated.

**HONORS 290 LEADERSHIP IN HONORS (2-0-2)(F).** Trains Peer Mentors in applied leadership and mentoring. PREREQ: Successful application to the Honors Peer Mentor Program.

**HONORS 390 CRAFTING PROFESSIONAL NARRATIVES (1-0-1)(F, S).** Develops students' writing and speaking skills in relation to applications for graduate school or employment. This professional focus also challenges students to carefully consider their pathway through college and their steps after graduation.

**HONORS 392 HONORS COLLOQUIUM (3-0-3)(F/S).** Interdisciplinary studies of selected topics. Because the topics change from semester to semester, colloquium may be repeated. Consult online class search for specific topics offered each semester. May be repeated for credit.

## Industrial Engineering Minor

College of Business and Economics | College of Engineering

Micron Engineering Building, Room 403H  
(208) 426-5719 (phone)  
amoll@boisestate.edu (email)

Coordinator: Amy Moll Advisors: Donna Llewellyn, Jim Kroes, Don Plumlee

### Program Offered

- Minor in Industrial Engineering

### Program Statement

The industrial engineering minor is a interdisciplinary program designed to: 1) provide training for engineering students on the design, optimization, and management of complex manufacturing and supply chain systems; 2) prepare engineering students with the tools needed to apply engineering concepts to issues faced by production, service, and supply chain organizations; 3) develop the analytical and managerial skills of engineering students in preparation for careers in industry.

| Industrial Engineering Minor   |           |
|--|-----------|
| Course Number and Title  | Credits   |
| CMGT 417 Project Scheduling or<br>SCM 435 Project Management   | 3         |
| ENGR 180 Communication in Design Thinking  | 3         |
| ENGR 360 Engineering Economy or<br>ENGR 425 The Business of Technology   | 3         |
| MATH 360 Engineering Statistics or<br>MATH 361 Probability and Statistics I  | 3         |
| SCM 301 Principles of Supply Chain Management  | 3         |
| SCM 380 Quality Management and LEAN Process Improvement  | 3         |
| One (1) of the following engineering electives:<br>ENGR 460 Manufacturing Process Control & Improvement<br>ME 464 Production Engineering<br>ME 478 Design and Analysis of Mechatronic Systems<br>ME 486 Human Factors Design<br>ME 488 Design for Manufacture and Assembly<br>MSE 415 Materials Processing | 3         |
| One (1) of the following supply chain management electives:<br>SCM 366 Supply Chain Analytics<br>SCM 410 Logistics<br>SCM 420 Creating Sustainable Goods and Services  | 3         |
| <b>Total</b>   | <b>24</b> |
| All courses used toward the Industrial Engineering minor must have a grade of C- or better.<br>SCM courses older than 5 years may not apply toward minor requirements.   |           |

## Human Rights Certificate

School of Public Service

### Program Offered

- Certificate in Human Rights

### Program Statement

The Certificate in Human Rights combines an expansive human rights context with specific skills to help students integrate human rights elements and advocacy into their specialized majors, vocations, and/or civic engagement. It includes the history and interconnected elements of human rights as well as practical skills, such as advocacy-related approaches, communication, mobilization, collaboration, team-building, and navigation of power systems. The capstone experience engages students in leading local advocacy campaigns. This certificate aims to add value to academic specializations in particular social justice issues.

| Human Rights Certificate   |           |
|--|-----------|
| Course Number and Title  | Credits   |
| Introduction to Human Rights<br>HIST 330 Human Rights Past and Present   | 3         |
| Advocacy-related communication and collaboration skills<br>Choose one (1) of the following:<br>COMM 231 Public Speaking<br>COMM 351 Intercultural Communication<br>COMM 356 Communication in the Small Group<br>COMM 371 Communication, Gender, and Difference<br>CONFLICT/COMM/SOC 390 Conflict Management<br>COMM 435 Collaboration and Facilitation<br>COMM 484 Studies in Rhetoric and Public Advocacy<br>CONFLICT 401 Negotiation<br>CONFLICT 402 Mediation<br>POLS 419 Political Communication<br>SPS 301 Engagement and Empathy in Public Service<br><br>OR seek approval to combine one-to-three (1-3) credit skills-based courses and/or experiential learning workshops related to advocacy-based communication and collaboration to equal 3 credits (contact director of Marilyn Shuler Human Rights Initiative to request course approval) | 3         |
| Navigating Power within Systems and Institutions<br>Choose one (1) of the following:<br>BUS 441 Business in Society: Ethics, Responsibility and Sustainability<br>HIST 268 Working in America: Class, Labor and Inequality<br>HIST 349 History of Multicultural America<br>HIST 356 Debating Capitalism<br>POLS 414 Comparative State Politics<br>POLS 447 Civil Liberties<br>POLS 449 Law, Politics and Society<br>PSYC 438 Community Psychology<br>SOC 230 Introduction to Ethnic Studies<br>SOC 421 Social Inequality<br>URBAN 390 Urban Inequality   | 3         |
| Capstone experience<br>SPS 331 Advocacy in Action  | 3         |
| <b>Total</b>   | <b>12</b> |
| The certificate will be awarded following completion of an associate or baccalaureate degree.  |           |

# Department of Information Technology and Supply Chain Management

College of Business and Economics

Micron Business and Economics Building, Room 3248  
(208) 426-1181 (phone)  
itscm@boisestate.edu (email)  
<https://www.boisestate.edu/cobe-itscm/> (website)

*Chair and Associate Professor:* Karen Corral. *Professors:* Fry, Gattiker, Kroes.  
*Associate Professors:* Chenoweth, Terpend, Twitchell. *Clinical Associate Professor:* Scott. *Assistant Professors:* Castel, Fuller, Pentland, Rush. *Lecturers:* Harless, Lee, Smith, Wee.

## Degrees Offered

- Bachelor of Business Administration in Information Technology Management
- Bachelor of Business Administration in Supply Chain Management
- Bachelor of Science in Business and Economic Analytics
- Minor in Information Technology Management
- Minor in Supply Chain Management
- Certificate in Business Analytics (online)

## Department Statement

The Information Technology Management (ITM) and Supply Chain Management (SCM) programs prepare students for professional careers by developing key management skills including problem solving, critical thinking, analysis and interpretation of information, teamwork and communication.

The ITM and SCM programs teach a variety of technical concepts that require, or are supported by, specialized software. If you are considering the purchase of a computer or laptop, the ITM/SCM department offers some recommendations for your academic computing technology. Please visit the IT-SCM department website for more information: <https://www.boisestate.edu/cobe-itscm/>.

## Business and Economic Analytics

The Business and Economic Analytics (BEA) degree program provides its graduates with the skill set necessary to turn Big Data into actionable information that supports strategic business decision making. This unique degree program combines core business skills, data modeling, programming, statistical analysis and econometrics.

The curriculum includes courses from the College of Business and Economics along with offerings from the Department of Mathematics and from the Department of Computer Science. Business concepts are developed and integrated across a variety of disciplines using statistical analysis to identify and describe issues and opportunities. Graduates of the program are taught to view information as data scientists in order to extract data, formulate models and demonstrate the business value of the results. Business and data analysts make use of the skills to design and implement database structures, script computer language and present the results using visualizations of multidimensional data.

## Information Technology Management

Information Technology Management (ITM) professionals balance human, technical, and organizational components to drive organizational productivity, efficiency, and profitability. The ITM major prepares students to design, implement, and integrate information systems and technology into organizations. ITM professionals require solid business and management knowledge and skills to complement technical skills. Such a balance between technical and management skills differentiates students as an ITM major from other technical majors such as engineering or computer science. The ITM program features hands-on, real-world, experiential learning in courses and self-directed projects with local organizations. Employers have a high demand

for qualified ITM graduates and ITM careers include a wide variety of options, including business analysis, application development, systems analysis and design, database administration, information security, networking, and technology management.

## Supply Chain Management

Supply Chain Management (SCM), which is the science of making things (goods and services) and delivering them to customers, is one of the fastest growing business management disciplines in terms of job opportunities and employee salaries. The career responsibilities of supply chain managers cross a broad spectrum of activities, including the purchasing of input materials and services from suppliers, the transportation and manufacturing of goods, inventory control and service operations management. The SCM major prepares students to manage these operations as well as supporting functions, such as project management, quantitative modeling, process improvement and sustainability. The SCM program emphasizes real-world experiences and applications through interactions with practitioners from local businesses and government agencies. Additionally, students are able to add depth to their study through a variety of internship opportunities.

## Admission Requirements

Students interested in pursuing a degree in the College of Business and Economics (COBE), except for BS in Business and Economic Analytics, must be a pre-business major and complete the COBE admission requirements prior to the declaration of a major in a degree completion program. Admission to COBE is required before a student may enroll in most upper-division business and economics courses.

For details on the COBE admission requirements, see Pre-Business on page 268.

## Degree Requirements

| Business and Economic Analytics<br>Bachelor of Science  |         |
|---|---------|
| Course Number and Title   | Credits |
| University Foundations requirements indicated in bold. See page 48 for details and lists of approved courses. |         |
| <b>UF 100</b> Foundations of Intellectual Life  | 3       |
| <b>UF 200</b> Foundations of Ethics and Diversity   | 3       |
| <b>FW ENGL 101</b> Writing and Rhetoric I   | 3       |
| <b>FW ENGL 102</b> Writing and Rhetoric II  | 3       |
| <b>FC</b> Foundations of Oral Communication   | 3       |
| <b>FM MATH 170</b> Calculus I   | 4       |
| <b>FN</b> Foundations of Natural, Physical, & Applied Sciences course with lab                                | 4       |
| <b>FN</b> Foundations of Natural, Physical, & Applied Sciences course in a second field                       | 3-4     |
| <b>FA</b> Foundations of Arts course  | 3       |
| <b>FH</b> Foundations of Humanities course  | 3-4     |
| <b>FS ECON 201</b> Principles of Macroeconomics   | 3       |
| <b>FS</b> Foundations of Social Sciences course in a second field   | 3       |
| ACCT 205 Introduction to Financial Accounting   | 3       |
| CS 133 Foundations of Data Science  | 3       |
| ECON 202 Principles of Microeconomics   | 3       |
| ECON 341 Quantitative Methods in Economics  | 3       |
| ECON 342 Econometrics   | 4       |
| ECON 401 Research Project Seminar   | 2       |
| <b>FF ECON 402</b> Capstone Seminar   | 1       |



INFORMATION TECHNOLOGY AND SUPPLY CHAIN MANAGEMENT

|  |       |
|--|-------|
| CoBE Computer Placement Exam or<br>ITM 105 Spreadsheet Topics and<br>ITM 106 Database Topics   | 0-3   |
| ITM 310 Business Intelligence  | 3     |
| ITM 315 Database Systems   | 3     |
| ITM 330 Predictive Analytics   | 3     |
| ITM 340 Big Data and Web Analytics   | 3     |
| ITM 415 Advanced Database  | 3     |
| ITM/SCM 435 Project Management   | 3     |
| MATH 175 Calculus II   | 4     |
| MATH 189 Discrete Mathematics  | 4     |
| MATH 275 Multivariable and Vector Calculus   | 4     |
| MATH 301 Introduction to Linear Algebra  | 3     |
| MATH 361 Probability and Statistics I  | 3     |
| Choose one of the following five tracks:   |       |
| Data Science<br>CS 233 Essentials of Data Science AND<br>CS 334 Algorithms of Machine Learning AND<br>CS 411 Databases for Data Scientists |       |
| Economics<br>ECON 303 Intermediate Microeconomics AND<br>ECON 465 Managerial Economics and Strategy  |       |
| Health Informatics<br>HIIM 320 Health Data Management AND<br>HIIM 322 Health Data in the Revenue Cycle                                     | 6-9   |
| Marketing<br>MKTG 301 Principles of Marketing AND<br>MKTG 315 Marketing Insights   |       |
| Supply Chain Management<br>SCM 301 Principles of Supply Chain Management AND<br>SCM 366 Supply Chain Analytics                             |       |
| Electives to total 120   | 13-21 |
| Total  | 120   |

|   |      |
|---|------|
| BUS 101 Business for the New Generation   | 3    |
| BUS 202 The Legal Environment of Business   | 3    |
| BUS 301 Leadership Skills   | 3    |
| FF BUS 450 Business Policies  | 3    |
| BUSCOM 201 Global Business Communication  | 3    |
| BUSSTAT 207 Introduction to Business Analytics or<br>MATH 254 Introduction to Statistics  | 3    |
| BUSSTAT 208 Business Analytics  | 3    |
| ECON 202 Principles of Microeconomics   | 3    |
| FINAN 303 Principles of Finance   | 3    |
| CoBE Computer Placement Exam or<br>ITM 105 Spreadsheet Topics and<br>ITM 106 Database Topics  | 0-3  |
| ITM 225 Introduction to Programming   | 3    |
| ITM 305 Information Technology and Network Essentials   | 3    |
| ITM 310 Business Intelligence   | 3    |
| ITM 315 Database Systems  | 3    |
| ITM 320 Systems Planning and Analysis   | 3    |
| ITM 325 Web Application Development I   | 3    |
| ITM/SCM 435 Project Management  | 3    |
| ITM 455 Information Security  | 3    |
| MKTG 301 Principles of Marketing  | 3    |
| SCM 301 Principles of Supply Chain Management   | 3    |
| Choose three (3) major electives:<br>ITM 330, ITM 340, ITM 370, ITM 415, ITM 493, ITM 496,<br>ITM 497, SCM 366, SCM 380, SCM 410, SCM 416, ITM 460                                  | 9    |
| Electives to total 120  | 5-10 |
| Total   | 120  |
| No more than 3 credits of ITM 493 Internship may be used toward ITM degree requirements. All internships are pass/fail credit.  |      |
| All courses used toward the Information Technology Management major must have a grade of C- or better.  |      |
| ITM or SCM courses older than 5 years may not apply toward major requirements.  |      |
| Must demonstrate proficiency in mathematics by completing the Boise State math placement exam and/or completing the appropriate prerequisite courses before enrollment in MATH 160. |      |
| All ITM majors must apply for COBE Admission.   |      |

| Information Technology Management<br>Bachelor of Business Administration                                      |         |
|---|---------|
| Course Number and Title   | Credits |
| University Foundations requirements indicated in bold. See page 48 for details and lists of approved courses. |         |
| <b>UF 100</b> Foundations of Intellectual Life  | 3       |
| <b>UF 200</b> Foundations of Ethics and Diversity   | 3       |
| <b>FW ENGL 101</b> Writing and Rhetoric I   | 3       |
| <b>FW ENGL 102</b> Writing and Rhetoric II  | 3       |
| <b>FC</b> Foundations of Oral Communication   | 3       |
| <b>FM MATH 160</b> Survey of Calculus or<br><b>FM MATH 170</b> Calculus I                                     | 4       |
| <b>FN</b> Foundations of Natural, Physical, & Applied Sciences course with lab                                | 4       |
| <b>FN</b> Foundations of Natural, Physical, & Applied Sciences course in a second field                       | 3-4     |
| <b>FA</b> Foundations of Arts course  | 3       |
| <b>FH</b> Foundations of Humanities course  | 3-4     |
| <b>FS ECON 201</b> Principles of Macroeconomics   | 3       |
| <b>FS</b> Foundations of Social Sciences course in a second field   | 3       |
| ACCT 205 Introduction to Financial Accounting   | 3       |
| ACCT 206 Introduction to Managerial Accounting  | 3       |

| Supply Chain Management<br>Bachelor of Business Administration  |         |
|---|---------|
| Course Number and Title   | Credits |
| University Foundations requirements indicated in bold. See page 48 for details and lists of approved courses. |         |
| <b>UF 100</b> Foundations of Intellectual Life  | 3       |
| <b>UF 200</b> Foundations of Ethics and Diversity   | 3       |
| <b>FW ENGL 101</b> Writing and Rhetoric I   | 3       |
| <b>FW ENGL 102</b> Writing and Rhetoric II  | 3       |
| <b>FC</b> Foundations of Oral Communication   | 3       |
| <b>FM MATH 160</b> Survey of Calculus or<br><b>FM MATH 170</b> Calculus I                                     | 4       |
| <b>FN</b> Foundations of Natural, Physical, & Applied Sciences course with lab                                | 4       |
| <b>FN</b> Foundations of Natural, Physical, & Applied Sciences course in a second field                       | 3-4     |
| <b>FA</b> Foundations of Arts course  | 3       |
| <b>FH</b> Foundations of Humanities course  | 3-4     |
| <b>FS ECON 201</b> Principles of Macroeconomics   | 3       |

## INFORMATION TECHNOLOGY AND SUPPLY CHAIN MANAGEMENT

|   |            |
|---|------------|
| <b>FS</b> Foundations of Social Sciences course in a second field   | 3          |
| ACCT 205 Introduction to Financial Accounting   | 3          |
| ACCT 206 Introduction to Managerial Accounting  | 3          |
| BUS 101 Business for the New Generation   | 3          |
| BUS 202 The Legal Environment of Business   | 3          |
| BUS 301 Leadership Skills   | 3          |
| <b>FF</b> BUS 450 Business Policies   | 3          |
| BUSCOM 201 Global Business Communication  | 3          |
| BUSSTAT 207 Introduction to Business Analytics or<br>MATH 254 Introduction to Statistics  | 3          |
| BUSSTAT 208 Business Analytics  | 3          |
| ECON 202 Principles of Microeconomics   | 3          |
| FINAN 303 Principles of Finance   | 3          |
| CoBE Computer Placement Exam or<br>ITM 105 Spreadsheet Topics and<br>ITM 106 Database Topics  | 0-3        |
| ITM 310 Business Intelligence   | 3          |
| ITM 315 Database Systems  | 3          |
| MKTG 301 Principles of Marketing  | 3          |
| SCM 301 Principles of Supply Chain Management   | 3          |
| SCM 366 Supply Chain Analytics  | 3          |
| SCM 380 Quality Management and LEAN Process<br>Improvement  | 3          |
| SCM 410 Logistics   | 3          |
| SCM 416 Procurement and Supply Chain Integration  | 3          |
| SCM/ITM 435 Project Management  | 3          |
| Two (2) of the following Supply Chain Management<br>electives:<br>ACCT 314, BUS 302, BUS 334, BUS 441, ECON 333,<br>INTBUS 443, INTBUS 445, ITM 320, ITM 330, ITM 415,<br>MKTG 420, MKTG 430, SCM 420, SCM 493, SCM 497 | 6          |
| Electives to total 120  | 11-16      |
| <b>Total</b>  | <b>120</b> |
| The department recommends that each supply chain management major take SCM 493 Internship during the student's junior year for a maximum of 3 credits of electives.   |            |
| All courses used toward the Supply Chain Management degree must have a grade of C- or better.   |            |
| Must demonstrate proficiency in mathematics by completing the Boise State math placement exam and/or completing the appropriate prerequisite courses before enrollment in MATH 160.                                     |            |
| All SCM majors must apply for COBE admission.   |            |

Students pursuing a BBA degree from the College of Business and Economics other than Information Technology Management may earn a minor in ITM by satisfying the requirements listed below (in addition to the requirements of their major).

Students pursuing a BBA degree from the College of Business and Economics other than Supply Chain Management may earn a minor in SCM by satisfying the requirements listed below (in addition to the requirements of their major).

Students majoring in a discipline outside of business seeking a minor in ITM or SCM must apply for and be admitted to the College of Business and Economics. Students seeking a minor in industrial engineering must have a major in the College of Engineering.

All course prerequisites in the minors are required and will be enforced.

| Information Technology Management Minor   |                |
|---|----------------|
| <i>Course Number and Title</i>  | <i>Credits</i> |
| CoBE Computer Placement Exam or<br>ITM 105 Spreadsheet Topics and<br>ITM 106 Database Topics  | 0-3            |
| ITM 225 Introduction to Programming   | 3              |
| ITM 310 Business Intelligence   | 3              |
| ITM 315 Database Systems  | 3              |
| Choose two (2) of the following course options:<br>ITM 320 Systems Planning and Analysis<br>ITM 325 Web Application Development<br>ITM 330 Predictive Analytics<br>ITM 340 Big Data and Web Analytics<br>ITM 370 Mobile Application Development<br>ITM/SCM 435 Project Management or<br>HLTH 420 Strategic Planning & Project Management<br>ITM 455 Information Security<br>ITM 460 Cloud Computing | 6              |
| <b>Total</b>  | <b>15-18</b>   |
| All course prerequisites are enforced for students pursuing the ITM minor.<br>All courses used toward the ITM minor must have a grade of C- or better.<br>ITM, CIS, or NTCOMM courses older than 5 years may not apply toward minor requirements.<br>All ITM minors must apply for COBE except for GIMM and HIIM majors.  |                |

| Supply Chain Management Minor   |                |
|---|----------------|
| <i>Course Number and Title</i>  | <i>Credits</i> |
| SCM 301 Principles of Supply Chain Management   | 3              |
| Three (3) of the following:<br>SCM 366* Supply Chain Analytics<br>SCM 380* Quality Management and Lean Process<br>Improvement<br>SCM 410* Logistics<br>SCM 416* Procurement and Supply Chain Integration<br>SCM*/ITM 435 Project Management | 9              |
| Two (2) of the following electives:<br>ACCT 314, BUS 302, BUS 334, ECON 333, INTBUS 230,<br>INTBUS 443, INTBUS 445, ITM 330, ITM 415, MKTG 420,<br>MKTG 430, SCM 420, SCM 493   | 6              |
| <b>Total</b>  | <b>18</b>      |
| *SCM 301 is a prerequisite.<br>Admission to COBE required.<br>All courses used toward the SCM minor must have a grade of C- or better.<br>SCM courses older than 5 years may not apply toward minor requirements.                           |                |

| Business Analytics (Online) Certificate  |                |
|--|----------------|
| <i>Course Number and Title</i>   | <i>Credits</i> |
| CoBE Computer Placement Exam or<br>ITM 105 Spreadsheet Topics and<br>ITM 106 Database Topics   | 0-3            |
| BUSSTAT 207 Introduction to Business Analytics or<br>MATH 254 Introduction to Statistics or<br>MATH 360 Engineering Statistics or<br>MATH 361 Probability & Statistics I | 3              |
| ITM 310 Business Intelligence  | 3              |
| ITM 315 Database Systems   | 3              |
| ITM 330 Predictive Analytics   | 3              |
| Choose one (1) of the following:<br>ACCT 350, ECON 342, FINAN 440, ITM 340, ITM 415,<br>MKTG 315   | 3              |
| <b>Total</b>   | <b>15-18</b>   |
| This certificate will be awarded following completion of a baccalaureate degree.<br>Business and Economic Analytics majors are not eligible for the certificate.         |                |

## Course Offerings

**Upper-division courses in the Department of Information Technology and Supply Chain Management (those with a course numbered 300 or higher) provide higher-level instruction to students who have the skills necessary to perform at this level.** In addition to fulfilling the specific prerequisites listed and meeting the general university requirements for junior standing, every student admitted to a course is expected: to communicate clearly and correctly so that assignments such as term papers and presentations can be completed effectively, to organize and solve problems using the techniques of intermediate algebra, to use a microcomputer for simple word processing and spreadsheet applications. **The prerequisite “No D Rule” is strongly enforced for all BUSSTAT, ITM, and SCM courses and prerequisites.**

### BUSSTAT—Business Statistics

#### Lower Division

**BUSSTAT 207 INTRODUCTION TO BUSINESS ANALYTICS (3-0-3)(F, S, SU).** Provides an introduction to business analytics through working knowledge of descriptive and inferential statistics concepts such as discrete and continuous probability distributions, sampling distributions, confidence interval estimates, and hypothesis testing. PREREQ: MATH 143 or MATH 149 or MATH 160 or MATH 170, and ITM 105 or successful completion of the COBE Computer Placement Exam for ITM 105.

**BUSSTAT 208 BUSINESS ANALYTICS (3-0-3)(F, S, SU).** Provides analytic methods applied to case studies utilized by operations, marketing, finance, strategic planning, and other functions relying on ANOVA, simple linear and multiple regression, chi-square, and other business analytics methods to address business problems. PREREQ: BUSSTAT 207 or MATH 254, MATH 143 or MATH 149 or MATH 160 or MATH 170, and ITM 105 or successful completion of the COBE Computer Placement Exam for ITM 105.

### ITM—Information Technology Management

#### Lower Division

**ITM 104 OPERATING SYSTEMS AND WORD PROCESSING TOPICS (1-1-1)(F, S, SU).** Introduces computer and technology concepts and develops skills using current home/office and Internet productivity software. Basic functions of the operating system, basic to intermediate word-processing skills, introduction to hardware, software, Internet and networking concepts for use in the workplace, educational settings, and the home.

**ITM 105 SPREADSHEET TOPICS (1-1-2)(F, S, SU).** Develops basic to intermediate spreadsheet skills using Excel and then further expands on these skills through business discipline specific assignments. (Pass/Fail. )

**ITM 106 DATABASE TOPICS (1-1-1)(F, S, SU).** Basic to intermediate database skills development, hardware, software, Internet, and networking concept materials for use in the workplace, educational settings, and the home. (Pass/Fail. )

**ITM 109 INTRODUCTORY SPREADSHEET TOPICS (1-1-1)(F, S, SU).** Introduction to spreadsheet skills using Excel. (Pass/Fail. ) ITM 109 cannot be taken for credit after ITM 105.

**ITM 225 INTRODUCTION TO PROGRAMMING (3-0-3)(F, S).**

Introduction to object-oriented programming, rapid development tools, and object oriented design principles. Includes essential programming concepts of sequence, selection, iteration, arrays and string manipulation, testing and program documentation. PREREQ: MATH 143 or MATH 149 or MATH 160 or MATH 170 or satisfactory placement score into one of these math courses.

#### Upper Division

**ITM 305 INFORMATION TECHNOLOGY AND NETWORK ESSENTIALS (3-0-3)(F, S).** Topics include basic concepts of computer hardware, operating systems, data and file management, networking standards, protocols, topologies, architectures, and telecommunications principles. PREREQ: Admission to COBE or Games, Interactive Media, and Mobile major or Health Informatics and Information Management emphasis.

**ITM 310 BUSINESS INTELLIGENCE (3-0-3)(F, S, SU).** Study of information technology resources that support decision making in organizations. Enterprise systems, databases, networks, and other technologies that support the collection, organization, and analysis of data are discussed. Skills necessary to collect, process, analyze, and present business intelligence are practiced through hands-on project experience. Ethical, legal, and behavioral issues of conducting business intelligence considered throughout. PREREQ: BUSCOM 201 for business majors or ENGL 212 or BUSCOM 201 for non-business majors or Business and Economic Analytics majors, ENGL 102, and ITM 105 or successful completion of the COBE Computer Placement Exam for ITM 105.

**ITM 315 DATABASE SYSTEMS (3-0-3)(F, S).** Introduction to design, development and administration issues of relational databases and DBMS, and their applications to real-business problems. Special emphasis on SQL, logical data design techniques, XML, and rapid prototyping of end user business applications. PREREQ: Admission to COBE or Business and Economic Analytics major, or Games, Interactive Media, and Mobile major, or Health Informatics and Information Management emphasis, or English, Technical Communications Emphasis, junior standing, ITM 106 or successful completion of COBE Computer Placement Exam for ITM 106.

**ITM 320 SYSTEMS PLANNING AND ANALYSIS (3-0-3)(F, S).** Examines system development life cycle and agile methods to organize the systems development process. Emphasis on techniques to conduct the planning and analysis phases, requirements documentation, use case development, UML modeling, and prototyping through development of a validated set of requirements. PREREQ: MATH 160 or MATH 170, ITM 225 or CS 117 or CS 121.

**ITM 325 WEB APPLICATION DEVELOPMENT I (3-0-3)(F, S).** Design and implementation of web and data-based systems. Topics include client-server architectural alternatives, tools and development environments, database interfaces, use of multimedia, and challenges unique to the delivery environments. Implement projects using client-side scripting, server-side programming tools, or other distributed/cooperative processing approaches. PREREQ: Admission to COBE or Games, Interactive Media, and Mobile major, or Health Informatics and Information Management emphasis and ITM 225 or GIMM 110 or CS 117 or CS 121.

**ITM 330 PREDICTIVE ANALYTICS (3-0-3)(F).** Fundamentals of predictive analytics will be examined. Topics will include problem definition, data preparation, and the use of analytic techniques to solve business problems. Modeling techniques will focus on predictive analytics utilizing both data and text. PREREQ: Junior standing, and BUSSTAT 207 or MATH 254 or MATH 360 or MATH 361.

**ITM 340 BIG DATA AND WEB ANALYTICS (3-0-3)(S).** Explores challenges and opportunities with Big Data and Web 2.0 using R Project. Topics include: introduction to Big Data and Web 2.0, introduction to R Project for Statistical Computing, sourcing data from web-based applications, data cleaning and preparation, structured and unstructured data analysis, and visualizing and communicating findings. PREREQ: ITM 310; ITM 225 or CS 111 or CS 133 or PERM/CHAIR.

**ITM 370 MOBILE APPLICATION DEVELOPMENT (3-0-3)(F, S).**

Develop native and web-based applications for mobile devices. Hands-on project-oriented. Procedures for converting code to multiple platforms. PREREQ: ITM 225 or GIMM 110 or CS 117 or CS 121.

**ITM 415 ADVANCED DATABASE (3-0-3)(F).** Advanced database management system design principles and techniques. Topics include, but are not limited to, advanced SQL statements, access methods, query processing and optimization, concurrency controls, non-relational databases. PREREQ: ITM 315.

**ITM 435 (SCM 435) PROJECT MANAGEMENT (3-0-3)(F, S, SU).**

Fundamental project management concepts and tools are introduced including project planning and scheduling, PERT/CPM, project tracking and control risk assessment, and resource utilization. PREREQ: Admission to COBE and SCM

## INFORMATION TECHNOLOGY AND SUPPLY CHAIN MANAGEMENT

301. PREREQ for Industrial Engineering Minor: MATH 175, SCM 301, and junior standing. PREREQ for Games Interactive Media, and Mobile majors and Health Informatics and Information Management emphasis: Admission to program. PREREQ for BEA majors: MATH 175 and junior standing.

**ITM 455 INFORMATION SECURITY (3-0-3)(F, S).** In-depth exploration of security issues and challenges in organizations. Topics include the need for security, policy development and implementation, risk assessment, security threats and vulnerabilities, security controls and tools. Exercises explore defense against security threats, secure application development, and network design issues. PREREQ: Admission to COBE, Games, Interactive Media, and Mobile major or Health Informatics and Information Management emphasis, ITM 305 or PERM/CHAIR.

**ITM 460 CLOUD COMPUTING (3-0-3)(S).** An introduction to the essentials of cloud computing. Hands-on exercises provide a foundation in infrastructure, platform, and software as a service concepts including storage, computing, networking, identity and access management, content delivery and management. PREREQ: ITM 305 or CS-HU 153 and ITM, GIMM, HIM, or CS major.

**ITM 493 INTERNSHIP (Variable Credit)(F/S/SU).** Field learning for information technology in an applied environment under supervision of both a manager and professor. (Pass/Fail.) PREREQ: Admission to COBE, completion of 9 credit hours of ITM coursework.

**ITM 495 CURRENT TOPICS IN INFORMATION TECHNOLOGY MANAGEMENT (1-4 Credits)(On Demand).** Key topics in Information Technology Management area currently receiving heavy emphasis in business practitioner journals and/or in academic literature. May be repeated for credit. PREREQ: Admission to COBE, ITM 320, ITM 325 and PERM/CHAIR.

### SCM—Supply Chain Management

#### Upper Division

**SCM 301 PRINCIPLES OF SUPPLY CHAIN MANAGEMENT (3-0-3)(F, S, SU).** Introduction to the core supply chain management activities in manufacturing and service firms. This includes operations strategy, purchasing, forecasting, capacity planning, quality management, lean processes, inventory management, logistics, facility location, material planning, scheduling, project management, and more. PREREQ: ITM 105 and one of the following: MATH 143, MATH 149, MATH 160, MATH 170.

**SCM 366 SUPPLY CHAIN ANALYTICS (3-0-3)(F, S).** Introduction to selected optimization models and simulation techniques for managing the supply chain. Topics include developing, solving, and analyzing optimization and simulation models related to supply chain production, inventory, and distribution decisions. COREQ: MATH 160 or MATH 170. PREREQ: Admission to COBE or Business and Economic Analytics major, SCM 301, and junior standing. PREREQ for Industrial Engineering Minor: MATH 175 and SCM 301.

### SCM 380 QUALITY MANAGEMENT AND LEAN PROCESS

**IMPROVEMENT (3-0-3)(F, S).** Introduces the philosophy and theory of quality; the process of planning and designing for quality; the basic tools of quality and business process improvement used by organizations in the U.S. and around the world. Emphasis will be placed on understanding how the tools are implemented to aid in quality and process improvement in supply chain. PREREQ: Admission to COBE, SCM 301. PREREQ for Industrial Engineering Minor: MATH 175, SCM 301, and junior standing.

**SCM 410 LOGISTICS (3-0-3)(F, S).** Introduction to the transportation, warehousing, and distribution systems roles in creating competitive advantage for global supply chain processes. Emphasis on operation, design, and analysis of effective transportation and distribution systems. PREREQ: Admission to COBE, MATH 160 or MATH 170, SCM 301, and SCM 366. PREREQ for Industrial Engineering Minor: MATH 175, SCM 301, and junior standing.

**SCM 416 PROCUREMENT AND SUPPLY CHAIN INTEGRATION (3-0-3)(F, S).** Procurement topics including supplier selection, negotiation, contracts, supplier relationship management, and ethical issues, international outsourcing, coordinating and integrating supply networks. PREREQ: SCM 301.

**SCM 420 CREATING SUSTAINABLE GOODS AND SERVICES (3-0-3)(On Demand).** Creation of environmentally sustainable goods and services. Tools and concepts covered include life-cycle analysis, environmental purchasing, green logistics, reverse logistics, closed loop supply chains, design for the environment, industrial ecology environmental management systems, sustainable operations and strategy. PREREQ: Admission to COBE or Industrial Engineering Minor and junior standing, SCM 366.

**SCM 435 (ITM 435) PROJECT MANAGEMENT (3-0-3)(F, S, SU).** Fundamental project management concepts and tools are introduced including project planning and scheduling, PERT/CPM, project tracking and control risk assessment, and resource utilization. PREREQ: Admission to COBE and SCM 301. PREREQ for Industrial Engineering Minor: MATH 175, SCM 301, and junior standing. PREREQ for Games Interactive Media, and Mobile majors and Health Informatics and Information Management emphasis: Admission to program. PREREQ for BEA majors: MATH 175 and junior standing.

**SCM 493 INTERNSHIP (Variable Credit)(F/S).** Field learning in a production and operations management environment under supervision of both a manager and a professor. PREREQ: Admission to COBE, SCM 301.

# Innovation and Design

Albertsons Library Floor 2  
 (208) 426-2975 (phone)  
 cid@boisestate.edu (email)  
<https://www.boisestate.edu/cid/> (website)

*Program directors:* Jillana Finnegan, Alison Skilbred, Mark Woychick.

## Program Offered

- Certificate in Innovation and Design: Emerging Applications (IDEA)
- Certificate in UX Design

## Program Statement

The College of Innovation and Design (COID) serves as an academic laboratory where faculty and students from across the university can share ideas for redesigning learning strategies, research methods, and degrees. Through a combination of majors, certificates, badges, and programs, we offer a framework of learning that allows for divergent thinking. For a list of all COID Certificates, degrees, and programs, please visit the College of Innovation and Design section at the front of the catalog.

## Degree Requirements

| Innovation and Design: Emerging Applications (IDEA) Certificate                               |         |
|---|---------|
| Course Number and Title   | Credits |
| COID 330 Creative Concepting  | 3       |
| COID 331 Growth Hacking   | 3       |
| COID 332 Analytics for Design   | 3       |
| COID 333 Emerging Technology  | 3       |
| Total   | 12      |
| The certificate will be awarded following completion of an associate or baccalaureate degree. |         |

| UX Design Certificate   |         |
|---|---------|
| Course Number and Title   | Credits |
| COID 350 UX Design Foundations  | 3       |
| COID 351 Intro to Human Computer Interaction  | 3       |
| COID 352 Designing for Impact   | 3       |
| COID 353 UX Design Studio   | 3       |
| Total   | 12      |
| The certificate will be awarded following completion of an associate or baccalaureate degree. |         |

## Course Offerings

### COID—College of Innovation and Design

#### Lower Division

**COID 100 INTRO TO CLOUD COMPUTING (1-0-1)(F/S).** Detailed overview of cloud concepts including but not limited to: core services, security, architecture, pricing, and support. Learners are prepared to pursue optional and relevant industry certifications. Does not require any prior background or coursework in programming or computing.

**COID 210 APPLIED PERSONAL FINANCE (2-0-2)(F/S).** Develop healthy and positive mindset around managing finances to improve quality of life. Understand and apply financial skills including credit, taxes, insurance, retirement funds, increasing income through investment and entrepreneurship, budgeting, and paying off debt. Series of projects culminate in a fully-developed personal financial plan.

#### Upper Division

**COID 300 DESIGN THINKING: CREATIVE PROBLEM SOLVING (3-0-3)(F/S).** Learn to work better in teams, apply new thinking to solve challenges, and uncover your creative capacity using Design Thinking as a framework for gaining insights about people's needs. Unleash your creative confidence and make a positive impact in your community by collaborating with a local purpose-driven organization for a team-based design challenge. PREREQ: Upper-division standing or PERM/INST.

**COID 320 THE STARTUP GARAGE (3-0-3)(F/S).** Interact with potential customers, advisors, investors, and partners to understand and overcome challenges facing new endeavors. Student cohort works with Venture College mentors to apply lean startup methodologies to develop, launch, and pitch their ideas to peers, mentors, and investors. Earn skill specific badges, culminating with the Launch Ready Entrepreneurial Badge. May be repeated twice for credit. PREREQ: Upper-division standing or PERM/INST.

**COID 330 CREATIVE CONCEPTING (3-0-3)(F, S, SU).** Using applied design thinking methods, learn techniques for gaining empathy; taking risks to have healthy, low-risk failures, and gain confidence in sharing emerging ideas with others. Develop creative problem-solving skills and empowering feedback practices while engaging in effective debate within teams in order to move beyond good, in pursuit of excellent. Learn how context (who, what, where, when, why, how) impacts design in order to develop applications that deliver value to the user. PREREQ: upper-division standing.

**COID 331 GROWTH HACKING (3-0-3)(F, S, SU).** Learn innovative techniques to reach and engage customers at scale through a variety of digital channels to spur growth for developed concepts. Create prototype companies at the beginning of the course and learn new techniques to build on upon concepts. Skills learned include but are not limited to: web design, email marketing, social media, and digital advertising, while also earning digital platform certifications. PREREQ: upper-division standing.

**COID 332 ANALYTICS FOR DESIGN (3-0-3)(F, S, SU).** Develop an understanding of how to gather user needs, create journey maps, conduct user testing, turn data into insights, and produce user experiences that deliver results. By using industry-standard enterprise research and analytics tools, students will begin to understand how to collect data, visualize it, and most importantly, how to understand and apply it. The developed experiences will showcase how a user can seamlessly travel across physical and digital touch points to achieve their desired goal. Produced works may also serve as learner portfolio assets. PREREQ: upper-division standing.

**COID 333 EMERGING TECHNOLOGY (3-0-3)(F, S, SU).** Gain hands-on experience working with emerging technologies including, but not limited to: virtual reality, augmented reality, 3D printing, internet of things, artificial intelligence, machine learning, and voice assistance. Use these tools to develop creative solutions and learn to apply them to a variety of projects and settings. PREREQ: upper-division standing.

**COID 350 UX DESIGN FOUNDATIONS (3-0-3)(F/S).** Learn to develop products and services by applying a user-centered approach. Learn to reduce risk and to accelerate learning using prototyping. Gain an understanding of design thinking mindsets and UX design tools that are foundational to user experience. Gain insights into the cognitive processes which drive how people interact with technology and the importance of usability over aesthetics, in product and service design. PREREQ: upper-division standing.

**COID 351 INTRO TO HUMAN-COMPUTER INTERACTION (3-0-3)(F/S).** Acquire an understanding of the design process in interaction design and the ways human senses play a role in the experience. Learn how to choose user interface (UI) design patterns and organize content effectively, ways to enhance the user experience of a user interface, and the application of these principles to mobile user experience design. PREREQ: upper-division standing.

**COID 352 DESIGNING FOR IMPACT (3-0-3)(F/S).** Learn how to create products and services that people love by gaining insight into how to inject positive emotional experiences into UX designs, how to build with accessibility standards and “Universal Design” principles, and the various facets of social design. PREREQ: upper-division standing.

**COID 353 UX DESIGN STUDIO (3-0-3)(F/S).** In this project-based capstone, learners will apply UX Design principles in an applied UX Design project. PREREQ: COID 350, COID 351, COID 352 or PERM/INST.

**COID 400 HARVARD BUSINESS SCHOOL ONLINE AT BOISE STATE I AND II (9-0-9)(F/S/SU).** Includes both participation in Harvard Business School’s online Credential of Readiness course (HBS CORE) and a regular, instructor-led class to accompany each week’s online lesson. Develops familiarity and foundational skills in areas ranging from data analytics, economics, and accounting. Consists of three concurrent tracks titled Business Analytics, Financial Accounting, and Economics for Managers with online lessons developed by Harvard Business School faculty using real life case examples. Successful completion will receive the Credential of Readiness from HBS in addition to Boise State course credit. (Pass/Fail.) COID 400 cannot be taken for credit after COID 401 or 402. PREREQ: Completion of FC requirement, upper-division standing, and PERM/INST.

**COID 401 HARVARD BUSINESS SCHOOL ONLINE AT BOISE STATE I (5-0-5)(F).** Includes both participation in Harvard Business School’s online Credential of Readiness course (HBS CORE) and a regular, instructor-led class to accompany each week’s online lesson. Develops familiarity and foundational skills in basic and intermediate data analytics, economics, and accounting. Consists of three concurrent tracks titled Business Analytics, Financial Accounting, and Economics for Managers with online lessons developed by Harvard Business School faculty using real life case examples. (Pass/Fail.) COID 401 cannot be taken for credit after COID 400. PREREQ: Completion of FC requirement, upper-division standing, and PERM/INST.

**COID 402 HARVARD BUSINESS SCHOOL ONLINE AT BOISE STATE II (4-0-4)(S).** Includes both participation in Harvard Business School’s online Credential of Readiness course (HBS CORE) and a regular, instructor-led class to accompany each week’s online lesson. Develops familiarity and foundational skills in advanced applications of data analytics, economics, and accounting. Consists of three concurrent tracks titled Business Analytics, Financial Accounting, and Economics for Managers with online lessons developed by Harvard Business School faculty using real life case examples. Successful completion will receive the Credential of Readiness from HBS in addition to Boise State course credit. (Pass/Fail.) COID 402 cannot be taken for credit after COID 400. PREREQ: COID 401, upper-division standing, and PERM/INST.

**COID 493U WORK U (0-6-3)(F, S, SU).** Designed to provide students with professional experiences, regardless of their major. Students will develop their professional network alongside a mentor at a Treasure Valley employer. Time is spent on site with employers and on campus in a weekly class session. The class sessions are designed to unpack what the students are learning on the job, attend interactive workshops, engage with dynamic guest leaders from partner employers, and learn skills that translate directly to a professional setting. No more than 12 Work U and/or internship credits may be applied towards graduation requirements. PREREQ: Upper-division standing and PERM/INST.

**HES—Human-Environment Systems**

**Lower Division**

**HES 220 SYSTEMS THINKING AND SUSTAINABILITY (3-0-3)(S).** Introduces the fundamentals of systems thinking and complexity science. Students use modeling exercises and case studies to apply course concepts to sustainability issues. May include dynamics, chaos, emergence, networks and evolution.

**Upper Division**

**HES 400 FOUNDATIONS IN HUMAN-ENVIRONMENT SYSTEMS SCIENCE (3-0-3)(F).** Explores transdisciplinary and collaborative approaches in human-environment systems (HES) science to help solve complex environmental problems facing human society, such as global climate change and natural resource management. Provides students with a foundational understanding of the theories, methods, and applications of HES science. PREREQ: upper-division standing.

# Intensive English Pathway Program

(208) 426-1921 (phone)  
 iepinfo@boisestate.edu (email)  
<https://www.boisestate.edu/globaleducation-iep/> (website)

*Program director:* Stephanie Marlow

## Program Statement

If you would like to pursue an undergraduate degree at Boise State University but do not have a high enough TOEFL or IELTS score, you may be eligible to start your studies in the Boise State Pathway Program. Designed for international students who need additional English language support, the Pathway Program offers language skill development, academic preparation and ongoing cultural orientation to help you prepare for success at Boise State and beyond.

In this program, you will have the opportunity to take academic English classes and undergraduate courses at the same time; improve your English language skills for academic success; and earn university credits. Upon successful completion of the Pathway Program, you will receive full admission to Boise State.

## Course Offerings

### IEPATH—Intensive English Pathway

#### Lower Division

**IEPATH 031 INTERMEDIATE ENGLISH GRAMMAR I (3-0-0)(F, S, SU).** Intensive review of fundamentals of grammatical structures in a communicative context. Exploration of compound and complex sentence structures and correct usage of intermediate level grammatical verb tenses and structures. Focus on expression and accuracy. PREREQ: Admission into IEPATH program, IEP Placement scores or PERM/CHAIR.

**IEPATH 032 INTERMEDIATE ENGLISH COMMUNICATION I (4-0-0)(F, S, SU).** Emphasis on the development of emergent fluency and accuracy in spoken English. Students will discuss a variety of topics with a focus on development and integration of academic vocabulary. PREREQ: Admission into IEPATH program, IEP Placement scores or PERM/CHAIR.

**IEPATH 033 INTERMEDIATE ENGLISH COMPOSITION I (4-0-0)(F, S, SU).** Study and practice of the essay writing process with attention to thesis, clarity, organization, and cohesion. Students will demonstrate sentence variety through writing compound, complex, and compound-complex sentences. PREREQ: Admission into IEPATH program, IEP Placement scores or PERM/CHAIR.

**IEPATH 036 INTERMEDIATE ENGLISH CRITICAL LISTENING SKILLS I (3-0-0)(F, S, SU).** Introduction to academic presentations and short lectures. Students will apply various listening comprehension strategies and note-taking skills. PREREQ: Admission into IEPATH program, IEP Placement scores or PERM/CHAIR.

**IEPATH 037 INTERMEDIATE ENGLISH ACADEMIC READING AND VOCABULARY I (4-0-0)(F, S, SU).** Emphasis on intensive and extensive reading of adapted fiction and nonfiction with a focus on vocabulary development. Addresses reading skills such as note-taking, skimming, scanning, inferring, and summarizing. PREREQ: Admission into IEPATH program, IEP Placement scores or PERM/CHAIR.

**IEPATH 041 INTERMEDIATE ENGLISH GRAMMAR II (3-0-0)(F, S, SU).** Further development of the formation of complex sentence structures with a focus on expression and accuracy. Emphasis on the accurate use of tense, voice, and dependent clauses to express ideas about texts and the opinions of others. Intensive study of high intermediate structures in a communicative context. PREREQ: Admission into IEPATH program, IEP Placement scores or PERM/CHAIR.

**IEPATH 042 INTERMEDIATE ENGLISH COMMUNICATION II (4-0-0)(F, S, SU).** Emphasis on the development of public speaking skills through academic discussion, debate, presentations, and research. Guided acquisition of

integrating academic vocabulary in public speaking. PREREQ: Admission into IEPATH program, IEP Placement scores or PERM/CHAIR.

**IEPATH 043 INTERMEDIATE ENGLISH COMPOSITION II (4-0-0)(F, S, SU).** Development of critical thinking and writing through analysis of sample essays and discussions of different rhetorical styles. Emphasis on essay process writing and accurate integration of research. Introduces U.S. techniques to citing sources. Students will practice using a variety of complex sentences and verb tenses. PREREQ: Admission into IEPATH program, IEP Placement scores or PERM/CHAIR.

**IEPATH 044 UNIVERSITY SUCCESS SEMINAR (1-2-0)(F, S, SU).** Emphasis on integration into U.S. university classroom culture, academic social protocols, and collaborative learning styles. Targets acquisition of academic vocabulary, and study strategies for reading college textbooks, academic articles and informational essays. Direct applications of strategies to the reading materials in IEPATH student's current university courses. PREREQ: Admission into IEPATH program, IEP Placement scores or PERM/CHAIR.

**IEPATH 046 INTERMEDIATE ENGLISH CRITICAL LISTENING SKILLS II (3-0-0)(F, S, SU).** Focus on effective and clear note-taking skills through practice and exposure to a variety of spoken input. Students will develop listening strategies such as identifying verbal cues and analyzing logical arguments, effective persuasion, appropriate justification, and rebuttal. PREREQ: Admission into IEPATH program, IEP Placement scores or PERM/CHAIR.

**IEPATH 047 INTERMEDIATE ENGLISH ACADEMIC READING AND VOCABULARY II (4-0-0)(F, S, SU).** Development of critical thinking through the reading and interpretation of authentic materials. Guided acquisition of academic vocabulary using a variety of decoding techniques and corpus linguistics. PREREQ: Admission into IEPATH program, IEP Placement scores or PERM/CHAIR.

**IEPATH 145 PATHWAY SEMINAR I (2-3-2)(F, S, SU).** Focuses on an inquiry-based research project. Development of a research question, collection evidence and data, process writing and presentation of research essay. Continued discussion of academic integrity with a focus on improving effective U.S. citation practices. PREREQ: Admission into IEPATH program, IEP Placement scores or PERM/CHAIR.

**IEPATH 151 ADVANCED ENGLISH GRAMMAR I (3-0-3)(F, S, SU).** An intensive study of the formal written and spoken structures of English grammar with a focus on accurate expression. Development and application of a variety of advanced grammatical structures including in-depth analysis of morphology and rules through output in written and spoken communication. Addresses the subtleties of structures and exceptions. PREREQ: Admission into IEPATH program, IEP Placement scores or PERM/CHAIR.

**IEPATH 152 ADVANCED ENGLISH COMMUNICATION (4-0-4)(F, S, SU).** Emphasis on the development of advanced speaking skills in preparation for presentations conforming to U.S. university expectations. Expansion of active use of academic vocabulary. Students will prepare community-based research projects. PREREQ: Admission into IEPATH program, IEP Placement scores or PERM/CHAIR.

**IEPATH 153 ADVANCED ENGLISH COMPOSITION (4-0-4)(F, S, SU).** Focus on citing sources, summarizing and paraphrasing, and other effective, ethical citation practices used in extensive research-based writing. Practice independent vocabulary acquisition and using sentence variety to produce more sophisticated essays and responses in preparation for a U.S. university classroom. May be repeated for credit one time. PREREQ: Admission into IEPATH program, IEP Placement scores or PERM/CHAIR.

**IEPATH 154 PATHWAY SEMINAR II (2-3-2)(F, S, SU).** IEPATH exit requirement course. Demonstrate advanced proficiency in the written and spoken discourse of US English by means of a research paper, an expanded oral presentation on the topic of the paper, and a completion of IEPATH portfolio. Course includes an exit oral proficiency interview. May be repeated for credit one time. PREREQ: Admission into IEPATH program, IEP Placement scores or PERM/CHAIR.

**IEPATH 156 ADVANCED ENGLISH CRITICAL LISTENING SKILLS (4-0-4)(F, S, SU).** Emphasis on the development of advanced critical listening and note-taking skills through longer academic lectures. Students will develop interview skills and conduct primary research to support their academic portfolios. PREREQ: Admission into IEPATH program, IEP Placement scores or PERM/CHAIR.

**IEPATH 157 ADVANCED ENGLISH ACADEMIC READING AND VOCABULARY (4-0-4)(F, S, SU).** Close readings of academic material and novels, including analysis of literary devices, and abstract and concrete concepts. Students will evaluate sources for logic, accuracy and quality of scholarship as well as practice independent vocabulary acquisition and expand targeted academic vocabulary. May be repeated for credit one time. PREREQ: Admission into IEPATH program, IEP Placement scores or PERM/CHAIR.

#### Upper Division

**IEPATH 461 ACADEMIC ENGLISH COMMUNICATION I (4-0-4)(F, S, SU).** Emphasis on the development of advanced speaking skills to prepare for successful participation in graduate-level classes in the U.S. Focus on the development of presentation skills, integration of academic research and the expansion of active use of academic vocabulary. May not be applied to a graduate degree. PREREQ: Admission into IEPATH program, IEP Placement scores or PERM/CHAIR.

**IEPATH 462 ACADEMIC ENGLISH COMMUNICATION II (4-0-4)(F, S, SU).** Further development of advanced speaking skills to prepare for successful participation in graduate-level classes in the U.S. Continued focus on the development of presentation skills and the expansion of active use of academic vocabulary. May not be applied to a graduate degree. PREREQ: Admission into IEPATH program, IEP Placement scores or PERM/CHAIR.

**IEPATH 463 ACADEMIC ENGLISH WRITING (4-0-4)(F, S, SU).** Exploration of academic writing, discourse and argument. Emphasis on application of organizational patterns, research integration and strategies of writing for academic purposes. Students will write extensive research-based essays and responses in preparation for an American graduate program. May not be applied to a graduate degree. PREREQ: Admission into IEPATH program, IEP Placement scores or PERM/CHAIR.

**IEPATH 464 ACADEMIC ENGLISH READING AND VOCABULARY (4-0-4)(F, S, SU).** Focus on extensive critical reading and analysis of academic topics in preparation for graduate studies. Exploration of rhetorical techniques and structures. Students will learn strategies to respond to academic texts and will expand targeted academic vocabulary. May not be applied to a graduate degree. PREREQ: Admission into IEPATH program, IEP Placement scores or PERM/CHAIR.

**IEPATH 465 ACADEMIC ENGLISH PATHWAY SEMINAR (1 to 6 credits)(F, S, SU).** Emphasis on enhancing research and project management skills. Conduct extensive research for writing projects and evaluate sources for logic, accuracy, and quality of scholarship. Use collaborative writing process for writing annotated bibliographies, literary analysis and research essays. May be repeated for credit one time. May not be applied to a graduate degree. PREREQ: Admission into IEPATH program, IEP Placement scores or PERM/CHAIR.

**IEPATH 470 RESEARCH METHODS (2-0-2)(F, S, SU).** Introduction to and practical application of research methods appropriate for conducting research in various contexts. Investigation of a variety of research approaches and strategies. Students will design, conduct, report and evaluate research projects. May be repeated for up to six credits. May not be applied to a graduate degree. PREREQ: Admission into IEPATH program, IEP Placement scores or PERM/CHAIR.

**IEPATH 493 GLOBAL LEADERS INTERNSHIP (variable credit)(F, S, SU).** The intent of the internship is to provide experiential intercultural learning experiences. Students will deepen their cross-cultural awareness, increase global communication skills, engage in global leadership and reflect critically on these experiences. Focus of internship (global leadership; intercultural communication; teaching English to speakers of other languages) to be determined by the student and the internship coordinator. PREREQ: PERM/CHAIR.

## Intensive Semester Learning Experience

*College of Arts and Sciences*

### Course Offerings

#### ISLE—Intensive Semester Learning Experience

**ISLE 250, 350, 450 INTENSIVE SEMESTER LEARNING EXPERIENCE (6-9 credits)(F/S/SU).** ISLE dedicates a semester of coursework to a discrete project. Individually-designed immersive learning experiences encourage creative responses to tangible challenges through the development of creative/research projects. With modeling and mentoring, students work collaboratively and cross-disciplinarily, develop projects from start to finish, present their results, and build relationships with community partners. PREREQ: PERM/INST.

## Interdisciplinary Studies Program

*College of Arts and Sciences*

Education Building, 6<sup>th</sup> Floor, Room 601

(208) 426-1414 (phone)

idsundergrad@boisestate.edu (email)

<https://www.boisestate.edu/interdisciplinarystudies/> (website)

*Contact:* Kelly Meyers

### Degrees Offered

- Bachelor of Arts in Interdisciplinary Studies
- Bachelor of Science in Interdisciplinary Studies

### Program Statement

The purpose of this degree program is to permit students to assume responsibility for developing a plan of study with a theme that suits their individual interests and particular needs. Students formulate their own plans of study by using both intercollege and interdepartmental combinations of courses that will provide either a specialized or broad pattern of educational experience. Plans of study that focus on work in a single department or follow an established interdisciplinary major are excluded from the interdisciplinary studies degree. Though the bachelor's degrees are not designed as vocational or pre-professional programs, students may wish to develop plans of study that will prepare them for graduate study in a specific subject or for teaching in secondary education.

The dean of the College of Arts and Sciences or a designee serves as the director of the Interdisciplinary Studies Program. Overseeing the program is a university-wide Interdisciplinary Studies Committee consisting of one member from each academic school or college. The director of Interdisciplinary Studies serves as the chair of that committee. Each student in the program has an Advisory Committee composed of at least two, but no more than three, faculty members from the disciplines making up the interdisciplinary program. The student's Advisory Committee is responsible for helping the student select his or her particular plan of study and recommends to the Interdisciplinary Studies Committee that the plan of study be accepted. The Interdisciplinary Studies Committee is responsible for approving the members of the student's Advisory Committee, the student's plan of study, and the student's prospectus for the final project.

Students may withdraw from the program by presenting a letter of notification or by taking appropriate action to enter a program leading to another degree.

### Admission Requirements

General admission to the university is required but does not guarantee admission to the Interdisciplinary Studies Program. To apply for admission to the Interdisciplinary Studies Program, an undergraduate must satisfy the following prerequisites:

1. Completion of at least 30 credit hours with a minimum GPA of 2.75.
2. Completion of the university's general English Composition requirement.
3. Completion with a C or better of at least one foundation discipline course in each area (FM, FN, FA, FH, FS).



An applicant who satisfies these prerequisites will be admitted to the program and allowed to pursue a baccalaureate degree in Interdisciplinary Studies upon having successfully completed the following application process:

1. Consultation with the program director about the intended plan of study and confirmation by the director that the above prerequisites have been satisfied.
2. Selection by the student and preliminary approval by the program director of an Advisory Committee consisting of at least two, but not more than three faculty members. Submission of a degree proposal and approval of that proposal by the Interdisciplinary Studies Committee. The proposal must include the following:
  - A completed *Personal Data* form.
  - A completed Degree Plan, which lists courses to be included in the proposed interdisciplinary major, which satisfies degree requirements listed below for either the BA or BS in Interdisciplinary Studies, and which has been signed by all members of the proposed faculty Advisory Committee. The proposed interdisciplinary major must include at least 48 credit hours (including INTDIS 491 Project FF), 30 of which remain to be completed at the time of application.
  - A three-page Statement of Justification which (1) states intellectual, professional, or vocational reasons for requesting entry into the program, and (2) explains why established majors at Boise State do not meet the applicant’s needs.
  - Justification of the selection of courses in relation to the conception of the individualized program of study as a whole.

**Advisory Committee**

The student’s Advisory Committee shall be selected by the student with the approval of the university-wide Interdisciplinary Studies Committee. The Advisory Committee shall consist of at least two, but not more than three, members chosen from disciplines relevant to the student’s program of study. The Advisory Committee shall have responsibility for approving the student’s proposed program of study and prospectus for the final project, and for recommending acceptance of both of these to the Interdisciplinary Studies Committee.

**Interdisciplinary Studies Senior Project**

A prospectus of the senior Interdisciplinary Studies Senior Project must be submitted to the director of the program by October 1<sup>st</sup> or March 1<sup>st</sup> of the semester prior to doing the senior project. The prospectus will be prepared under the direction of the student’s Advisory Committee and will state the project’s topic, its hypothesis or goal, and the activities to be carried out; it will also clearly reveal how the project is related to the approved plan of study as a whole. The student will enroll for the project during the senior year under the Interdisciplinary Studies number INTDIS 491 Project. The project prospectus must be approved by the Interdisciplinary Studies Committee prior to registration for INTDIS 491 (which requires approval by the IDS program director). The student is expected to consult on a regular basis with Advisory Committee members during the process of completing the project. The project is also expected to result in a written report, essay, or thesis which will be submitted to the Advisory Committee members and to the program director. Upon completion of the project and written report, essay, or thesis, the chair of the Advisory Committee will, after consultation with other Advisory Committee members, assign a letter grade.

**Degree Requirements**

| Interdisciplinary Studies<br>Bachelor of Arts or Bachelor of Science   |                |
|--|----------------|
| <i>Course Number and Title</i>   | <i>Credits</i> |
| University Foundations requirements indicated in bold. See page 48 for details and lists of approved courses.  |                |
| <b>UF 100 Foundations of Intellectual Life</b>   | 3              |
| <b>UF 200 Foundations of Ethics and Diversity</b>  | 3              |
| <b>FW ENGL 101 Writing and Rhetoric I</b>  | 3              |
| <b>FW ENGL 102 Writing and Rhetoric II</b>   | 3              |
| <b>FC Foundations of Oral Communication</b>  | 3              |
| <b>FF INTDIS 491 Project</b> —in completing the project, you must draw critically from two (2) or more disciplines you have studied and integrate disciplinary insights you have gained.   | 3              |
| <b>FM Foundations of Mathematics course</b>  | 3-4            |
| <b>FN Foundations of Natural, Physical, &amp; Applied Sciences course with lab</b>   | 4              |
| <b>FN Foundations of Natural, Physical, &amp; Applied Sciences course in a second field</b>  | 3              |
| <b>FA Foundations of Arts course</b>   | 3              |
| <b>FH Foundations of Humanities course</b>   | 3-4            |
| <b>FS Foundations of Social Sciences course</b>  | 3              |
| <b>FS Foundations of Social Sciences course in a second field</b>  | 3-4            |
| Major—At least two (2) fields must be represented. No more than 30 credits from the College of Business and Economics, or from any one (1) department may be included.   | 45             |
| Upper-division electives to total 40 credits<br>Credits from all 300- and 400-level courses, whether elective or required, are applicable. The number in the right-hand column is an estimated number of additional upper-division credits that may be needed to satisfy this requirement. | 0-17           |
| Electives to total 120 credits<br>The number in the right-hand column is an estimated number of remaining elective credits that can be taken at either upper- or lower-division level.   | 18-35          |
| Total  | 120            |

**Course Offerings**

**INTDIS—Interdisciplinary Studies**

**Upper Division**

**INTDIS 491 PROJECT (3-0-3)(F/S)(FF).** The prospectus will be prepared under the direction of the student’s Advisory Committee and will state the project’s topic, its hypothesis or goal, and the activities to be carried out; it will also clearly reveal how the project is related to the approved plan of study as a whole. The student must draw critically from two or more disciplines and integrate disciplinary insights the student has studied.

## Department of Kinesiology

College of Health Sciences | School of Allied Health Sciences

Kinesiology Building, Room 209

(208) 426-4270 (phone)

(208) 426-1894 (fax)

kinesinfo@boisestate.edu (email)

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*Chair and Professor:* Jane Shimon. *Professors:* Gao, Johnson, Simonson. *Associate Professors:* Conger, Hammons, Lucas, McChesney, Petranek. *Assistant Professors:* Brown, Martin, Zhang. *Clinical Professors:* Bell, Ford. *Clinical Associate Professor:* Kempf. *Clinical Assistant Professors:* Ludwig, Moorcroft.

### Degrees Offered

- Bachelor of Science in K-12 Physical Education
- Bachelor of Science in Kinesiology
  - Biomechanics Emphasis
  - Exercise Science Emphasis
  - Pre-Allied Health Emphasis
  - Pre-Athletic Training Emphasis
- Certificate in Sport Coaching

### Department Statement

The Department of Kinesiology provides comprehensive undergraduate and graduate degree programs that: a) incorporate scientific and professional methods of inquiry to study physical activity, exercise, sport, and health-related issues; b) advance the body of knowledge through scholarly inquiry and; c) expose students to a wide-range of fitness and sport activities that help promote lifelong well-being.

### Degree Requirements

**K-12 Physical Education** assists students in developing the knowledge, skills, and dispositions essential for success in teaching physical education in the elementary and secondary schools. Coursework combines content knowledge, theories of learning and human development, and the study of curriculum and methodology. The K-12 PE cohort program admits up to 15 students per year as part of an application process during the sophomore year. Students must pass Praxis I, Praxis II, maintain a 3.0 overall GPA, 3.0 in Education courses, and 3.0 in all KINES courses. Students must provide a current CPR and first aid certification. Transfer coursework will not be used to fulfill the following courses: KINES 251, 351/352, and 451/452. Candidates who complete this program will meet the Idaho Beginning Teacher Standards and be recommended for state certification.

| K-12 Physical Education<br>Bachelor of Science  |         |
|---|---------|
| Course Number and Title   | Credits |
| University Foundations requirements indicated in bold. See page 48 for details and lists of approved courses. |         |
| <b>UF 100</b> Foundations of Intellectual Life  | 3       |
| <b>UF 200</b> Foundations of Ethics and Diversity   | 3       |
| <b>FW ENGL 101</b> Writing and Rhetoric I   | 3       |
| <b>FW ENGL 102</b> Writing and Rhetoric II  | 3       |
| <b>FC</b> Foundations of Oral Communication   | 3       |
| <b>FM MATH 143</b> College Algebra  | 3       |
| <b>FN BIOL 227</b> Human Anatomy and Physiology I   | 4       |
| <b>FN CHEM 101, 101L</b> Introduction to Chemistry & Lab  | 4       |
| <b>FA</b> Foundations of Arts course  | 3       |
| <b>FH</b> Foundations of Humanities course  | 3-4     |
| <b>FS ED-CIFS 201</b> Education, Schooling, and Society   | 3       |
| <b>FS PSYC 101</b> Introduction to Psychology   | 3       |
| ED-CIFS 203 Child and Educational Psychology  | 3       |
| EDTECH 202 Teaching and Learning in a Digital Age   | 3       |
| KINES 102 Instructional Tennis  | 1       |
| KINES 103 Instructional Indoor Racket Activities  | 1       |
| KINES 105 Instructional Yoga and Pilates  | 1       |
| KINES 106 Instructional Disc Sport Activities   | 1       |
| KINES 107 Instructional Gymnastics  | 1       |
| KINES 110 Instructional Volleyball  | 1       |
| KINES 111 Instructional Basketball  | 1       |
| KINES 113 Instructional Golf  | 1       |
| KINES 114 Instructional Outdoor Education   | 1       |
| KINES 115 Instructional Recreational Games  | 1       |
| KINES 116 Instructional Rhythmic Skills/Dance   | 1       |
| KINES 117 Instructional Soccer  | 1       |
| KINES 140 Personal Health   | 3       |
| KINES 181 Introduction to Sport Coaching  | 3       |
| KINES 201 Cultural, Historical & Philosophical Dimensions of Physical Activity                                | 3       |
| KINES 251 Introduction to Teaching Physical Education   | 3       |
| KINES 270 Applied Anatomy   | 3       |
| KINES 301 Statistics, Measurement and Evaluation Concepts   | 3       |
| KINES 305 Adapted Physical Education  | 3       |
| KINES 330 Exercise Physiology and Lab   | 4       |
| KINES 351, 352 Elementary School Physical Education Methods and Field Experience                              | 4       |
| KINES 361 Conditioning Principles for Sport   | 2       |
| KINES 363 Exercise Psychology or<br>KINES 365 Social Psychology of Sport & Physical Activity                  | 3       |
| KINES 372 Applied Principles of Biomechanics  | 3       |
| KINES 375 Human Growth & Motor Learning and Lab   | 4       |
| KINES 451, KINES 452 Secondary School Physical Education Methods and Field Experience                         | 4       |
| KINES 455 Organization and Administration of Physical Education   | 2       |
| <b>FF KINES 458</b> Curriculum Design in Physical Education   | 3       |

|   |         |
|---|---------|
| KINES 460 Professional Year Elementary Teaching Experience  | 7       |
| KINES 461 Professional Year Secondary Teaching Experience   | 7       |
| Total   | 120-121 |
| Completion of all requirements for graduation with a secondary education option may require more than 120 credit hours. |         |

The **Bachelor of Science in Kinesiology** program focuses on developing practitioners who understand and evaluate information on physical activity, exercise, sport, and health-related issues, demonstrate related knowledge and competencies, and enhance evidence-based decision-making skills that affect improvements in health, fitness, performance, movement outcomes, safety, and efficiency. The BS in Kinesiology has four emphasis areas: a) Biomechanics, b) Exercise Science, c) Pre-Allied Health, and d) Pre Athletic Training. Admission to upper-division science courses in kinesiology is based on prerequisites including a minimum cumulative GPA of 3.0 and completion of the appropriate sequence of courses. Students are encouraged to seek academic advising early and regularly to assure timely progression of appropriate coursework in their chosen kinesiology degree plan.

| Kinesiology<br>Bachelor of Science   |                |
|--|----------------|
| <i>Course Number and Title</i>   | <i>Credits</i> |
| University Foundations requirements indicated in bold. See page 48 for details and lists of approved courses.                        |                |
| <b>UF 100</b> Foundations of Intellectual Life   | 3              |
| <b>UF 200</b> Foundations of Ethics and Diversity  | 3              |
| <b>FW ENGL 101</b> Writing and Rhetoric I  | 3              |
| <b>FW ENGL 102</b> Writing and Rhetoric II   | 3              |
| <b>FC</b> Foundations of Oral Communication  | 3              |
| <b>FM MATH 143</b> College Algebra   | 3              |
| <b>FN BIOL 227</b> Human Anatomy and Physiology I  | 4              |
| <b>FN</b> see emphasis area for specific requirement   | -              |
| <b>FA</b> Foundations of Arts course   | 3              |
| <b>FH</b> Foundations of Humanities course   | 3-4            |
| <b>FS PSYC 101</b> Introduction to Psychology  | 3              |
| <b>FS</b> Foundations of Social Sciences course in a second field  | 3-4            |
| BIOL 228 Human Anatomy and Physiology II   | 4              |
| KINES 140 Personal Health  | 3              |
| KINES 201 Cultural, Historical & Philosophical Dimensions of Physical Activity   | 3              |
| KINES 270 Applied Anatomy  | 3              |
| KINES 301 Statistics, Measurement & Evaluation Concepts or<br>MATH 254 Introduction to Statistics or<br>PSYC 295 Statistical Methods | 3              |
| KINES 330 Exercise Physiology and Lab  | 4              |
| KINES 370 Biomechanics and Lab   | 4              |
| KINES 375 Human Growth & Motor Learning and Lab  | 4              |
| KINES 430 Physical Activity for Special Populations & Lab  | 3              |
| KINES 493 Internship in Kinesiology  | 3              |
| BRNCOFIT Activities  | 2              |
| MATH 144 Precalculus II: Trigonometric Functions   | 2              |
| In addition, complete the courses listed under one of the emphases below to graduate with a BS in Kinesiology with an emphasis.      |                |

| Biomechanics Emphasis  |         |
|--|---------|
| <b>FN CHEM 101, 101L</b> Introduction to Chemistry & Lab or<br><b>FN CHEM 111, 111L</b> General Chemistry I with Lab | 4       |
| BIOL 477 Biomaterials  | 3       |
| ENGR 210 Engineering Mechanics I   | 3       |
| ENGR 220 Engineering Mechanics II  | 3       |
| KINES 416 Neuromechanics   | 3       |
| <b>FF KINES 425</b> Laboratory Techniques in Biomechanics  | 3       |
| MATH 170 Calculus I  | 4       |
| MATH 175 Calculus II   | 4       |
| ME 112 Introduction to Biomedical Engineering  | 1       |
| ME 356 Introduction to Solid Biomechanics  | 3       |
| MSE 245 Intro to Materials and Science & Engineering   | 3       |
| PHYS 211, 211L Physics I with Calculus and Lab   | 5       |
| PHYS 212, 212L Physics II with Calculus and Lab  | 5       |
| Upper-division electives to total 40 credits   | 4-10    |
| Total  | 120-121 |
| Exercise Science Emphasis  |         |
| <b>FN CHEM 101, 101L</b> Introduction to Chemistry & Lab or<br><b>FN CHEM 111, 111L</b> General Chemistry I with Lab | 4       |
| CHEM 102, 102L Essentials of Organic & Biochem II & Lab or<br>CHEM 112, 112L General Chemistry II & Lab              | 4       |
| HLTH 101 Medical Terminology   | 3       |
| HLTH 207 Nutrition or<br>KINES 332 Nutrition in Exercise and Sport   | 3       |
| KINES 220 Introduction to Athletic Injuries  | 3       |
| KINES 363 Exercise Psychology  | 3       |
| <b>FF KINES 432</b> Conditioning Procedures & Lab  | 3       |
| KINES 436 Exercise Testing and Prescription  | 3       |
| PHYS 111 General Physics I   | 4       |
| RESPCARE 220 Cardiopulmonary Renal Physiology  | 3       |
| Upper-division electives to total 40 credits   | 7-13    |
| Electives to total 120 credits   | 3-5     |
| Total  | 120     |
| Pre-Allied Health Emphasis   |         |
| BIOL 191 Biology I: Intro to Cell and Molecular Biology  | 4       |
| BIOL 192 Biology II: Introduction to the Diversity of Life   | 4       |
| <b>FN CHEM 111, 111L</b> General Chemistry I & Lab   | 4       |
| CHEM 112, 112L General Chemistry II & Lab  | 4       |
| CHEM 307, 308 Organic Chemistry I and Lab  | 5       |
| HLTH 101 Medical Terminology   | 3       |
| KINES 363 Exercise Psychology  | 3       |
| KINES 416 Neuromechanics   | 3       |
| <b>FF KINES 432</b> Conditioning Procedures & Lab  | 3       |
| KINES 436 Exercise Testing and Prescription  | 3       |
| PHYS 111-112 General Physics I & II  | 8       |
| PSYC 301 Abnormal Psychology   | 3       |
| Upper-division electives to total 40 credits   | 3-9     |
| Electives to total 120 credits   | 0-1     |
| Total  | 122-123 |

## KINESIOLOGY

| Pre-Athletic Training Emphasis   |            |
|--|------------|
| FN CHEM 101, 101L Introduction to Chemistry & Lab or<br>FN CHEM 111, 111L General Chemistry I with Lab   | 4          |
| HLTH 101 Medical Terminology   | 3          |
| HLTH 210 Health Services Administration  | 3          |
| HLTH 207 Nutrition or<br>KINES 332 Nutrition in Exercise and Sport   | 3          |
| HLTH 300 Pathophysiology   | 4          |
| KINES 121 Taping and Wrapping Techniques in Athletic Training  | 1          |
| KINES 220 Introduction to Athletic Injuries  | 3          |
| KINES 365 Social Psychology of Sport and Physical Activity   | 3          |
| KINES 427 Athletic Therapy   | 3          |
| FF KINES 432 Conditioning Procedures & Lab   | 3          |
| PHYS 111 General Physics I   | 4          |
| Students who do NOT apply for early admission or receive notice of early admission to the Masters of Athletic Training (MAT) complete additional undergraduate electives to total 120 credits, (3-6 credits must be 300-400 level). Recommended Electives: BIOL 191, BIOL 192, BIOL 205, BIOL 320, HIIM 215, PHYS 112, PSYC 290, PSYC 301, PSYC 331, RESPCARE 220. | 16-17      |
| Students who apply and receive notice of early admission to the Masters of Athletic Training (MAT) will be directed by the pre-Athletic Training advisor of the specific graduate-level courses needed to complete the 16 credit requirement.  |            |
| <b>Total</b>   | <b>123</b> |

A **Certificate in Sports Coaching** demonstrates the completion of a concentrated area of study. To earn the certificate one must first hold a degree. Or, students may enroll in certificate programs concurrently while working on a degree. Community members who already hold a degree may enroll in certificate programs. The Sports Coaching certificate will prepare individuals to utilize coaching principles and knowledge through experiential learning in various sport contexts.

| Sport Coaching Certificate  |                |
|---|----------------|
| <i>Course Number and Title</i>  | <i>Credits</i> |
| KINES 181 Introduction to Sport Coaching  | 3              |
| KINES 220 Introduction to Athletic Injuries   | 3              |
| KINES 360 Psychology of Sport Coaching  | 2              |
| KINES 361 Conditioning Principles for Sport   | 2              |
| KINES 362 Sport Coaching Methods and Administration   | 3              |
| KINES 493 Internship In Sport Coaching  | 2              |
| <b>Total</b>  | <b>15</b>      |
| The certificate will be awarded following completion of an associate or baccalaureate degree. |                |

**Health Teaching Endorsement** Meets the Idaho State Department of Education requirements for an endorsement on a K-12 certificate in the subject area of health.

| Health Teaching Endorsement  |                |
|--|----------------|
| <i>Course Number and Title</i>   | <i>Credits</i> |
| ADST 109 Drugs: Use and Abuse  | 3              |
| HLTH 207 Nutrition or<br>KINES 332 Nutrition in Exercise and Sport   | 3              |
| KINES 140 Personal Health  | 3              |
| KINES 242 Human Sexuality  | 3              |
| KINES 445 Elementary & Secondary School Health Methods & Administration  | 3              |
| Select two (2) courses from the following:<br>KINES 363 Exercise Psychology<br>PSYC 202 The Science and Practice of Happiness<br>PSYC 301 Abnormal Psychology<br>PSYC 331 The Psychology of Health | 6              |
| <b>Total</b>   | <b>21</b>      |

## Course Offerings

### BRNCOFIT—Bronco Fit

The Kinesiology BRNCOFIT Activity Program provides instruction in a variety of activities. Eight credits of fitness activity courses may be counted as electives toward graduation. No BRNCOFIT activity course may be challenged for credit. All BRNCOFIT activity courses are graded pass/fail; therefore, credits earned count toward graduation but earn no quality points used in calculating the grade-point average. All BRNCOFIT activity courses have special fees; fees vary upon activity.

Certain BRNCOFIT classes may be repeated. See course descriptions for further information.

Kinesiology BRNCOFIT activity course numbers provide the following information:

- 100-level courses are designed for the beginner who has had little or no instruction in the activity, or for activities that focus on the development or maintenance of physical fitness.
- 200-level courses are for the individual who has command of basic skills and is of intermediate or advanced performance level.

**BRNCOFIT 110 FENCING I (0-2-1)(F, S).** Designed as an introduction to fencing for those who have never fenced before, or are returning to the sport after an extended hiatus. Students will develop fundamental footwork skills, the blade work necessary for simple offense, defense, and counter-offense, and refereeing skills needed for both foil and epee. May be repeated for credit. (Pass/Fail. )

**BRNCOFIT 111 KAYAKING I (0-2-1)(F/S).** Basic skills of kayaking. Covers safe handling, self-rescue skills, and helping or rescuing others. Students must be able to maintain themselves in deep water, fully clothed, for ten minutes. May be repeated for credit (Pass/Fail. )

**BRNCOFIT 112 SKIN AND SCUBA DIVING I (0-2-1)(F, S).** Basic skin and scuba diving skills. Proper use of mask, fins, and snorkel, mechanical use of equipment, safety techniques, and panic control are stressed. Students must swim 400 yards, tread water for 15 minutes, and carry a ten pound weight 25 yards. Certification is optional. (Pass/Fail. )

**BRNCOFIT 113 SWIMMING I (0-2-1)(F, S).** Basic water safety, skill, and knowledge; floating, bobbing, diving, rhythmic breathing, treading water, and introduction to the crawl, side, and elementary backstroke. May be repeated, maximum four credits. (Pass/Fail. )

**BRNCOFIT 115 TAI CHI CHUAN (0-2-1)(F, S).** Movement series of 108 individual movements. Learn philosophy, theory, posture, and breathing of classical yan style Tai Chi Chuan long form. May be repeated, maximum of four credits. (Pass/Fail. )

**BRNCOFIT 116 MOUNTAIN WINTER SURVIVAL AND ECOLOGY (0-2-1)(F, S).** Skills necessary to survive an unexpected stay (emergency) in the mountain wilderness. Students furnish equipment and transportation. (Pass/Fail.)

**BRNCOFIT 118 PILATES (0-2-1)(F, S).** Designed to develop core muscles through systematic, dynamic, and rhythmic exercises that are relatively low intensity. May be repeated, maximum of four credits. (Pass/Fail.)

**BRNCOFIT 119 CYCLING (0-2-1)(F/S).** Learn proper cycling technique, bicycle mechanics, road safety, and tour planning. May be repeated, maximum eight credits. (Pass/Fail.)

**BRNCOFIT 120 ROCK CLIMBING (0-2-1)(F/S).** Learn the challenge of rock climbing. Basic knots, rappelling, belaying, and other climbing skills are taught. (Pass/Fail.)

**BRNCOFIT 122 CARDIO DANCE I (0-2-1)(SU).** Instruction and participation in dance fitness specifically designed to provide a fun cardiovascular workout. Classes are structured to build dance foundations for novice participants, while also challenging to developing seasoned dancers. May be repeated, maximum four credits. (Pass/Fail.)

**BRNCOFIT 124 SOCIAL DANCE I (0-2-1)(F, S).** Instruction and participation in dance fundamentals including waltz, polka, jitterbug, foxtrot, western swing, cha cha, samba, tango, folk, square, round dances, and mixers. May be repeated, maximum four credits. (Pass/Fail.)

**BRNCOFIT 125 WALKING FOR FITNESS (0-2-1)(F/S).** Designed for all ages and levels of fitness, emphasizing body mechanics to enhance a lifetime of walking enjoyment and cardiovascular improvement. Includes weekly goal-setting incentives and various walking experiences. May be repeated, maximum eight credits. (Pass/Fail.)

**BRNCOFIT 135 GOLF I (0-2-1)(F, S).** Instruction and participation in golf for development of fundamental skills, rules, and proper etiquette of the game. May be repeated, maximum four credits. (Pass/Fail.)

**BRNCOFIT 142 JUDO I (0-2-1)(F, S).** Principles and philosophy of judo and techniques of falling, throwing, and grappling. A 'Gi' is required. May be repeated, maximum four credits. (Pass/Fail.)

**BRNCOFIT 143 KARATE I (0-2-1)(F, S).** Presentation of techniques based on the theory of energy conservation. Exercises coordinating the mental and physical powers possessed by every individual. Special Karate attire (Gi) is required. (Pass/Fail.)

**BRNCOFIT 144 SELF-DEFENSE I (0-2-1)(F, S).** Defensive tactics of Aikido, Judo, and Karate. Coordination of mind and body and nonaggressive application of laws of gravity and force. Improvement of coordination and condition of the participant. A 'Gi' is required. May be repeated, maximum four credits. (Pass/Fail.)

**BRNCOFIT 145 TAEKWONDO (0-2-1)(F, S).** A martial art based on ancient Korean methods of self-defense. It is an Olympic sport with powerful kicks and punches that emphasizes continuous action, flexibility, endurance, skill, mental discipline and sportsmanship. May be repeated, maximum four credits. (Pass/Fail.)

**BRNCOFIT 149 SNOWBOARDING (0-2-1)(S).** Basic skills and techniques of snowboarding. Students furnish lift passes, equipment and transportation. May be repeated, maximum four credits. (Pass/Fail.)

**BRNCOFIT 151 ALPINE SKIING I (0-2-1)(S).** Basic skills and techniques of alpine skiing. Students furnish lift passes, equipment and transportation. May be repeated, maximum four credits. (Pass/Fail.)

**BRNCOFIT 153 CROSS COUNTRY SKIING I (0-2-1)(S).** Basic skills and techniques of cross country skiing. Students furnish lift passes, equipment and transportation. May be repeated, maximum four credits. (Pass/Fail.)

**BRNCOFIT 154 FLY CASTING AND STREAM STRATEGY I (0-2-1)(F/S).** Techniques of fly casting, including single and double haul methods. Presentation of insect, minnow, and terrestrial imitations. Techniques of catching and releasing of warm water, cold water, and anadromous fishes. Students furnish equipment and transportation. May be repeated, maximum four credits. (Pass/Fail.)

**BRNCOFIT 155 FLY TYING I (0-2-1)(F/S).** A practical orientation and application of fly tying skills for the beginning or experienced fly tier. The course

will focus on tying dry and wet flies, nymphs, bucktails, and streamers. May be repeated, maximum four credits. (Pass/Fail.)

**BRNCOFIT 159 MOUNTAIN BIKING (0-2-1)(F, S).** Equipment orientation, basic mechanics, maintenance, riding techniques, trip planning, and logistics are all part of the itinerary. Students must provide their own mountain bikes and helmets. May be repeated, maximum eight credits. (Pass/Fail.)

**BRNCOFIT 160 BICYCLE RACING (0-2-1)(S).** Basics of bicycle racing including racing strategies, conditioning, cross-training, and choosing races. May be repeated, maximum of two credits. (Pass/Fail.)

**BRNCOFIT 161 ULTIMATE (0-2-1)(F/S).** Development of skills, rules, and proper game etiquette in Ultimate: a limited-contact team field sport played with a flying disc (Frisbee). May be repeated for credit. (Pass/Fail.)

**BRNCOFIT 162 ADAPTED PHYSICAL EDUCATION I (0-2-1)(F, S).** Adaptive and corrective exercise programs. Course is structured to meet the special needs of the individual. May be repeated for credit. (Pass/Fail.)

**BRNCOFIT 163 GROUP EXERCISE ON YOUR OWN TIME (0-2-1)(F, S).** Participation in different group exercise classes including cardio, strength-based, and mind-body at the Student REC. Required attendance of 30 classes per semester, average two per week. May be repeated for a maximum of eight credits. (Pass/Fail.)

**BRNCOFIT 164 ONLINE PERSONAL FITNESS AND GOAL SETTING (0-2-1)(F/S).** A course designed for the motivated student who seeks an individualized introduction to physical fitness, including short-and long-term goal-setting incentives and motivational strategies to meet individual needs. May be repeated, maximum eight credits. (Pass/Fail.)

**BRNCOFIT 165 WEIGHT TRAINING I (0-2-1)(F, S, SU).** Instruction and participation in progressive body-building and conditioning exercises with resistance for development of beginning -skills and fitness. May be repeated, maximum eight credits. (Pass/Fail.)

**BRNCOFIT 166 YOGA: THE IYENGAR METHOD I (0-2-1)(F, S).** Using physical alignment as a starting point, Iyengar Yoga encourages the spread of intelligence throughout the body, the growth of self-awareness, and the practice of asanas as a form of "meditation in action." Iyengar Yoga develops strength, stamina, concentration, coordination, and flexibility for a profoundly intelligent, rewarding, and transformative experience. May be repeated, maximum four credits. (Pass/Fail.)

**BRNCOFIT 168 AEROBIC ACTIVITIES (0-2-1)(F, S).** Instruction and participation in various aerobic activities for the development of cardiovascular and neuromuscular fitness. Will include activities such as aerobic dance, jogging, and aerobic swimming (refer to class schedule for specifics). May be repeated for credit. (Pass/Fail.)

**BRNCOFIT 169 COUCH TO 10K (0-2-1)(F, S).** Designed for the beginning runner/walker who seeks individualized introduction to the run/walk method. Runners with little to no experience are provided the tools and motivation to be able to complete a 10K using the run/walk method by the end of the semester. May be repeated for credit. (Pass/Fail.)

**BRNCOFIT 173 TENNIS I (0-2-1)(F, S, SU).** Instruction and participation in tennis for development of fundamental skills, rules, and basic strategy. Students furnish rackets. May be repeated, maximum four credits. (Pass/Fail.)

**BRNCOFIT 181 BASKETBALL I (0-2-1)(F/S).** Instruction and participation in basketball for development of fundamental skills, rules, and basic team strategy. May be repeated, maximum four credits. (Pass/Fail.)

**BRNCOFIT 186 VOLLEYBALL I (0-2-1)(F, S).** Instruction and participation in volleyball for development of fundamental skills, rules, and basic team strategy. May be repeated, maximum four credits. (Pass/Fail.)

**BRNCOFIT 187 SOCCER I (0-2-1)(F).** Instruction and participation in soccer for development of fundamental skills, rules, and basic team strategy. May be repeated, maximum four credits. (Pass/Fail.)

**BRNCOFIT 211 KAYAKING II (0-2-1)(F/S).** Intermediate and advanced skills of kayaking. Covers stroke modifications, boat angle, boat lean, boat control,

## KINESIOLOGY

ferrying, eddy turns, peel outs, and reading water. (Pass/Fail. ) PREREQ: BRNCOFIT 111.

**BRNCOFIT 213 SWIMMING II (0-2-1)(F, S).** Instruction and participation in swimming for development of intermediate skills and techniques. Instruction in self-rescue skills, games, diving, and contests. Students must be able to swim 50 yards. May be repeated, maximum eight credits. (Pass/Fail. )

**BRNCOFIT 220 INTERMEDIATE ROCK CLIMBING (0-2-1)(F/S).** Instruction covers techniques for mid-fifth class climbing, protection and placements, belaying, and rappelling in a safe manner. Content will help improve skill level and develop leading ability on suitable terrain. May be repeated, maximum two credits. (Pass/Fail. ) PREREQ: BRNCOFIT 120 or PERM/INST.

**BRNCOFIT 222 CARDIO DANCE II (0-2-1).** Instruction and participation in dance fitness specifically designed to provide a fun cardiovascular workout. Classes are structured to build dance foundations for novice participants, while also challenging to developing seasoned dancers. May be repeated, maximum four credits. (Pass/Fail. )

**BRNCOFIT 224 SOCIAL DANCE II (0-2-1)(F, S).** Instruction and participation in social dance for development in the waltz, cha cha, fox trot, rhumba, tango, lindy, western swing, folk, square, and various novelty dances. May be repeated, maximum four credits. (Pass/Fail. )

**BRNCOFIT 235 GOLF II (0-2-1)(F, S, SU).** Instruction and participation in golf for development of intermediate skills and techniques. May be repeated, maximum four credits. (Pass/Fail. ) PREREQ: BRNCOFIT 135.

**BRNCOFIT 243 KARATE II (0-2-1)(F/S).** Instruction and participation in karate for development of intermediate skills and techniques. Special Karate attire (Gi) is required. May be repeated, maximum eight credits. (Pass/Fail. ) PREREQ: BRNCOFIT 143 or PERM/INST.

**BRNCOFIT 244 SELF-DEFENSE II (0-2-1)(F, S, SU).** Instruction and participation in advanced defensive tactics of Aikido, Judo, and Karate. Coordination of mind and body and nonaggressive application of laws of gravity and force. A 'Gi' is required. May be repeated, maximum four credits. (Pass/Fail. ) PREREQ: BRNCOFIT 144.

**BRNCOFIT 266 YOGA II (0-2-1)(F/S).** Basic poses will be refined, with emphasis on all standing poses. Inverted poses (head stand, plow, shoulder stand) will be introduced, as well as a more in-depth exploration of restorative yoga. May be repeated, maximum eight credits. (Pass/Fail. ) PREREQ: BRNCOFIT 166 or PERM/INST.

**BRNCOFIT 273 TENNIS II (0-2-1)(F, S, SU).** Instruction and participation in tennis for development of intermediate skills and techniques. Students furnish rackets. May be repeated, maximum four credits. (Pass/Fail. ) PREREQ: BRNCOFIT 173.

**BRNCOFIT 281 BASKETBALL II (0-2-1)(F/S).** Instruction and participation in basketball for development of intermediate skills and techniques. May be repeated, maximum four credits. (Pass/Fail. ) PREREQ: BRNCOFIT 181.

**BRNCOFIT 286 VOLLEYBALL II (0-2-1)(F, S).** Instruction and participation in volleyball for development of intermediate skills and techniques. May be repeated, maximum four credits. (Pass/Fail. ) PREREQ: BRNCOFIT 186.

**BRNCOFIT 290 CLUB SPORTS (0-2-1)(F, S).** Instruction and participation in club sports approved by Boise State Student Senate. Club advisor's approval required. May be repeated, maximum four credits. (Pass/Fail. )

**BRNCOFIT 291 VARSITY SPORTS (0-2-1)(F, S).** Instruction and participation in BSU Department of Athletics-approved sports. Coach's approval required. May be repeated, maximum four credits. (Pass/Fail. )

## KINES—Kinesiology

### Lower Division

**KINES 102 INSTRUCTIONAL TENNIS (0-3-1)(F/S).** Instruction and practice in tennis activities emphasizing concepts, fundamental skills, rules, strategies, teaching progressions and learning cues. Five-week course. PREREQ: Restricted to K-12 Physical Education majors.

**KINES 103 INSTRUCTIONAL INDOOR RACKET ACTIVITIES (0-3-1)(F/S).** Instruction and practice in badminton, pickle ball, and table tennis emphasizing fundamental skills, rules, strategies, teaching progressions and learning cues. Five-week course. PREREQ: Restricted to K-12 Physical Education majors.

**KINES 105 INSTRUCTIONAL YOGA AND PILATES (0-3-1)(F/S).** Instruction and practice in a variety of yoga postures and sequenced poses, along with different pilates techniques emphasizing theory and tradition, breathing, meditation, teaching progressions, and learning cues. Five-week course. PREREQ: Restricted to K-12 Physical Education majors.

**KINES 106 INSTRUCTIONAL DISC SPORT ACTIVITIES (0-3-1)(F/S).** Instruction and practice in a variety of disc sport activities, emphasizing fundamental concepts, techniques, and teaching progressions. Five-week course. PREREQ: Restricted to K-12 Physical Education majors.

**KINES 107 INSTRUCTIONAL GYMNASTICS (0-3-1)(F/S).** Instruction and practice in tumbling and gymnastic activities, emphasizing fundamental skills, safety and spotting techniques, teaching progressions, and learning cues. Five-week course. PREREQ: Restricted to K-12 Physical Education majors.

**KINES 109 WATER SAFETY INSTRUCTOR (0-2-1)(F/S).** Designed to teach skills necessary to become an American Red Cross certified Water Safety Instructor. Strong swimming skills recommended. Special fee required.

**KINES 110 INSTRUCTIONAL VOLLEYBALL (0-3-1)(F/S).** Instruction and practice in volleyball activities emphasizing fundamental skills, rules, strategies, teaching progressions and learning cues. Five-week course. PREREQ: Restricted to K-12 Physical Education majors.

**KINES 111 INSTRUCTIONAL BASKETBALL (0-3-1)(F/S).** Instruction and practice in basketball activities emphasizing fundamental skills, rules, strategies, teaching progressions and learning cues. Five-week course. PREREQ: Restricted to K-12 Physical Education majors.

**KINES 113 INSTRUCTIONAL GOLF (0-3-1)(F/S).** Instruction and practice in golf activities emphasizing concepts, fundamental skills, rules, etiquette, strategies, teaching progressions and learning cues. Five-week course. PREREQ: Restricted to K-12 Physical Education majors.

**KINES 114 INSTRUCTIONAL OUTDOOR EDUCATION (0-3-1)(F/S).** Instruction and practice in a variety of wilderness sports and outdoor recreation activities, emphasizing safety, fundamental skills, teaching progressions and learning cues. Five-week course. PREREQ: Restricted to K-12 Physical Education majors.

**KINES 115 INSTRUCTIONAL RECREATIONAL GAMES (0-3-1)(F/S).** Instruction and practice in flag football, softball, and ultimate Frisbee, emphasizing fundamental skills, rules, strategies, teaching progressions, and learning cues. Five-week course. PREREQ: Restricted to K-12 Physical Education majors.

**KINES 116 INSTRUCTIONAL RHYTHMIC SKILLS/DANCE (0-3-1)(F/S).** Instruction and practice in rhythmic skills and dance, emphasizing fundamental skills, teaching progressions and learning cues. Five-week course. PREREQ: Restricted to K-12 Physical Education majors.

**KINES 117 INSTRUCTIONAL SOCCER (0-3-1)(F/S).** Instruction and practice in soccer activities, emphasizing fundamental skills, rules, strategies, teaching progressions, and learning cues. Five-week course. PREREQ: Restricted to K-12 Physical Education majors.

**KINES 121 TAPING AND WRAPPING TECHNIQUES IN ATHLETIC TRAINING (0-2-1)(F/S).** Instructs students in a variety of wrapping and taping

procedures used in the field of athletic training as forms of external support. A prerequisite for admission to the Athletic Training Education Program.

**KINES 140 PERSONAL HEALTH (3-0-3)(F/S).** Covers nutrition, diseases, health needs, services, drugs, family living, and personality structure and development. Enhances student adjustment toward effective functioning in a changing environment.

**KINES 150 (HLTH 150) RESIDENTIAL COLLEGE: HEALTH PROFESSIONS (1-0-1)(F).** Required course for students residing in the University Housing Health Professions Residential College. Students learn about the campus and community resources, explore various health-related professions, are civically engaged, and participate in service projects. May be repeated for credit. PREREQ: PERM/INST.

**KINES 181 INTRODUCTION TO SPORT COACHING (3-0-3)(F/S).** An exploration of the principles, issues, and responsibilities related to the practice of sport coaching including the role of sport in society and leadership in sport settings comprising philosophy, leadership styles, communication, group dynamics, and teaching and instruction.

**KINES 201 CULTURAL, HISTORICAL, AND PHILOSOPHICAL DIMENSIONS OF PHYSICAL ACTIVITY (3-0-3)(F/S).** A study of sociocultural, historical, and philosophical factors and issues that influence attitudes about and practices of physical activity. PREREQ: ENGL 101.

**KINES 220 INTRODUCTION TO ATHLETIC INJURIES (3-0-3)(F/S).** A survey course introducing the principles of care and prevention of sport induced injury. Emphasis will be on identification and differentiation of minor and major trauma related to sports participation. A prerequisite for admission to the Athletic Training Education Program. PREREQ: BIOL 107 or BIOL 227 or PERM/INST.

**KINES 221 ATHLETIC TRAINING CLINICAL INSTRUCTION I (0-8-2)(F).** Clinical instruction in first-aid/CPR procedures, acute care, regional assessment and documentation procedures for musculoskeletal injuries, neurologic injuries, diseases commonly incurred by athletes, and supervised clinical experiences as delineated by the Commission on Accreditation of Athletic Training Education (CAATE). PREREQ: Admission to the clinical instruction component of the Athletic Training Education Program. COREQ: KINES 324.

**KINES 222 ATHLETIC TRAINING CLINICAL INSTRUCTION II (0-8-2)(S).** Clinical instruction in acute-care procedures, specialized taping and wrapping techniques, splinting, bracing, and ambulatory techniques, continuation of musculoskeletal assessment techniques, environmental conditions, head and neck injuries, and supervised clinical experiences as delineated by CAATE. PREREQ: KINES 221.

**KINES 242 HUMAN SEXUALITY (3-0-3)(F).** The study of individual sexuality, emphasizing both physiological and psychological aspects. Topics include sexual anatomy and physiology, sexual response cycle, childbirth, contraception, sexual dysfunction, sex role development, and sexual deviation. Cross-cultural values will be examined and a values clarification unit will be included.

**KINES 250 (HLTH 250) RESIDENTIAL COLLEGE: HEALTH PROFESSIONS (1-0-1)(S).** Required course for students residing in the University Housing Health Professions Residential College. Students learn about the campus and community resources, explore various health-related professions, are civically engaged, and participate in service projects. May be repeated for credit. PREREQ: PERM/INST.

**KINES 251 INTRODUCTION TO TEACHING PHYSICAL EDUCATION (3-0-3)(F/S).** Foundations in the history and philosophy of physical education and fundamentals in pedagogical strategies and theory. Basic tenets of sound teaching will be discussed and applied. PREREQ: Restricted to Kinesiology majors.

**KINES 270 APPLIED ANATOMY (3-0-3)(F/S).** Investigation of human osteology, myology, anthropology, and neurology as they relate to movement. Emphasis is on application of the knowledge of human anatomy to the principles underlying human movement. PREREQ: BIOL 107 or BIOL 227.

**KINES 293 INTERNSHIP (1-3 credits)(F/S).** Practicum field experience in physical education-related areas. Practical experience utilizing theory and practice of the assigned activity in various settings. Required in some options. PREREQ: PERM/INST.

#### Upper Division

**KINES 301 STATISTICS, MEASUREMENT AND EVALUATION CONCEPTS (3-0-3)(F/S).** Scientific reasoning approaches will be presented that enable students to make reliable and valid judgments based on empirical data. Topics include basic descriptive, correlational and inferential statistics, basic measurement theory of reliability, validity, and objectivity, with emphasis on these statistics and theories associated with the assessment of health and human performance. PREREQ: MATH 143 or MATH 170.

**KINES 305 ADAPTED PHYSICAL EDUCATION (3-0-3)(F, S).** Course is designed to acquaint physical educators with the unique needs of the disabled. Emphasis will be on planning activities, games, sports, and exercise programs that will contribute to the special student's developmental health and wellness. PREREQ: KINES 140 and KINES 201, or PERM/INST.

**KINES 321 ATHLETIC TRAINING CLINICAL INSTRUCTION III (0-11-3)(F).** Clinical instruction involving indications, contraindications, and clinical application of therapeutic modalities utilized by Athletic Trainers, basic rehabilitative protocols for commonly injured joints, and supervised clinical experiences as delineated by CAATE. PREREQ: KINES 222. COREQ: KINES 326.

**KINES 322 ATHLETIC TRAINING CLINICAL INSTRUCTION IV (0-11-3)(S).** Clinical instruction in rehabilitative exercise, techniques of reconditioning athletic injuries, and supervised clinical experiences as delineated by CAATE. PREREQ: KINES 321. COREQ: KINES 424.

**KINES 324 INJURY EVALUATION (4-0-4)(F).** Instruction in theory and application of basic physical examination techniques of traumatic conditions and illnesses resulting from sports participation. PREREQ: Admission to the Athletic Training Education Program. COREQ: KINES 221.

**KINES 326 MODALITIES IN ATHLETIC TRAINING (3-0-3)(F).** Instruction in theory and application, through clinical observations, of various therapeutic modalities for care and treatment of athletic injuries, emphasizing cryotherapy, thermal therapy, manual therapy, and electrical modalities. PREREQ: Admission to the Athletic Training Education Program. COREQ: KINES 321.

**KINES 330 EXERCISE PHYSIOLOGY AND LAB (3-2-4)(F, S).** Instruction and laboratory applications in the physiological and biochemical changes accompanying exercise and training with emphasis on bioenergetics, metabolism, and the muscular, cardiovascular, and pulmonary systems. PREREQ: CHEM 101 or CHEM 111, KINES 140, KINES 201, and KINES 270, and 3.0 GPA, or PERM/INST.

**KINES 332 NUTRITION IN EXERCISE AND SPORT (3-0-3)(F/S).** An integration of exercise physiology and nutrition, this course will investigate nutrition for health, exercise, and athletic performance benefits. PRE/COREQ: KINES 330.

**KINES 351 ELEMENTARY SCHOOL PHYSICAL EDUCATION METHODS (3-0-3)(F/S).** Instruction in methods of teaching elementary school physical education emphasizing movement needs, analysis, and development of skills, and practical application. Must be completed with a C or higher. PREREQ: Admission to K-12 Physical Education Program, KINES 251 and Admission to Teacher Education or Professional Year. COREQ: KINES 352 and ED-CIFS 203.

**KINES 352 FIELD EXPERIENCE FOR ELEMENTARY SCHOOL PHYSICAL EDUCATION METHODS (0-4-1)(F/S).** Sixty-hour teaching experience at an elementary school. Observation of teaching/learning process and demonstration of teaching competence in a classroom setting. (Pass/Fail.) COREQ: KINES 351 and ED-CIFS 203.

**KINES 355 ELEMENTARY SCHOOL HEALTH AND PHYSICAL EDUCATION CURRICULUM AND INSTRUCTION (1-3 credits)(F/S).** Required for elementary education majors. Planning, organization, and

## KINESIOLOGY

management techniques for teaching elementary school health and physical education. The health content focuses on issues, trends, practices, individual/social health problems, and topic sequencing, while the physical education portion emphasizes movement needs, skill analysis/development, and activity progressions. Elementary education majors also seeking a health teaching endorsement will take the PE-only option (1-credit). Elementary health will be fulfilled in KINES 445 as part of the health teaching endorsement. Students not seeking a health teaching endorsement will take the full 3-credit course. PREREQ: admission to teacher education.

**KINES 360 PSYCHOLOGY OF SPORT COACHING (2-0-2)(F/S).** An examination of psychological aspects of the coaching profession including concepts focused on motivation, communication, stress and anxiety, and team dynamics and cohesion. PREREQ: KINES 181.

**KINES 361 CONDITIONING PRINCIPLES FOR SPORT (2-0-2)(F/S).** Best practices and developmental considerations on training and strength conditioning procedures for children, adolescents, and young adults. Emphasis on safety factors, along with planning and administration of training programs. PREREQ: KINES 181.

**KINES 362 SPORT COACHING METHODS AND ADMINISTRATION (3-0-3)(F/S).** Instructional methods of sport coaching in diverse contexts with an emphasis on sport pedagogy and skill acquisition, planning, leadership development, and administration. PREREQ: KINES 181.

**KINES 363 EXERCISE PSYCHOLOGY (3-0-3)(F, S).** Issues related to the differentiation between physical activity and exercise, benefits and determinates of physical activity, and models for involvement in physical activity as well as theories of change. Focus on cognitive and social psychological perspectives. PREREQ: KINES 140 and KINES 201, and PSYC 101, or PERM/INST.

**KINES 365 SOCIAL PSYCHOLOGY OF SPORT AND PHYSICAL ACTIVITY (3-0-3)(F).** Overview of fundamental concepts, principles, and theories related to the psychology of human behavior in sport and exercise settings. Emphasis on understanding how competition, feedback and reinforcement, personality, motivation, anxiety, and sport injuries affect performance and psychological make-up of participants. PREREQ: KINES 140, KINES 201, and PSYC 101, or PERM/INST.

**KINES 370 BIOMECHANICS AND LAB (3-2-4)(F, S).** Instruction and laboratory applications in anatomical and mechanical considerations applied to human motion in sport and exercise. PREREQ: KINES 140 and KINES 201; MATH 143, MATH 144, or MATH 170; PHYS 111 or PHYS 211; and 3.0 GPA, or PERM/INST.

**KINES 372 APPLIED PRINCIPLES OF BIOMECHANICS (3-0-3)(F/S).** Introduction to basic concepts of biomechanics and application to sport and physical activity. PREREQ: MATH 143.

**KINES 375 HUMAN GROWTH AND MOTOR LEARNING AND LAB (3-2-4)(F, S).** Instruction and laboratory applications designed to provide the student with an understanding of human growth, movement development, motor learning, and control. Application to skilled behavior is emphasized. PREREQ: KINES 140, KINES 201, KINES 270, and 3.0 GPA, or PERM/INST.

**KINES 403 (ZOO 403) HEAD AND NECK ANATOMY (2-2-3)(F, S).** Use of human cadavers to study dissections of head and neck with emphasis on clinical relevance. Integument, osteology, myology, circulatory systems, lymphatics, oral and dental tissues, neuroanatomy, cranial nerves, general innervation, and salivary glands. May be taken for KINES or ZOO credit but not both. PREREQ: BIOL 191-192 or BIOL 227-228 or PERM/INST.

**KINES 416 NEUROMECHANICS (3-0-3)(F/S).** Explores the neural aspects of human movement. Topics include neuroanatomy, voluntary and involuntary motor control, neural aspects of motor behaviors and systems-level functions and dysfunctions of the nervous system. PREREQ: KINES 370 or KINES 375 or PERM/INST.

**KINES 421 ATHLETIC TRAINING CLINICAL INSTRUCTION V (0-11-3)(F).** Clinical instruction in the evaluation of general medical conditions including,

illness, cardiopulmonary, psycho-social concerns, and supervised clinical experiences as delineated by CAATE. PREREQ: KINES 322.

**KINES 422 ATHLETIC TRAINING CLINICAL INSTRUCTION VI (0-11-3)(S).** Clinical instruction review in the organization and administration procedures and techniques of prevention, evaluation, treatment of common injuries/illnesses within Athletic Training, and supervised clinical experiences. PREREQ: KINES 421.

**KINES 424 THEORY AND APPLICATION OF THERAPEUTIC EXERCISE (2-2-3)(S)(Even years).** Introduction to the theory and application of physical exercise for the treatment of musculoskeletal disorders in athletics. Topics will include passive, assistive, active, and resistive forms of exercise, as well as the current therapeutic modalities available. PREREQ: Admission to the Athletic Training Education Program. COREQ: KINES 322.

**KINES 425 LABORATORY TECHNIQUES IN BIOMECHANICS (3-0-3)(S)(FF).** An introduction to the analysis techniques used to study the mechanics of human motion. Topics include cinematography, videography, force transducers, electromyography and computer analysis techniques. PREREQ: KINES 370 or PERM/INST.

**KINES 426 ORGANIZATION AND ADMINISTRATION OF ATHLETIC TRAINING (3-0-3)(S)(Odd years).** Instruction in the principles of organization and administration of Athletic Training services at the interscholastic, private, and professional levels. PREREQ: Admission to the Athletic Training Education Program.

**KINES 427 ATHLETIC THERAPY (3-0-3)(F/S).** Theory and application of human movement, corrective exercise, and physiological recovery strategies to prevent or reduce athletic related injuries. Emphasis on system- and technology-based solutions that promote optimal human performance. Scientific evidence supporting design and implementation of injury prevention programs are discussed. PREREQ: KINES 220, KINES 270.

**KINES 430 PHYSICAL ACTIVITY FOR SPECIAL POPULATIONS AND LAB (2-2-3)(F, S).** Impact and practical applications of physical activity and exercise on children, older adults, and individuals with various chronic conditions and disabilities. Specific considerations include general exercise recommendations, exercise facility design, particular training equipment, and risk factor modification and contraindications to exercise. PREREQ: Junior standing and KINES 330, or PERM/INST.

**KINES 432 CONDITIONING PROCEDURES AND LAB (2-2-3)(F, S)(FF).** Instruction and laboratory applications to conditioning procedures with emphasis on program planning, objectives, exercise analysis, and prescription. PREREQ: KINES 330 and 3.0 GPA, or PERM/INST.

**KINES 436 EXERCISE TESTING AND PRESCRIPTION AND LAB (2-2-3)(F, S).** Instruction and laboratory applications in current procedures for clinical exercise testing including patient screening, pre-test procedures, basic electrocardiography, submaximal assessments, symptom limited graded exercise testing, test result interpretation and exercise prescription. PREREQ: KINES 330 and 3.0 GPA, or PERM/INST.

**KINES 438 QUALITATIVE ANALYSIS OF HUMAN MOVEMENT (3-0-3)(F/S).** An integrated approach to qualitative analysis involving the systematic and critical observation of motor skill performance. This course utilizes basic video analysis and motion capture tools. PREREQ: KINES 375, KINES 376, KINES 370, and KINES 371.

**KINES 443 MEDICAL ASPECTS OF EXERCISE (3-0-3)(F/S).** Explores the role of exercise and physical activity in the prevention and treatment of chronic disease. Focusing on pathophysiology, exercise responses, and benefits of exercise specific to many of the most prevalent chronic diseases impacting our society. PREREQ: KINES 330 or HLTH 300 or PERM/INST.

**KINES 445 ELEMENTARY AND SECONDARY SCHOOL HEALTH METHODS AND ADMINISTRATION (3-0-3)(S).** Emphasis is placed on school health education instructional methods, health literacy strategies, and current classroom administrative practices at the elementary and secondary level.



Field experience is included. PREREQ: admission to teacher education or PERM/INST.

**KINES 451 SECONDARY SCHOOL PHYSICAL EDUCATION METHODS (3-0-3)(F/S).** Instruction and practice in developing effective styles, techniques, and reflective skills in class management, organization, methodology, observation, evaluation for teaching Physical Education at the secondary (6-12) level. Must be completed with a C or higher. PREREQ: Admission to K-12 Physical Education Program, KINES 251, and Admission to Teacher Education or the Professional Year. COREQ: KINES 452.

**KINES 452 FIELD EXPERIENCE FOR SECONDARY SCHOOL PHYSICAL EDUCATION METHODS (0-4-1)(F/S).** Sixty-hour teaching experience at a secondary school. Observation of teaching/learning process and demonstration of teaching competence in a classroom setting. (Pass/Fail.) COREQ: KINES 451.

**KINES 455 ORGANIZATION AND ADMINISTRATION OF PHYSICAL EDUCATION (2-0-2)(F/S).** Instruction in organization and administration of physical education and athletic programs. Emphasis on the role of physical education and athletics in the total education program. Required of all physical education teaching majors. PREREQ: Junior standing and admission to the Professional Year.

**KINES 458 CURRICULUM DESIGN IN PHYSICAL EDUCATION (3-0-3)(F)(FF).** The planning of a school physical education program including the

activity selection, sequencing unit development, program model, and evaluation. PRE/COREQ: KINES 351 or KINES 451.

**KINES 460 PROFESSIONAL YEAR ELEMENTARY TEACHING EXPERIENCE (0-15-7)(F, S).** Supervised student teaching in an elementary school. Students are placed with a master physical education teacher for one half-semester (full-time) under the supervision of university faculty. Attendance at seminars is required. (Pass/Fail.) PREREQ: Admission to K-12 Physical Education Program, Admission to Professional Year. COREQ: KINES 461.

**KINES 461 PROFESSIONAL YEAR SECONDARY TEACHING EXPERIENCE (0-15-7)(F, S).** Supervised student teaching in either a junior or senior high school. Students are placed with a master physical education teacher for one half-semester (full-time) under the supervision of university faculty. Attendance at seminars is required. (Pass/Fail.) PREREQ: Admission to K-12 Physical Education Program, Admission to Professional Year. COREQ: KINES 460.

**KINES 482 RESEARCH METHODS IN HEALTH (3-0-3)(F/S).** Design of experiments, methods of analysis, interpretation of results, and use of research to support evidence-based practice. PREREQ: ENGL 102, MATH 254 or PSYC 295 or SOC 310 or KINES 301 or PERM/INST.

**KINES 493 INTERNSHIP IN KINESIOLOGY (1-6 credits)(F/S).** Practical field experience in emphasis areas of Kinesiology. Opportunity to apply knowledge and theory learned in the classroom to the practical setting. Required in some areas of emphasis. Areas of emphasis may maintain policies applicable to this internship. May be repeated for credit, maximum of six credits. PREREQ: Junior standing and PERM/INST.

# Leadership and Human Relations Program

College of Innovation and Design

Albertson's Library, Room 201G

(208) 426-2975 (phone)

hreeeder@boisestate.edu (email)

<https://www.boisestate.edu/leadershipcertificate/> (website)

Program Director: Heidi Reeder

## Certificates Offered

- Certificate in Applied Leadership: Growing into a High-Impact Leader
- Certificate in Leadership and Human Relations

## Programs Statement

The Certificate in Leadership and Human Relations is an on-campus, 16-credit program designed for students who are interested in dynamic experiences and projects that allow them to practice new leadership skills and gain immediate feedback from a supportive community of faculty and peers. Integrating the fields of leadership and personal development, the certificate program approaches leadership as a personal and relational process. Regardless of academic major, students will be primed to be high-integrity change agents in their discipline and in the world.

The Certificate in Applied Leadership: Growing into a High-Impact Leader is a fully online, 12-credit program designed for non-traditional students or working adults who want to augment their current professional and leadership skills. Each course is packed with perspectives and activities students can immediately put to use where they work and live. The primary focus of this program is "you," and is best suited for students interested in self-reflection and professional growth. Regardless of academic major, individuals will gain deep insight into the challenges facing today's leaders, will hone their own leadership style to address these challenges, and will connect with like-minded people.

## Program Requirements

| Leadership and Human Relations Certificate   |         |
|--|---------|
| Course Number and Title  | Credits |
| LEAD 325 Foundations of Leadership   | 3       |
| LEAD 326 The Practice of Leadership  | 3       |
| LEAD 327 Relational Leadership   | 3       |
| Select from the following courses:<br>CONFLICT/COMM/SOC 390 Conflict Management<br>CONFLICT 401 Negotiation<br>CONFLICT 405 Culture and Conflict<br>LEAD 225 Civic Engagement and Leadership<br>LEAD 480 Studies in Leadership<br>MDS 410 Case Studies in Leadership | 6       |
| LEAD 495 Leadership Experience   | 1       |
| <i>Total</i>   | 16      |
| Students must complete all 16 credits with a C or above.<br>Courses may be taken for credit towards Applied Leadership: Growing into a High-Impact Leader Certificate or the Leadership and Human Relations Certificate, but not both.                               |         |

| Applied Leadership:<br>Growing into a High-Impact Leader Certificate   |         |
|--|---------|
| Course Number and Title  | Credits |
| LEAD 325 Foundations of Leadership   | 3       |
| LEAD 326 The Practice of Leadership  | 3       |
| LEAD 490 Capstone in Leadership  | 3       |
| MDS 410 Case Studies in Leadership   | 3       |
| <i>Total</i>   | 12      |
| Students must complete all 12 credits with a C or above.<br>Courses may be taken for credit towards Applied Leadership: Growing into a High-Impact Leader Certificate or the Leadership and Human Relations Certificate, but not both. |         |

## Course Offerings

### LEAD—Leadership and Human Relations

#### Lower Division

#### LEAD 225 CIVIC ENGAGEMENT AND LEADERSHIP (1-3 credits)(S).

Provides students with opportunities to learn about political and social community dynamics while becoming catalysts for collaborative social change. Students will integrate service, education, and reflection to create meaningful change in communities. The culmination of this learning will take place on an intensive weeklong service trip. Students must be accepted into alternative break program prior to registration. May be repeated for a maximum of 4 credits. (Pass/Fail. ) PREREQ: PERM/INST.

#### Upper Division

#### LEAD 325 FOUNDATIONS OF LEADERSHIP (3-0-3)(F, S). An

introduction to concepts, frameworks, ideas and beliefs related to leadership. Intended to inspire students to engage in deeper self-exploration about why they lead and how they can begin to serve as a catalyst for progress in their relationships, communities and organizations. PREREQ: sophomore standing.

#### LEAD 326 THE PRACTICE OF LEADERSHIP (3-0-3)(F, S). An

exploration of selected concepts, frameworks, ideas and beliefs related to the art and practice of leadership. The course is intended to help students move from knowledge and awareness, to applying their learning in various contexts. PREREQ: sophomore standing, LEAD 325.

#### LEAD 327 RELATIONAL LEADERSHIP (3-0-3)(F, S). The purpose of this

course is to enhance the critical leadership component of working effectively with others. Tools will be provided for developing the internal qualities and the external behaviors that lead to both individual and team success. The completion of LEAD 325 is recommended. PREREQ: sophomore standing. COREQ: LEAD 325.

#### LEAD 480 STUDIES IN LEADERSHIP (3-0-3)(F/S). Examination of

special topics and skills in leadership. Content varies from semester to semester. Subjects may include leading groups, leading change, gender and leadership, creativity and leadership, etc. Course may be repeated for credit. PREREQ: sophomore standing.

#### LEAD 490 CAPSTONE IN LEADERSHIP (3-0-3)(F, S, SU). This

experiential course offers students an opportunity to practice the skills and perspectives they have learned in previous leadership courses. Students will select a team-based community or business project to organize and implement as a vehicle to demonstrate and reflect upon leadership principles. The completion of LEAD 326 is recommended. PREREQ: LEAD 325, MDS 410, and sophomore standing. COREQ: LEAD 326.

#### LEAD 495 LEADERSHIP EXPERIENCE (0-3-1)(F, S). This experiential

course offers students an opportunity to practice the skills and perspectives they have learned in previous leadership courses. Students will select a team-based community or business project to organize and implement as a vehicle to demonstrate and reflect upon leadership principles. The completion of LEAD 326 is recommended. PREREQ: LEAD 325, LEAD 327, and sophomore standing. COREQ: LEAD 326.

## Library Research

*Albertsons Library*

(208) 426-3559 (phone)

libraryinstruction@boisestate.edu (email)

<https://library.boisestate.edu> (website)

### Course Offerings

#### LIBR—Library Research

##### Lower Division

**LIBR 106 LIBRARY RESEARCH SKILLS I (0-2-1)(F/S)**. Practical research skills with a focus on thinking critically about information. At the end of the course, students will know how to develop a research question, locate and evaluate information in a variety of types, and understand the basics of information ethics.

**LIBR 206 LIBRARY RESEARCH SKILLS II (2-0-2)(F/S)**. Advanced research skills that will help conduct high-level, scholarly research to produce an academic paper, while also developing an understanding of ethical research practices and plagiarism. Develop and deliver a presentation on their paper and be able to discuss their research methods. PREREQ: LIBR 106 or PERM/INST.

## Department of Literacy, Language, and Culture

*College of Education*

Education Building, Room 528

(208) 426-2862 (phone)

Advising Office, Room 503

(208) 426-3206 (phone)

(208) 334-2337 (fax)

<https://www.boisestate.edu/education-llc/> (website)

*Chair:* TBD. *Professors:* Boothe, Peralta, Rodriguez. *Associate Professor:* Son. *Assistant Professors:* Carter, Deng, Guo, Wright. *Clinical Associate Professor:* Mulhern. *Clinical Instructors:* Cort, Williams.

### Degrees Offered

- Bachelor of Arts in Elementary Education, TESOL

### Department Statement

The Department of Literacy, Language, and Culture offers courses that reflect a balanced approach to literacy learning and prepares educational professionals to work effectively with diverse student populations in K-8 general, bilingual, and English as a second language (ESL) classrooms. The coursework prepares candidates to apply foundational knowledge from literacy, linguistics and language acquisition theory and to develop, implement, and manage culturally and linguistically responsive instruction, performance tasks, and assessments in the K-8 classroom. The department offers one undergraduate degree and three endorsements that can be earned along with certification in elementary education K-8 (see Endorsement boxes below).

The department is also a service department to undergraduate programs in elementary and secondary education in that we provide specific literacy courses required of all students seeking teaching certification. For students planning to earn an endorsement in Literacy, please see the guidelines that follow.

The Elementary Education, TESOL degree prepares candidates to teach English language learners (ELLs) in various contexts, including general education or ESL classrooms; they will often work collaboratively with other teachers to support ELLs. Graduates earn credits toward an elementary certification (K-8) and an endorsement in English as a Second Language (K-12). Four semester credit hours in a modern language other than English are required. For majors other than Elementary Education, TESOL, this endorsement can be added to elementary or secondary certification.

The Bilingual Education (K-12) Endorsement prepares candidates to teach in a bilingual (Spanish-English) program. Spanish language proficiency is developed through Spanish classes; students are required to pass the ACTFL proficiency assessment at an advanced level.

The Literacy Endorsement provides enhanced depth and breadth of coursework in reading and language arts. The courses listed here represent suggestions that fulfill the twenty-three (23) credit endorsement in seven areas required by Idaho (See degree box below). Students must earn a B (80%) or higher in each course.

Note: Refer to the Department of Curriculum, Instruction, and Foundational Studies for complete requirements toward admission to elementary and secondary teacher education.

# LITERACY, LANGUAGE, AND CULTURE

## Degree Requirements

| Elementary Education TESOL Bachelor of Arts  |                |
|--|----------------|
| <i>Course Number and Title</i>   | <i>Credits</i> |
| University Foundations requirements indicated in bold. See page 48 for details and lists of approved courses.  |                |
| <b>UF 100</b> Foundations of Intellectual Life   | 3              |
| <b>UF 200</b> Foundations of Ethics and Diversity  | 3              |
| <b>FW ENGL 101</b> Writing and Rhetoric I  | 3              |
| <b>FW ENGL 102</b> Writing and Rhetoric II   | 3              |
| <b>FC</b> Foundations of Oral Communication  | 3              |
| <b>FM MATH 257</b> Geometry and Measurement for Teachers   | 4              |
| <b>FN</b> Foundations of Natural, Physical, & Applied Sciences course with lab   | 4              |
| <b>FN</b> Foundations of Natural, Physical, & Applied Sciences course in a second field  | 3-4            |
| <b>FA</b> Foundations of Arts course   | 3              |
| <b>FH</b> Foundations of Humanities course in World Language   | 4              |
| <b>FS ED-CIFS 201</b> Education, Schooling, and Society  | 3              |
| <b>FS HIST 111</b> or <b>HIST 112</b> United States History I, II  | 3              |
| <b>ART 321</b> Elementary School Art Methods or <b>COUN 301</b> Guidance and Counseling in Schools or <b>MUS 374</b> Music Fundamentals & Methods for the Elementary Classroom Teacher | 3              |
| <b>ED-CIFS 203</b> Child and Educational Psychology  | 3              |
| <b>ED-CIFS 331</b> Elementary Mathematics Curric & Instruction   | 3              |
| <b>ED-CIFS 333</b> Elementary Science Curriculum & Instruction   | 3              |
| <b>ED-CIFS 430</b> Fundamental Frameworks for Supporting Teaching & Learning   | 4              |
| <b>ED-ESP 250</b> Exceptionality in the Schools  | 3              |
| <b>ED-LLC 200</b> Cultural Diversity in the Schools  | 3              |
| <b>ED-LLC 205</b> Migration Studies in Education   | 3              |
| <b>ED-LLC 300</b> Foundations of Linguistics & Language Acquisition  | 3              |
| <b>ED-LLC 303</b> Methods in Teaching Content to Bilingual and English Language Learners   | 3              |
| <b>ED-LLC 306</b> Field Experience with Bilingual or English Language Learners   | 1              |
| <b>ED-LLC 331</b> Assessment of Bilingual and English Language Learners  | 3              |
| <b>ED-LLC 340</b> Idaho Comprehensive Literacy   | 4              |
| <b>ED-LLC 345</b> Writing Process and Assessment   | 3              |
| <b>FF ED-LLC 400</b> Constructing a Professional Portfolio   | 1              |
| <b>ED-LLC 442</b> Integrated Disciplinary Literacy in the Social Sciences  | 3              |
| <b>ED-LLC 460</b> Professional Year I  | 5              |
| <b>ED-LLC 461</b> Professional Year II: Bilingual/ESL Education  | 6              |
| <b>ED-LLC 462</b> Professional Year III: Bilingual/ESL Education   | 6              |
| <b>EDTECH 202</b> Teaching and Learning in a Digital Age   | 3              |
| <b>KINES 355</b> Elem School Health & PE Curriculum & Inst   | 3              |
| <b>MATH 157</b> Number and Operations for Teachers   | 4              |
| Electives to total 120 credits   | 7-8            |
| <b>Total</b>   | <b>120</b>     |

Completion of this degree as outlined in this catalog qualifies students to receive a Standard Elementary Teaching Certificate from the State of Idaho, valid in K-8, thus enabling them to teach in a general elementary classroom. The certificate will also be endorsed for English as a New Language, K-12, thus qualifying students to work in ESL classrooms also. Students must also pass the ESOL Praxis (5362).

| Bilingual Spanish Education (K-12) Teaching Endorsement   |                |
|---|----------------|
| <i>Course Number and Title</i>  | <i>Credits</i> |
| <b>ED-LLC 200</b> Cultural Diversity in the Schools   | 3              |
| <b>ED-LLC 300</b> Foundations of Linguistics and Language Acquisition   | 3              |
| <b>ED-LLC 302</b> Developing Biliteracy in Bilingual Classroom  | 3              |
| <b>ED-LLC 303</b> Methods in Teaching Content to Bilingual and English Language Learners  | 3              |
| <b>ED-LLC 306</b> Field Experience with Bilingual or English Language Learners or<br>Contact advisor about substitution of Internship/<br>student teaching placement in Bilingual Classroom                       | 1              |
| <b>ED-LLC 331</b> Assessment of Bilingual and English Language Learners   | 3              |
| Upper-division Spanish including writing and literature   | 6              |
| <b>Total</b>  | <b>22</b>      |
| Students also must demonstrate advanced proficiency in a foreign language according to the American Council for Teachers of Foreign Languages (ACTFL) guidelines. Students must also pass the ESOL Praxis (5362). |                |

| English as a Second Language Teaching Endorsement   |                |
|---|----------------|
| <i>Course Number and Title</i>  | <i>Credits</i> |
| <b>ED-LLC 200</b> Cultural Diversity in the Schools   | 3              |
| <b>ED-LLC 205</b> Migration Studies in Education  | 3              |
| <b>ED-LLC 300</b> Foundations of Linguistics and Language Acquisition   | 3              |
| <b>ED-LLC 303</b> Methods in Teaching Content to Bilingual and English Language Learners  | 3              |
| <b>ED-LLC 306</b> Field Experience with Bilingual or English Language Learners or<br>Contact advisor about substitution of internship/student<br>teaching placement in ESL Classroom or GenEd<br>classroom with high number of ELLs | 1              |
| <b>ED-LLC 331</b> Assessment of Bilingual and English Language Learners   | 3              |
| Modern Language   | 4              |
| <b>Total</b>  | <b>20</b>      |
| Students must also pass the ESOL Praxis (5362). For more information on becoming a teacher please contact the Office of Teacher Education.  |                |

| Literacy Endorsement: K-12  |                |
|---|----------------|
| <i>Course Number and Title</i>  | <i>Credits</i> |
| <b>Area I: Foundations of Literacy</b><br><b>ED-LLC 340</b> Idaho Comprehensive Literacy  | 4              |
| <b>Area II: Reading in the Content Area</b><br><b>ED-LLC 442</b> Integrated Disciplinary Literacy in the Social Sciences<br><b>ED-LLC 444</b> Content Literacy for Secondary Students | 3              |
| <b>Area III: Corrective/Diagnostic/Remedial Reading</b><br><b>ED-LLC 343</b> Reading Diagnosis and Intervention   | 4              |

|   |    |
|---|----|
| Area IV: Language and Development<br>ED-LLC 300 Foundations of Linguistics and Language Acquisition<br>LING 305 Introduction to Language Studies<br>LING 307 Linguistics in Education<br>LING 310 First and Second Language Acquisition | 3  |
| Area V: Literature for Youth<br>ED-LLC 346 Children's Literature<br>ED-LLC 447 Young Adult Literature<br>ENGL 480 Integrating the English Language Arts in Curriculum and Instruction   | 3  |
| Area VI: Writing Instruction<br>ED-LLC 345 Writing Processes, Instruction, and Assessment: K-8<br>ENGL 301 Teaching Writers In English Language Arts Classrooms   | 3  |
| Area VII: Development and Diversity of Literacy Learners<br>ED-LLC 303 Methods in Teaching Content to Bilingual and English Language Learners   | 3  |
| Total   | 23 |
| Students must pass Paxis (5301) and earn a B (80%) or higher in each of the courses to attain a Literacy Endorsement.<br>See Department of Curriculum, Instruction, and Foundational Studies for more information.                      |    |

## Course Offerings

### ED-LLC—Literacy, Language, and Culture

#### Lower Division

**ED-LLC 117 TRANSITIONS: SURVIVING AND THRIVING IN COLLEGE (3-0-3)(F, S).** Developed specifically for students returning to learning after an absence from formal education. Activities include brushing up on study strategies, along with workshops honoring past life experiences and integrating changing roles and identities as a student. Taught in a positive and encouraging environment in support of personal and academic success.

**ED-LLC 150 COE LIVING AND LEARNING COMMUNITY (1-0-1)(F/S).** First Year and Second Year Education Residential College participants will explore aspects of success in education through direct connection a series of academic, community service, and team building activities. May be repeated for credit.

**ED-LLC 200 CULTURAL DIVERSITY IN THE SCHOOL (2-3-3)(F, S)(FS).** An introduction to the forms of diversity most relevant to local schools. In addition to issues of race, gender, class, and sexual orientation, the course introduces students to the psychological, legal, and cultural foundations of bilingual education and English as a Second Language with a special emphasis on Mexican-American culture. Field experience component is required.

**ED-LLC 204 FILM AND CONTEMPORARY ISSUES IN EDUCATION (3-0-3)(F, SU).** Opportunity to view, discuss, critique and analyze how important facets of contemporary issues impact education as represented (or misrepresented) in film. Topics are likely to include diverse and marginalized individuals, educational institutions creating a more socially just society, representation of students, teachers, community or teacher/student relationships, and identity or positioning in film.

**ED-LLC 205 MIGRATION STUDIES IN EDUCATION (3-0-3)(F/S).** Introduces future teachers to issues surrounding migrant and refugee children in today's schools. Covers: history of human migration, patterns of displacement, U.S. immigration policies, United Nations High Commissioner for Refugees policies, resettlement issues for families, trauma in newcomer children, local community resources for teachers, and knowledge of specific newcomer groups in Idaho. Includes field experience/service learning requirement.

**ED-LLC 250 COE LIVING AND LEARNING COMMUNITY (1-0-1)(F/S).** First Year and Second Year Education Residential College participants will explore aspects of success in education through direct connection a series of

academic, community service, and team building activities. May be repeated for credit.

#### Upper Division

**ED-LLC 300 FOUNDATIONS OF LINGUISTICS AND LANGUAGE ACQUISITION (3-0-3)(F, S).** Understanding of first and second language acquisition theories and implications for the instruction of English language learners in K-12 settings. Foundations of language (theoretical linguistics) and language as a system (applied linguistics), emphasizing analysis of the features of academic language used in schools. PREREQ: ED-CIFS 201, ED-LLC 200; PRE/COREQ: ED-LLC 340 or PERM/INST.

**ED-LLC 302 DEVELOPING BILITERACY IN THE BILINGUAL CLASSROOM (3-0-3)(F/S).** Overview of bilingual program models and approaches to teaching biliteracy within different models. Theories and research on the relationship of first and second language literacy development. Application of course content to lesson planning. Instruction is given in both English and Spanish. PRE/COREQ: ED-LLC 300. PREREQ: SPAN 202.

**ED-LLC 303 METHODS IN TEACHING CONTENT TO BILINGUAL AND ENGLISH LANGUAGE LEARNERS (3-0-3)(S).** Instructional strategies, techniques, and methods across the content areas for use with bilingual and English language learners. Application of ELD and state standards to lesson and unit plans that integrate content and language instruction. Focus on differentiation and instruction that embeds assessment and scaffolding. PREREQ: ED-LLC 300.

**ED-LLC 305 SPANISH FOR THE BILINGUAL CLASSROOM (2-0-2)(S).** A literature-based oral and written communication course for the extended opportunities in expressing and comprehending ideas in Spanish, as it relates to the context of the bilingual classroom. Students may be assigned to local public schools and/or community to gain practice in using the language of the local speech community. Course conducted in Spanish.

**ED-LLC 306 FIELD EXPERIENCE WITH BILINGUAL OR ENGLISH LANGUAGE LEARNERS (3-0-1)(S).** A field placement working with bilingual or English language learners in a public school setting. Teacher candidate will support individual students or small groups under the guidance of a mentor teacher. PREREQ: ED-LLC 300.

**ED-LLC 331 ASSESSMENT OF BILINGUAL AND ENGLISH LANGUAGE LEARNERS (3-0-3)(F).** Issues of assessment for Bilingual and English language learners including purposes, advantages, and limitations of assessments, including accommodations. Understanding of state and national requirements for identification and exit from language support programs. Classroom-based assessments of content-area learning and language development. PREREQ: ED-LLC 300.

**ED-LLC 340 IDAHO COMPREHENSIVE LITERACY (3-3-4)(F, S, SU).** Provides pre-service teachers with knowledge and strategies involving children's oral language, phonemic awareness, phonics, fluency, assessment and intervention, and the role these play in developing literacy with diverse students. Prepares pre-service teachers to meet part of the literacy requirements for an Idaho teaching credential. Includes a field-based experiential component of forty (40) hours.

**ED-LLC 343 READING DIAGNOSIS AND INTERVENTION (3-3-4)(F, S, SU).** A study of reading difficulties of elementary or secondary students with emphasis on diagnosis, as well as intervention materials and methods for teaching reading. After a period of classroom instruction students tutor an elementary or secondary student for approximately 20 sessions. PREREQ: ED-LLC 340.

**ED-LLC 345 WRITING PROCESSES, INSTRUCTION, AND ASSESSMENT: K-8 (3-0-3)(F, S, SU).** Develops teacher candidates' knowledge, skills, and dispositions about writing processes, written genres, and students' writing development. Provides opportunities to practice planning, instruction, and assessment skills. Prepares candidates to use Idaho Core Standards for Writing and Language Arts. PRE/COREQ: ED-LLC 340.

## LITERACY, LANGUAGE, AND CULTURE

**ED-LLC 346 CHILDREN'S LITERATURE (3-0-3)(F, S, SU).** Books and other resources designed for children are studied and evaluated in terms of literary theory, aesthetic appreciation, collection development and applications with children. Emphasis is placed on literature across the genres with all children in mind and the conventions of communication within the field. PREREQ: ENGL 102.

**ED-LLC 364 FIELD EXPERIENCE IN LITERACY (0-3-1)(F, SU).** Literacy-related activities including a variety of skills in the area of reading, writing, and literacy assessment.

**ED-LLC 400 CONSTRUCTING A PROFESSIONAL PORTFOLIO (1-0-1)(F, S)(FF).** Designed to integrate course content and Professional Year experiences with the opportunity to develop communication skills important in the profession of education. This course helps to achieve the goals of the Foundations program. PREREQ: Admission to the Professional Year. COREQ: ED-LLC 461 or ED-LLC 462.

**ED-LLC 440 CONTENT AREA LANGUAGE ARTS: K-8 (3-0-3)(F, S, SU).** Knowledge, strategies, and tools for comprehension, vocabulary, and introduction to writing of narrative and expository texts in content areas. Prepares pre-service teachers for Standard 2 of the Idaho Comprehensive Literacy Assessment and introduces students to the conventions of communication within the field of teacher education. PREREQ: ENGL 102. PRE/COREQ: ED-LLC 340.

**ED-LLC 442 INTEGRATED DISCIPLINARY LITERACY IN THE SOCIAL SCIENCES (3-0-3)(F, S).** Integrated Disciplinary Literacy in the Social Sciences (K-8). Knowledge, strategies, and tools for integrating comprehension, vocabulary and written text through elementary social studies curricula, philosophies, and methodologies. Prepares pre-service teachers for Standard 2 of the Idaho Comprehensive Literacy Assessment. Focus is on cross disciplinary literacy skills within the ten strands of social studies to develop an integrated unit emphasizing critical thinking, values in a democratic and pluralistic society, and global issues. PREREQ: Admission to Professional Year or upper-division College of Education standing. PRE/COREQ ED-CIFS 430.

**ED-LLC 444 CONTENT LITERACY FOR SECONDARY STUDENTS (3-0-3)(F/S).** Instructional materials in the various content subjects and instructional strategies to meet reading, writing, and study needs of all learners in today's diverse society. Prepares pre-service teachers for Standard 2 of the Idaho Comprehensive Literacy Assessment. Introduces students to the conventions of communication within the field of teacher education. PREREQ: ENGL 102, Admission to Professional Year for Secondary majors. COREQ: Content methods course for the student's declared major and ED-CIFS 401 or KINES 452.

**ED-LLC 447 YOUNG ADULT LITERATURE (3-0-3)(S).** Diverse perspectives in young adult literature, including issues in book selection. Intended for teachers, librarians, media generalists, and others working with young adults.

**ED-LLC 448 PSYCHOLINGUISTICS AND LITERACY (3-0-3)(SU).** Studies psychological processes and strategies by which readers and writers construct and reconstruct the message of a text. Application of theoretical conclusions to teaching practices.

**ED-LLC 460 PROFESSIONAL YEAR I (0-18-5)(F/S).** Classroom placement focusing on activities related to planning and preparation of bilingual/ESL curriculum and instruction, and professional responsibilities. Teacher candidate will complete a minimum of 250 hours in the K-8 classroom and apply knowledge and skills from all professional education coursework, and participate in weekly seminars with their liaisons. (Pass/Fail.) PREREQ: Admission to the Professional Year. COREQ: ED-LLC 442 and ED-CIFS 430.

**ED-LLC 461 PROFESSIONAL YEAR II: TEACHING EXPERIENCE IN BILINGUAL/ESL EDUCATION (0-21-6)(F, S).** Teaching experience in a classroom with bilingual or English language learners, including activities related to planning and preparation, classroom environments, curriculum and instruction and professional responsibilities. Teacher candidate will complete a teaching experience consistent with the calendars of the assigned partnership schools. (Pass/Fail.) PREREQ: ED-CIFS 330, ED-CIFS 331, ED-CIFS 333, ED-LLC 460. COREQ: ED-LLC 462.

**ED-LLC 462 PROFESSIONAL YEAR III: TEACHING EXPERIENCE IN BILINGUAL/ESL EDUCATION (0-21-6)(F, S).** The concluding teaching experience in Professional Year for students pursuing an endorsement in Bilingual Education or ESL, with a full-time teaching experience with bilingual or English language learners. Teacher candidate will complete a teaching experience consistent with the calendars of the assigned partnership schools. (Pass/Fail.) PREREQ: ED-CIFS 330, ED-CIFS 331, ED-CIFS 333, ED-LLC 460. COREQ: ED-LLC 461.

### LIBSCI—Library Science

#### Lower Division

**LIBSCI 201 INTRODUCTION TO THE USE OF LIBRARIES AND THE TEACHING OF LIBRARY SKILLS (2-2-3)(On Demand).** Teaches efficient use of library materials, catalogs, indexes, and reference sources in various subject fields and prepares teachers and librarians to teach library skills to elementary and secondary school students.

#### Upper Division

**LIBSCI 301 LIBRARY ORGANIZATION AND ADMINISTRATION (3-0-3)(On Demand).** An introduction to the development, organization, and management of all types of libraries with emphasis upon the school library and its place in the instructional program. PREREQ: LIBSCI 201 or PERM/INST.

**LIBSCI 311 REFERENCE AND BIBLIOGRAPHY (3-0-3)(On Demand).** Introduction to evaluation and use of basic reference sources, principles, techniques, and issues of reference service. Includes coverage of standard reference books, indexes, abstracts, and bibliographies found in school or small public libraries. PREREQ: LIBSCI 201 or PERM/INST.

**LIBSCI 321 BASIC BOOK SELECTION (3-0-3)(On Demand).** Principles and techniques for evaluating and selecting library materials; introduction to reviewing media and to basic tools for selecting and acquiring all types of book and nonbook materials. Includes discussions of discarding and weeding, and materials for slow and gifted readers. PREREQ: LIBSCI 201 or PERM/INST.

**LIBSCI 331 CATALOGING AND CLASSIFICATION (3-0-3)(On Demand).** Theory and principles of classification and cataloging of book materials, practice using Dewey Decimal Classification, preparing catalog cards, assigning subject headings, and library filing. Bibliographic utilities and cooperative cataloging are discussed. PREREQ: LIBSCI 201 or PERM/INST.

# Department of Management

*College of Business and Economics*

Micron Business and Economics Building, Room 2103

(208) 426-1313 (phone)

management@boisestate.edu (email)

<https://www.boisestate.edu/cobe-management/> (website)

*Chair and Professor:* Mark Buchanan. *Associate Chair and Professor:* Jim Wanek. *Professors:* Kaupins, Neupert. *Associate Professors:* Dunne, Mattingly, McIntosh, McNatt, Park. *Assistant Professors:* Ehrlich, Fang, Hyde, Jebe, Klein, Lingwall, Maher, Nicholas, Thomsen. *Clinical Assistant Professors:* Cundiff, Marr. *Lecturers:* Stephens, Suci, Vos.

## Degrees and Certificates Offered

- Bachelor of Business Administration in Business Administration
- Bachelor of Business Administration in Entrepreneurship Management
- Bachelor of Business Administration in Human Resource Management
- Bachelor of Business Administration in International Business
- Bachelor of Business Administration in Management
- Minor in Entrepreneurship Management
- Minor in Human Resource Management
- Minor in International Business
- Minor in Nonprofit Management
- Certificate in Nonprofit Management

## Department Statement

The Department of Management offers five majors: Entrepreneurship Management, Business Administration, Human Resource Management, International Business, and Management.

The Entrepreneurship Management major is appropriate for students who wish to start their own business, work in a family-owned business, and/or work for smaller businesses.

The Business Administration major offers students a spectrum of courses across the fundamental disciplines of business, including accounting, finance, marketing, human resources, information technology, and supply chain management. Business Administration graduates combine business, technical, and communication skills with the ability to analyze and interpret data across functions to make informed business decisions. The Bachelor of Business Administration degree prepares students for careers in a variety of areas where a broad range of functional knowledge is called for, such as: management training and leadership development programs, business analysts, sales and customer service professionals, and a variety of positions in government and non-profit organizations. The degree requirements are also flexible enough to allow students with specific career goals to create a unique profile of business-related competencies.

The Human Resource Management major provides a solid foundation for students interested in the human resource management process of a business related to strategic management, workforce planning, human resource development, compensation and benefits, employee and labor relations, and risk management.

The International Business major combines business, history, political science, and language courses to provide students with a strong interdisciplinary degree. As International Business graduates often initially enter their careers in positions requiring expertise in one or more traditional business areas (e.g., marketing, management, finance), studying an additional business or other focus area will make students more attractive to employers.

The Management major is an online degree completion program designed for working adults with some prior college experience and general understanding of basic business functions who want to enhance their careers in management. Program coursework infuses relevant business instruction with innovation and experiential learning. Through this program graduates will develop the knowledge base, analytic abilities, and interpersonal skills needed to become an effective, ethical leader, and manager.

## Admission Requirements

### Business Administration, Entrepreneurship Management, Human Resource Management, and International Business

Students interested in pursuing a degree in the College of Business and Economics (COBE), except for a BBA in Management, must be a pre-business major and complete the COBE admission requirements prior to the declaration of a major in a degree completion program. Admission to COBE is required before a student may enroll in most upper-division business and economics courses.

For details on the COBE admission requirements, see Pre-Business on page 268.

### Management

The Management degree completion program has a specific application and acceptance process. All students admitted to the program must meet the following by the application deadline:

- Be admitted to Boise State University.
- Submit a résumé to the program.
- Have an earned academic associate degree or about 60 transferable college-level credits from a regionally accredited institution.

Students who meet the following criteria will be given priority consideration for admission:

- Meet minimum gateway GPA requirement of 2.5, in the following courses,
- have completed or are in the final semester of completing each of the following courses with a grade of C- or better:
  - ACCT 205 Introduction to Financial Accounting
  - ACCT 206 Introduction to Managerial Accounting
  - BUSCOM 201 Global Business Communication
  - BUSSTAT 207 Introduction to Business Analytics or MATH 254 Introduction to Statistics
  - ECON 201 Principles of Macroeconomics
  - ECON 202 Principles of Microeconomics
  - ITM 105 Spreadsheet Topics
  - MATH 143 College Algebra or MATH 149 Precalculus: Functions for Business

Students who do not meet the priority criteria will be considered for admission based on: 1) cumulative GPA, 2) demonstrated proficiency in core business competency areas, and 3) additional program application materials, which may include: résumé, professional references, and short essay answers that highlight at least two years of professional work experience and management potential. Students must demonstrate proficiency in core business competency areas via an alternative option pre-approved by the program or prerequisite courses.

Please see the management department website: <https://www.boisestate.edu/cobe-management/> to obtain specific information about the application process and application deadlines.

### Special Fees

Students who are admitted in the Management program pay additional program fees at the time of admission or enrollment. See the online class search for specific courses and amounts.

# MANAGEMENT

## Degree Requirements

| Business Administration<br>Bachelor of Business Administration  |                |
|---|----------------|
| <i>Course Number and Title</i>  | <i>Credits</i> |
| University Foundations requirements indicated in bold. See page 48 for details and lists of approved courses.   |                |
| <b>UF 100</b> Foundations of Intellectual Life  | 3              |
| <b>UF 200</b> Foundations of Ethics and Diversity   | 3              |
| <b>FW ENGL 101</b> Writing and Rhetoric I   | 3              |
| <b>FW ENGL 102</b> Writing and Rhetoric II  | 3              |
| <b>FC</b> Foundations of Oral Communication   | 3              |
| <b>FM MATH 143</b> College Algebra or<br><b>FM MATH 149</b> Precalculus: Functions for Business or<br><b>FM MATH 160</b> Survey of Calculus or<br><b>FM MATH 170</b> Calculus I                                     | 3-4            |
| <b>FN</b> Foundations of Natural, Physical, & Applied Sciences course with lab  | 4              |
| <b>FN</b> Foundations of Natural, Physical, & Applied Sciences course in a second field   | 3-4            |
| <b>FA</b> Foundations of Arts course  | 3              |
| <b>FH</b> Foundations of Humanities course  | 3-4            |
| <b>FS ECON 201</b> Principles of Macroeconomics   | 3              |
| <b>FS</b> Foundations of Social Sciences course in a second field   | 3              |
| ACCT 205 Introduction to Financial Accounting   | 3              |
| ACCT 206 Introduction to Managerial Accounting  | 3              |
| BUS 101 Business for the New Generation   | 3              |
| BUS 202 The Legal Environment of Business   | 3              |
| BUS 301 Leadership Skills   | 3              |
| BUS 420 Managerial Problem Solving  | 3              |
| BUS 441 Business in Society: Ethics, Responsibility, and Sustainability   | 3              |
| <b>FF BUS 450</b> Business Policies   | 3              |
| BUSCOM 201 Global Business Communication  | 3              |
| BUSSTAT 207 Introduction to Business Analytics or<br>MATH 254 Introduction to Statistics  | 3              |
| BUSSTAT 208 Business Analytics  | 3              |
| ECON 202 Principles of Microeconomics   | 3              |
| FINAN 303 Principles of Finance   | 3              |
| HRM 305 Human Resource Management   | 3              |
| CoBE Computer Placement Exam or<br>ITM 105 Spreadsheet Topics   | 0-2            |
| ITM 310 Business Intelligence   | 3              |
| MKTG 301 Principles of Marketing  | 3              |
| SCM 301 Principles of Supply Chain Management   | 3              |
| Choose five (5) upper-division courses from at least two (2) of the following four (4) clusters:<br>1. ACCT and/or FINAN<br>2. BUS, ENTREP, HRM, INTBUS, and/or NONPROF<br>3. ITM and/or SCM<br>4. ECON and/or MKTG | 15             |
| Electives to total 120 credits  | 12-17          |
| <b>Total</b>  | <b>120</b>     |
| All courses required by the major must have a grade of C- or better.  |                |

| Entrepreneurship Management<br>Bachelor of Business Administration  |                |
|---|----------------|
| <i>Course Number and Title</i>  | <i>Credits</i> |
| University Foundations requirements indicated in bold. See page 48 for details and lists of approved courses.   |                |
| <b>UF 100</b> Foundations of Intellectual Life  | 3              |
| <b>UF 200</b> Foundations of Ethics and Diversity   | 3              |
| <b>FW ENGL 101</b> Writing and Rhetoric I   | 3              |
| <b>FW ENGL 102</b> Writing and Rhetoric II  | 3              |
| <b>FC</b> Foundations of Oral Communication   | 3              |
| <b>FM MATH 143</b> College Algebra or<br><b>FM MATH 149</b> Precalculus: Functions for Business or<br><b>FM MATH 160</b> Survey of Calculus or<br><b>FM MATH 170</b> Calculus I   | 3-4            |
| <b>FN</b> Foundations of Natural, Physical, & Applied Sciences course with lab  | 4              |
| <b>FN</b> Foundations of Natural, Physical, & Applied Sciences course in a second field   | 3-4            |
| <b>FA</b> Foundations of Arts course  | 3              |
| <b>FH</b> Foundations of Humanities course  | 3-4            |
| <b>FS ECON 201</b> Principles of Macroeconomics   | 3              |
| <b>FS PSYC 101</b> Introduction to Psychology   | 3              |
| ACCT 205 Introduction to Financial Accounting   | 3              |
| ACCT 206 Introduction to Managerial Accounting  | 3              |
| BUS 101 Business for the New Generation   | 3              |
| BUS 202 The Legal Environment of Business   | 3              |
| BUS 301 Leadership Skills   | 3              |
| BUS 302 Commercial Law  | 3              |
| BUS 410 Advanced Management Topics  | 3              |
| BUS 441 Business in Society: Ethics, Responsibility, and Sustainability   | 3              |
| <b>FF BUS 450</b> Business Policies   | 3              |
| BUSCOM 201 Global Business Communication  | 3              |
| BUSSTAT 207 Introduction to Business Analytics or<br>MATH 254 Introduction to Statistics  | 3              |
| BUSSTAT 208 Business Analytics  | 3              |
| ECON 202 Principles of Microeconomics   | 3              |
| ENTREP 320 Entrepreneurial Skills   | 3              |
| ENTREP 420 New Venture Creation   | 3              |
| ENTREP 421 Managing an Emerging Business  | 3              |
| FINAN 303 Principles of Finance   | 3              |
| HRM 305 Human Resource Management   | 3              |
| CoBE Computer Placement Exam or<br>ITM 105 Spreadsheet Topics   | 0-2            |
| ITM 310 Business Intelligence   | 3              |
| MKTG 301 Principles of Marketing  | 3              |
| MKTG 420 Marketing Management   | 3              |
| SCM 301 Principles of Supply Chain Management   | 3              |
| International Business:<br>BUS 334 International Management<br>ECON 317 International Economics<br>FINAN 430 International Finance<br>INTBUS 443 Importing and Exporting Procedures<br>INTBUS 445 International Trade and Investment Law<br>MKTG 430 International Marketing<br>Or a university-sponsored semester abroad (requires department approval). | 3              |



|  |      |
|--|------|
| Electives to total 120 credits                                       | 9-14 |
| Total  | 120  |
| All courses required by the major must have a grade of C- or better. |      |

|  |      |
|--|------|
| Electives to total 120 credits                                       | 9-14 |
| Total  | 120  |
| All courses required by the major must have a grade of C- or better. |      |

| Human Resource Management<br>Bachelor of Business Administration  |                |
|---|----------------|
| <i>Course Number and Title</i>  | <i>Credits</i> |
| University Foundations requirements indicated in bold. See page 48 for details and lists of approved courses.   |                |
| <b>UF 100</b> Foundations of Intellectual Life  | 3              |
| <b>UF 200</b> Foundations of Ethics and Diversity   | 3              |
| <b>FW ENGL 101</b> Writing and Rhetoric I   | 3              |
| <b>FW ENGL 102</b> Writing and Rhetoric II  | 3              |
| <b>FC</b> Foundations of Oral Communication   | 3              |
| <b>FM MATH 143</b> College Algebra or<br><b>FM MATH 149</b> Precalculus: Functions for Business or<br><b>FM MATH 160</b> Survey of Calculus or<br><b>FM MATH 170</b> Calculus I | 3-4            |
| <b>FN</b> Foundations of Natural, Physical, & Applied Sciences course with lab  | 4              |
| <b>FN</b> Foundations of Natural, Physical, & Applied Sciences course in a second field   | 3-4            |
| <b>FA</b> Foundations of Arts course  | 3              |
| <b>FH</b> Foundations of Humanities course  | 3-4            |
| <b>FS ECON 201</b> Principles of Macroeconomics   | 3              |
| <b>FS PSYC 101</b> Introduction to Psychology   | 3              |
| <b>ACCT 205</b> Introduction to Financial Accounting  | 3              |
| <b>ACCT 206</b> Introduction to Managerial Accounting   | 3              |
| <b>BUS 101</b> Business for the New Generation  | 3              |
| <b>BUS 202</b> The Legal Environment of Business  | 3              |
| <b>BUS 301</b> Leadership Skills  | 3              |
| <b>BUS 410</b> Advanced Management Topics   | 3              |
| <b>BUS 441</b> Business in Society: Ethic, Responsibility, & Sustainability   | 3              |
| <b>FF BUS 450</b> Business Policies   | 3              |
| <b>BUSCOM 201</b> Global Business Communication   | 3              |
| <b>BUSSTAT 207</b> Introduction to Business Analytics or<br><b>MATH 254</b> Introduction to Statistics  | 3              |
| <b>BUSSTAT 208</b> Business Analytics   | 3              |
| <b>COMM 221</b> Interpersonal Communication or<br><b>COMM 231</b> Public Speaking   | 3              |
| <b>COMM 307</b> Interviewing or<br><b>COMM 390/SOC 390</b> Conflict Management or<br><b>BUS 334</b> International Management  | 3              |
| <b>ECON 202</b> Principles of Microeconomics  | 3              |
| <b>FINAN 303</b> Principles of Finance  | 3              |
| <b>HRM 305</b> Human Resource Management  | 3              |
| <b>HRM 330</b> Human Resource Law   | 3              |
| <b>HRM 340</b> Employee and Labor Relations   | 3              |
| <b>HRM 406</b> Compensation and Benefits  | 3              |
| <b>HRM 408</b> Employee Staffing and Training   | 3              |
| <b>CoBE</b> Computer Placement Exam or<br><b>ITM 105</b> Spreadsheet Topics   | 0-2            |
| <b>ITM 310</b> Business Intelligence  | 3              |
| <b>MKTG 301</b> Principles of Marketing   | 3              |
| <b>SCM 301</b> Principles of Supply Chain Management  | 3              |

| International Business<br>Bachelor of Business Administration  |                |
|--|----------------|
| <i>Course Number and Title</i>   | <i>Credits</i> |
| University Foundations requirements indicated in bold. See page 48 for details and lists of approved courses.  |                |
| <b>UF 100</b> Foundations of Intellectual Life   | 3              |
| <b>UF 200</b> Foundations of Ethics and Diversity  | 3              |
| <b>FW ENGL 101</b> Writing and Rhetoric I  | 3              |
| <b>FW ENGL 102</b> Writing and Rhetoric II   | 3              |
| <b>FC</b> Foundations of Oral Communication  | 3              |
| <b>FM MATH 143</b> College Algebra or<br><b>FM MATH 149</b> Precalculus: Functions for Business or<br><b>FM MATH 160</b> Survey of Calculus or<br><b>FM MATH 170</b> Calculus I  | 3-4            |
| <b>FN</b> Foundations of Natural, Physical, & Applied Sciences course with lab   | 4              |
| <b>FN</b> Foundations of Natural, Physical, & Applied Sciences course in a second field  | 3-4            |
| <b>FA</b> Foundations of Arts course   | 3              |
| <b>FH</b> Foundations of Humanities course in language 202*  | 3-4            |
| <b>FS ECON 201</b> Principles of Macroeconomics  | 3              |
| <b>FS</b> Foundations of Social Sciences course in a second field  | 3-4            |
| <b>ACCT 205</b> Introduction to Financial Accounting   | 3              |
| <b>ACCT 206</b> Introduction to Managerial Accounting  | 3              |
| <b>BUS 101</b> Business for the New Generation   | 3              |
| <b>BUS 202</b> The Legal Environment of Business   | 3              |
| <b>BUS 301</b> Leadership Skills   | 3              |
| <b>BUS 334</b> International Management  | 3              |
| <b>FF BUS 450</b> Business Policies  | 3              |
| <b>BUSCOM 201</b> Global Business Communication  | 3              |
| <b>BUSSTAT 207</b> Introduction to Business Analytics or<br><b>MATH 254</b> Introduction to Statistics   | 3              |
| <b>BUSSTAT 208</b> Business Analytics  | 3              |
| <b>ECON 202</b> Principles of Microeconomics   | 3              |
| <b>FINAN 303</b> Principles of Finance   | 3              |
| <b>INTBUS 230</b> Go Global: You and the World Economy   | 3              |
| <b>INTBUS 443</b> Importing and Exporting Procedures   | 3              |
| International Business Career Experience: <b>INTBUS 493</b> Internship, <b>INTBUS 497</b> Special Topics course or Studies Abroad Program.   | 0-3            |
| <b>CoBE</b> Computer Placement Exam or<br><b>ITM 105</b> Spreadsheet Topics  | 0-2            |
| <b>ITM 310</b> Business Intelligence   | 3              |
| <b>MKTG 301</b> Principles of Marketing  | 3              |
| <b>SCM 301</b> Principles of Supply Chain Management   | 3              |
| Choose 3 of the following:<br><b>ECON 317</b> International Economics<br><b>FINAN 430</b> International Finance<br><b>INTBUS 445</b> International Trade and Investment Law<br><b>MKTG 430</b> International Marketing | 9              |

## MANAGEMENT

|   |            |
|---|------------|
| Choose 2 upper-division courses from the following:<br>1) Business Language FREN 307, GERM 307, SPAN 307* or where they are not available, another upper-division language course<br>2) History (HIST) or Political science (POLS) courses**              | 6-7        |
| Upper-division electives to total 40 credits  | 0-1        |
| Electives to total 120 credits***   | 6-17       |
| <b>Total</b>  | <b>120</b> |
| *For students without prior language courses, there may be additional prerequisites needed to fulfill the language 202 requirement.   |            |
| **The upper-division history and political science course should be geographically or geopolitically related to the FH Language 202 course. International Business majors meet the prerequisite for POLS 421, 422, 423, 424, 425, 426, 427, 428, and 429. |            |
| ***International Business majors are strongly encouraged to add a minor degree to their course of study to enhance career placement and success. Business language option, if available, is strongly encouraged.  |            |

| Management<br>Bachelor of Business Administration   |                |
|---|----------------|
| <i>Course Number and Title</i>  | <i>Credits</i> |
| University Foundations requirements indicated in bold. See page 48 for details and lists of approved courses. |                |
| <b>UF 100</b> Foundations of Intellectual Life  | 3              |
| <b>UF 200</b> Foundations of Ethics and Diversity   | 3              |
| <b>FW ENGL 101</b> Writing and Rhetoric I   | 3              |
| <b>FW ENGL 102</b> Writing and Rhetoric II  | 3              |
| <b>FC</b> Foundations of Oral Communication   | 3              |
| <b>FM</b> Foundations of Mathematics course   | 3-4            |
| <b>FN</b> Foundations of Natural, Physical, & Applied Sciences course with lab                                | 4              |
| <b>FN</b> Foundations of Natural, Physical, & Applied Sciences course in a second field                       | 3-4            |
| <b>FA</b> Foundations of Arts course  | 3              |
| <b>FH</b> Foundations of Humanities course  | 3-4            |
| <b>FS ECON 201</b> Principles of Macroeconomics   | 3              |
| <b>FS</b> Foundations of Social Sciences course in a second field   | 3              |
| BUSMGT 300 Orientation  | 1              |
| BUSMGT 304 Design Thinking  | 3              |
| BUSMGT 306 Professional Communication for Managers  | 3              |
| BUSMGT 315 Foundations of Management  | 3              |
| BUSMGT 317 Managing Human Resources   | 3              |
| BUSMGT 320 Marketing  | 3              |
| BUSMGT 322 Negotiation and Conflict Management  | 3              |
| BUSMGT 325 International Business Management  | 3              |
| BUSMGT 342 Strategic Tools  | 3              |
| BUSMGT 344 Business Intelligence and Analytics  | 3              |
| BUSMGT 347 Law for Managers   | 3              |
| BUSMGT 360 Leadership and High Performing Teams   | 3              |
| BUSMGT 364 Business Ethics, Responsibility and Sustainability   | 3              |
| BUSMGT 368 Operations Management  | 3              |
| BUSMGT 420 Managing Innovation and Change   | 3              |
| BUSMGT 422 Finance for Managers   | 3              |
| <b>FF BUSMGT 425</b> Capstone   | 3              |
| Electives to total 120 credits  | 31-34          |
| <b>Total</b>  | <b>120</b>     |

Students pursuing a business degree may earn an Entrepreneurship Management Minor by satisfying the requirements listed below in addition to their major requirements. Nonbusiness students wishing to earn a minor in entrepreneurship also must complete the lower-division business core to obtain an entrepreneurship minor.

| Entrepreneurship Management Minor  |                |
|--|----------------|
| <i>Course Number and Title</i>   | <i>Credits</i> |
| BUS 301 Leadership Skills  | 3              |
| ENTREP 320* Entrepreneurial Skills   | 3              |
| ENTREP 420* New Venture Creation   | 3              |
| ENTREP 421* Managing an Emerging Business  | 3              |
| Two (2) courses chosen from:<br>ENTREP 493* Internship or<br>Any upper-division COBE courses for which you have the prerequisites. | 6              |
| <b>Total</b>   | <b>18</b>      |
| *Require admission to COBE.  |                |

Students pursuing a business degree may earn a Human Resource Management Minor by satisfying the requirements listed below in addition to their major requirements. Nonbusiness students wishing to earn a minor in human resource management also must complete the lower-division business core to obtain a human resource management minor.

| Human Resource Management Minor  |                |
|--|----------------|
| <i>Course Number and Title</i>   | <i>Credits</i> |
| BUS 301 Leadership Skills  | 3              |
| HRM 305 Human Resource Management  | 3              |
| HRM 330* Human Resource Law  | 3              |
| HRM 340* Employee and Labor Relations  | 3              |
| HRM 406* Compensation and Benefits   | 3              |
| One (1) course chosen from:<br>BUS 441* Business in Society: Ethics, Responsibility & Sustainability<br>CONFLICT/COMM/SOC 390 Conflict Management<br>HRM 408* Employee Staffing and Training | 3              |
| <b>Total</b>   | <b>18</b>      |
| *Require admission to COBE.  |                |

The International Business Minor is offered for business students who seek more specialized courses in the international area. To obtain the International Business Minor as a nonbusiness student, you must also complete additional general requirements for a business minor.

| International Business Minor   |                |
|--|----------------|
| <i>Course Number and Title</i>   | <i>Credits</i> |
| BUS 334* International Management  | 3              |
| INTBUS 230 Go Global: You and the World Economy  | 3              |
| Choose 3 from the following:<br>ECON 317* International Economics<br>FINAN 430* International Finance<br>INTBUS 443* Importing and Exporting Procedures<br>INTBUS 445* International Trade and Investment Law<br>MKTG 430* International Marketing | 9              |
| Upper-division history course (HIST)   | 3              |
| Upper-division political science course (POLS)**   | 3              |
| <b>Total</b>   | <b>21</b>      |
| *Require admission to COBE.  |                |
| **International Business minors meet the prerequisite for POLS 420, 421, 422, 423, 424, 425, 426, 427, 428, and 429.   |                |

The Nonprofit Management Minor is a 21 credit interdisciplinary focus on nonprofit management and community development. Students from all majors can use this minor to pursue their interests in all manner of philanthropy and community development in a variety of policy areas.

| Nonprofit Management Minor  |                |
|---|----------------|
| <i>Course Number and Title</i>  | <i>Credits</i> |
| Choose one (1) course from:<br>BUSCOM 201 Global Business Communication<br>CMGT 201 Construction Communications<br>ENGL 212 Technical Communication<br>ENGL 302 Technical Rhetoric and Genres   | 3              |
| BUS 301 Leadership Skills   | 3              |
| HRM 305 Human Resource Management   | 3              |
| NONPROF 240 Introduction to Nonprofit Management  | 3              |
| NONPROF 340 Volunteer Management & the Nonprofit  | 3              |
| NONPROF 440 Funding for Nonprofits or<br>ENGL 314 Proposal Development or<br>HEP 346 Grant Writing II—Writing the Proposal  | 3              |
| Choose from:<br>COMM 356 Communication in the Small Group<br>COMM/CONFLICT/SOC 390 Conflict Management<br>ENGL 408 Writing for Nonprofits and Social Media<br>NONPROF 493 Internship<br>SOC 403 Social Change<br>THEA 440 Arts Management | 3              |
| Total   | 21             |

| Nonprofit Management Certificate  |                |
|---|----------------|
| <i>Course Number and Title</i>  | <i>Credits</i> |
| Choose one (1) course from:<br>BUSCOM 201 Global Business Communication<br>CMGT 201 Construction Communications<br>ENGL 212 Technical Communication<br>ENGL 302 Technical Rhetoric and Genres | 3              |
| NONPROF 240 Introduction to Nonprofit Management  | 3              |
| NONPROF 340 Volunteer Management & the Nonprofit  | 3              |
| NONPROF 440 Funding for Nonprofits or<br>ENGL 314 Proposal Development or<br>HEP 346 Grant Writing II—Writing the Proposal  | 3              |
| Total   | 12             |

## Course Offerings

### BUS—Business

#### Lower Division

#### **BUS 101 BUSINESS FOR THE NEW GENERATION (3-0-3)(F, S).**

Acquaints students with business organizations, functional areas, and current business issues such as ethics, social responsibility and sustainability. Presents the strengths and limitations of the business enterprise, while promoting innovation, creativity, and technology use in a global context. Emphasis on strategy, communication, problem solving, teams and negotiation. Format will be lecture plus interactive breakout groups, simulations and integrated cases.

#### **BUS 150, 250 RESIDENTIAL COLLEGE: BUSINESS AND**

**ECONOMICS (1-0-1)(F, S).** Required course for students residing in the University Housing Business and Economics Residential College. Students learn about the campus and community resources, explore various business-related professions, are civically engaged, and participate in service projects. May be repeated for credit. PREREQ: PERM/INST.

#### **BUS 202 THE LEGAL ENVIRONMENT OF BUSINESS (3-0-3)(F, S, SU).**

Emphasis will be on both the external and internal legal environment of a business organization. Topics will include the nature and function of the legal process, administrative regulations, the interaction of business with the judicial, legislative, and executive branches of government, and the legal responsibilities of business. Freshmen excluded.

#### Upper Division

**BUS 301 LEADERSHIP SKILLS (3-0-3)(F, S, SU).** Application of behavioral science principles and skills to the practice of leadership in a variety of contexts. Topics include team building, motivation, problem solving, negotiation, and self-management. PREREQ: Junior standing and BUSCOM 201 for business majors or ENGL 212 for non-business majors or CMGT 201 for construction management majors.

**BUS 302 COMMERCIAL LAW (3-0-3)(F, S, SU).** This course provides an in-depth study of the legal principles relating to commercial transactions. Special emphasis will be placed on the following areas of law: agency, contracts, sales, commercial paper, secured transactions, and bankruptcy. PREREQ: Admission to COBE, BUS 202.

**BUS 305 LAW FOR ACCOUNTANTS (3-0-3)(F, S).** Builds on BUS 202 by covering the additional business law topics accountants need to know to succeed. Covers contracts, sales, bankruptcy and property law, agency, partnerships and corporations, secured transactions, estates and trusts, and the legal responsibility of accountants. PREREQ: Admission to COBE, BUS 202.

**BUS 334 INTERNATIONAL MANAGEMENT (3-0-3)(F, S).** The course addresses issues of managing multinational corporations, both American firms overseas and non-American firms in the U.S. Specifically, the course provides insights into structure, human resource management practices, managing motivation, communication, staffing and related issues. PREREQ: Admission to COBE, BUS 301.

## MANAGEMENT

**BUS 410 ADVANCED MANAGEMENT TOPICS (3-0-3)(F, S).** An advanced study of a major topic in management. Example topics: Self-management, motivation and work, management of technology, e-commerce, organizational theory and organizational change. PREREQ: Admission to COBE, RADSCI program, Health Informatics and Information Management major, or Construction Management major, BUS 301.

**BUS 420 MANAGERIAL PROBLEM SOLVING (3-0-3)(F, S).** The complex issues facing today's organizations require managers to critically analyze the environment and apply various problem solving techniques and tools to navigate challenging situations. This course is intended to provide students with a broad range of tools and practices for solving problems to help them develop the competence and skills necessary to become effective managers. To accomplish these goals, this course will cover major theoretical concepts in problem solving and decision-making, and leverage a variety of practical tools managers commonly use to solve problems. PREREQ: Admission to COBE, Senior standing.

**BUS 441 BUSINESS IN SOCIETY: ETHICS, RESPONSIBILITY AND SUSTAINABILITY (3-0-3)(F, S).** Intensive exploration of the role of business in a global society, including ethical decision-making, business responsibility in social and environmental contexts and best practices in sustainability. PREREQ: Admission to COBE, BUS 202, (BUS 302 recommended), or HIST 330.

**BUS 450 BUSINESS POLICIES (3-0-3)(F, S, SU)(FF).** To develop analytical, problem-solving, and decision-making skills in situations dealing with complex organizations, with the ultimate objective of formulating policies and strategies, both domestic and worldwide. To build upon and integrate the knowledge and methods acquired to examine all functional areas of the organization. PREREQ: Admission to COBE, Senior standing, and FINAN 303, BUS 301, MKTG 301, SCM 301.

**BUS 493 INTERNSHIP (V-V)(F, S, SU).** Internship credits are earned in supervised fieldwork specifically related to a student's major. To enroll in 493, a student must have attained a cumulative grade-point average of 2.00 or higher. No more than 12 internship credits may be used to meet degree requirements or university graduation requirements. PREREQ: Admission to COBE, PERM/INST.

### **BUSMGT—Management**

#### **Upper Division**

**BUSMGT 300 ORIENTATION (1-0-1)(F, S, SU).** Introduces students to the BBA Management program and the fundamentals of online learning. Includes a self-paced foundation or refresher in basic quantitative skills, financial accounting, microeconomics, statistics, and spreadsheets. (Pass/Fail.) PREREQ: Admitted to the Management BBA program.

**BUSMGT 304 DESIGN THINKING (3-0-3)(F, S, SU).** Introduces hands-on, technique-based training in the process of creating new, market-viable products and services. Focuses on disruptive thinking, reconstructing market boundaries, ethnographic research, and needs-based product positioning strategies. A mini business plan is developed using a collaborative, structured innovation process. PREREQ: Admitted to the Management BBA program.

**BUSMGT 306 PROFESSIONAL COMMUNICATION FOR MANAGERS (3-0-3)(F, S, SU).** Provides opportunities to enhance skills in delivering clear, concise, and compelling messages through written and oral communication. This includes meetings and persuasive formal presentations. Students will also develop proficiency in the use of digital media for presentation, collaboration, and interpersonal interaction. PREREQ: Admitted to the Management BBA program, ENGL 102.

**BUSMGT 315 FOUNDATIONS OF MANAGEMENT (3-0-3)(F, S, SU).** Introduces critical management skills involved in planning, structuring, leading, and controlling in an organization. Emphasizes the analysis and understanding of human behavior in organizations, including teamwork, motivation leadership, power and communication. Additional topics include strategic and operational planning, decision making, and designing adaptive organizations. PREREQ: Admitted to the Management BBA program.

**BUSMGT 317 MANAGING HUMAN RESOURCES (3-0-3)(F, S, SU).** Introduces the major human resource management functions: planning and recruitment, selection and placement, compensation and benefits, training and development, employee and labor relations, and health, safety, and security. PREREQ: Admitted to the Management BBA program.

**BUSMGT 320 MARKETING (3-0-3)(S).** Introduces methods of identifying and meeting the wants and needs of people and organizations. Focuses on decisions related to product, price, promotion, and distribution channels, including e-commerce. PREREQ: Admitted to the Management BBA program.

**BUSMGT 322 NEGOTIATION AND CONFLICT MANAGEMENT (3-0-3)(S).** Examines negotiation planning, processes, third-party interventions, and conflict management techniques applied in interpersonal, intergroup, organizational, and community settings. Introduces and applies skill development through discussion forums and negotiation role plays. PREREQ: Admitted to the Management BBA program.

**BUSMGT 325 INTERNATIONAL BUSINESS MANAGEMENT (3-0-3)(S).** Examines international business practices, as well as the influence of culture and ethics within the context of the global business environment. Addresses decisions about strategy and entry into overseas markets. Explores functional areas including marketing, finance, and human resource management. PREREQ: Admitted to the Management BBA program.

**BUSMGT 342 STRATEGIC TOOLS (3-0-3)(SU).** Examines frameworks and tools used by managers for the strategic analysis and assessment of their competitive environments. Emphasizes developing a working knowledge of application and interpretation of frameworks, tools, and techniques. PREREQ: Admitted to the Management BBA program.

**BUSMGT 344 BUSINESS INTELLIGENCE AND ANALYTICS (3-0-3)(SU).** Examines information technology resources such as database systems and enterprise systems explained in their role of supporting decision makers. Emphasizes a hands-on-experience using spreadsheets, relational databases, and business intelligence software. PREREQ: Admitted to the Management BBA program.

**BUSMGT 347 LAW FOR MANAGERS (3-0-3)(SU).** Introduces future managers to the major legal issues involved in the business environment. Emphasizes the implication of these legal issues for business decision-making. Covers legal reasoning and the legal system, agency and business associations, torts, contracts and sales, intellectual property, employment law, and product liability. PREREQ: Admitted to the Management BBA program.

**BUSMGT 360 LEADERSHIP AND HIGH PERFORMING TEAMS (3-0-3)(F).** Develops an understanding of leadership concepts and principles. Emphasizes leadership skills and the ability to facilitate work in high-performing teams. Coursework includes applied learning within a business development context. PREREQ: Admitted to the Management BBA program.

**BUSMGT 364 BUSINESS ETHICS, RESPONSIBILITY, AND SUSTAINABILITY (3-0-3)(F).** Explores the role of business in a global society. Includes ethical reasoning and decision-making, business responsibility in social and environmental contexts, and best practices in sustainability. PREREQ: Admitted to the Management BBA program.

**BUSMGT 368 OPERATIONS MANAGEMENT (3-0-3)(F).** Explores management of the core operations in manufacturing and services firms. Includes planning and control, scheduling, facility location, quality management, supply chain management, and inventory analysis. PREREQ: Admitted to the Management BBA program.

**BUSMGT 420 MANAGING INNOVATION AND CHANGE (3-0-3)(F, S, SU).** Provides techniques for driving innovation and implementing ensuing business changes into an organization. Explores the role of managers and organizational design in balancing current operations with innovation during the change process. PREREQ: Admitted to the Management BBA program.

**BUSMGT 422 FINANCE FOR MANAGERS (3-0-3)(F, S, SU).** Examines the tools and concepts required to make value-added financial decisions. Emphasis on interpretation and analysis of financial reports and data. Topics include financial statement analysis, budgeting, cash flow, time value of

money, and capital investment decisions. PREREQ: Admitted to the Management BBA program.

**BUSMGT 425 CAPSTONE (3-0-3)(F, S, SU)(FF).** Develops analytical, problem-solving, and decision making skills in situations dealing with complex organizations, with the ultimate objective of formulating policies and strategies, both domestic and worldwide. Builds upon and integrates the knowledge and methods acquired throughout the program to examine all functional areas of the organization. PREREQ: Admitted to the Management BBA program and PERM/CHAIR.

### ENTREP—Entrepreneurship Management

#### Lower Division

**ENTREP 100 INTRO TO TECH STARTUPS (1-0-1)(F, S).** Lean startup principles that have helped prominent tech startups grow into billion-dollar companies. Topics covered in this course include innovating with technology, creating value, launching a product, iterating ideas, and scaling a business.

**ENTREP 200 CUSTOMER DISCOVERY FOR TECH STARTUPS (1-0-1)(F).** Techniques used for discovering and validating customer segments for new or existing tech products. Topics include analyzing existing markets and competitors, receiving first-hand feedback from real potential customers, and learning to clearly define value propositions. PREREQ: ENTREP 100.

**ENTREP 201 MINIMAL VIABLE PRODUCT LAUNCH (1-0-1)(S).** Introduction to prototyping via minimal viable products. Topics include assessing, designing, building, and testing prototypes. PREREQ: ENTREP 100 or PERM/INST.

#### Upper Division

**ENTREP 320 ENTREPRENEURIAL SKILLS (3-0-3)(F, S).** Utilizes opportunity recognition, design thinking, lean launch, and rapid prototyping techniques to develop and test student business ideas. Learners will generate a business model canvas to develop a 360° view of the business. Construction management majors need permission to enroll. PREREQ: Admission to COBE, junior standing or PERM/CHAIR.

**ENTREP 400 SENIOR IDEA LAUNCH (1-0-1)(F, S).** Receive one-on-one attention and mentoring to help launch your venture. Report progress via documentation, meetings and demos. Class concludes with a pitch presentation to investors and local business leaders. PREREQ: ENTREP 421.

**ENTREP 415 THE ART OF BARGAINING IN BUSINESS (3-0-3)(On Demand).** A conceptual and practical survey of the theory and practice of bargaining and its central role in managing business. Bargaining strategies and tactics are examined through use of readings, lecture, and simulated bargaining situations. PREREQ: Admission to COBE, BUS 301 and junior standing or PERM/CHAIR.

**ENTREP 420 NEW VENTURE CREATION (3-0-3)(F, S).** Uses lean start processes and tools to create a new venture based on a sustainable business model and plan. Topics include opportunity recognition and assessment, team management, business model development and venture funding. PREREQ: Admission to COBE, BUS 301, ENTREP 320, MKTG 301; or computer science major; or PERM/CHAIR.

**ENTREP 421 MANAGING AN EMERGING BUSINESS (3-0-3)(F, S).** Addresses the issues and challenges encountered by early stage ventures. Covers planning to achieve growth, organizational and legal issues, funding and marketing and sales strategies. PREREQ: Admission to COBE, BUS 301, ENTREP 320, FINAN 303, MKTG 301; or computer science major, ENTREP 201 or ENTREP 420; or PERM/CHAIR.

**ENTREP 493 INTERNSHIP (V-V-V)(F, S, SU).** Internship credits are earned in supervised fieldwork specifically related to a student's major. To enroll in 493, a student must have attained a cumulative grade-point average of 2.00 or higher. No more than 12 internship credits may be used to meet degree requirements or university graduation requirements. PREREQ: Admission to COBE, PERM/INST.

### HRM—Human Resource Management

#### Upper Division

**HRM 305 HUMAN RESOURCE MANAGEMENT (3-0-3)(F, S, SU).** Overview and application of the major human resource management functions: selection and placement, compensation and benefits, training and development, employee and labor relations, health, safety, and security, and strategic management practices. Legal, motivational, international, merger and acquisition, and human resource information system issues are included. PREREQ: Junior standing.

**HRM 330 HUMAN RESOURCE LAW (3-0-3)(F, S).** The general principles of employment and labor law and the effective application of these principles. Issues such as employment-at-will, employment discrimination, fair labor standards, organizing campaigns, and unfair labor practices are discussed. Construction management majors need permission to enroll. PREREQ: Admission to COBE, BUS 202, ENGL 102, or PERM/CHAIR.

**HRM 340 EMPLOYEE AND LABOR RELATIONS (3-0-3)(F, S).** History, structure, policies, and operations of labor unions, the functioning of industrial relations activities within organizations, and important concepts and terminology in labor management relations. Contract administration is emphasized with a focus on the day-to-day relationships. International comparisons are made. Construction management majors need permission to enroll. PREREQ: Admission to COBE, BUS 202, ENGL 102, or PERM/CHAIR.

**HRM 406 COMPENSATION AND BENEFITS (3-0-3)(F, S).** Implementation, administration, maintenance, and control of a comprehensive compensation program. Job analysis, job evaluation, pricing of jobs, supplemental benefits, incentive plans, performance appraisal, variable pay, and international compensation issues are included. PREREQ: Admission to COBE, HRM 305, or PERM/CHAIR.

**HRM 408 EMPLOYEE STAFFING AND TRAINING (3-0-3)(F, S).** Current trends in selection and training are covered. Includes measurement of individual differences for decision making in hiring, promoting, training, and dismissal; evaluation of HRM processes and systems; formal and informal training program design; and evaluation of training effectiveness. PREREQ: Admission to COBE, HRM 305.

**HRM 493 INTERNSHIP (V-V-V)(F, S, SU).** Internship credits are earned in supervised fieldwork specifically related to a student's major. To enroll in 493, a student must have attained a cumulative grade-point average of 2.00 or higher. No more than 12 internship credits may be used to meet degree requirements or university graduation requirements. PREREQ: Admission to COBE, PERM/INST.

### INTBUS—International Business

#### Lower Division

**INTBUS 230 GO GLOBAL: YOU AND THE WORLD ECONOMY (3-0-3)(F, S).** Students will gain an intermediate level of understanding of international trade and business practices, as well as the historical influences of culture and ethics within the context of the global business environment. This course will promote greater awareness of the world as a community in which we all participate and are responsible.

#### Upper Division

**INTBUS 440 CULTURES, COMMUNICATION, AND GLOBAL BUSINESS (3-0-3)(F)(On Demand).** Defines both culture and communication broadly and explores their influence on the conduct of business in the international arena. Includes linkages between culture and communication in general; and specifically, the impact of dimensions such as education, language, historical experience, social structure, and diplomatic relations on bilateral and international trade. PREREQ: Admission to COBE.

**INTBUS 443 IMPORTING AND EXPORTING PROCEDURES (3-0-3)(S).** Focusing on exporting and importing, this course offers practical experience in international trade. Specifically, the course will cover payment and financial procedures, export procedures and documents, shipment methods, counter trade,

## MANAGEMENT

and resources available for importers and exporters. PREREQ: Admission to COBE, INTBUS 230.

**INTBUS 444 INTERNATIONAL MANAGEMENT SIMULATION (3-0-3) (S)(On Demand).** The course uses a computer-simulated business game to provide teams of students the opportunity to learn how firms from Japan, the U.S., and Germany compete in a global economy. PREREQ: Admission to COBE, INTBUS 230.

**INTBUS 445 (POLS 445) INTERNATIONAL TRADE AND INVESTMENT LAW (3-0-3) (F).** The law and policy of international economic institutions (e.g., World Trade Organization, NAFTA), national government regulation and private law affecting international transactions in trade in goods, services, technology, and investments. Also selected issues in U.S. foreign/trade policy and ethical/social responsibility. May be taken for either INTBUS or POLS credit, but not both. Recommended: INTBUS 230. PREREQ: Admission to COBE, senior/graduate standing or POLS 305 or POLS 306, or PERM/CHAIR.

**INTBUS 455 GLOBAL STRATEGY (3-0-3)(On Demand).** Covers how to take effective action in the global business environment through strategic frameworks that consider market choices, investment and ownership modes, management processes, sustainability, and the role of government and industry in strategically promoting economic development. PREREQ: International Business majors with senior standing, BUS 334, INTBUS 230, or PERM/CHAIR.

**INTBUS 493 INTERNATIONAL BUSINESS INTERNSHIP (V-V-V)(F, S, SU).** Internships with local and overseas companies who work in international business are available to INTBUS majors who meet internship requirements. PREREQ: Admission to COBE, cumulative GPA of 2.5; business GPA of 3.0; a current résumé submitted to the INTBUS office; recommendation of faculty advisor and PERM/INST.

### NONPROF—Nonprofit Management

#### Lower Division

**NONPROF 240 INTRODUCTION TO NONPROFIT MANAGEMENT (3-0-3)(F, S, SU).** The course addresses the issues of managing nonprofit organizations. Issues concern personnel assessment, managing others, working with elected and appointed public officials, working with board members, volunteer management, working with media, solving problems, communicating supportively, understanding motivational processes, managing conflicts, grant writing, and building teams.

#### Upper Division

**NONPROF 340 VOLUNTEER MANAGEMENT AND THE NONPROFIT (3-0-3)(F, S, SU).** The practical, legal, and technical aspects of directing a volunteer program are addressed. Topics include the employment cycle of volunteers (including recruitment, selection, training, performance evaluation), trends in volunteerism, types of volunteers, building the volunteer/staff relationship, volunteer boards, and corporate volunteers. PREREQ: NONPROF 240 and upper-division class standing, or PERM/CHAIR.

**NONPROF 440 FUNDING FOR NONPROFITS (3-0-3)(F, S, SU).** Nonprofits require a unique structure of revenue that includes grant writing, major donor development, social enterprise, event planning, and more. This course will include the research, cultivation and stewardship of major donors as well as exploration of individual nonprofit budget structure and their unique revenue streams. With an emphasis on grant writing, students will be able to create a development plan for a nonprofit, identify funding sources, determine program needs, create a project-specific and general operating budget, define outcomes and benchmarks, and evaluate success. PREREQ: Upper-division standing and ENGL 212 or BUSCOM 201 or CMGT 201, or PERM/CHAIR.

**NONPROF 493 INTERNSHIP (V-V-V)(F, S, SU).** Internship credits are earned in supervised fieldwork specifically related to a student's major. To enroll in 493, a student must work in a nonprofit organization. PREREQ: NONPROF 340 or PERM/CHAIR.

# Department of Marketing

College of Business and Economics

Micron Business and Economics Building, Room 2220  
 (208) 426-3356 (phone)  
 marketing@boisestate.edu (email)  
<https://www.boisestate.edu/cobe-marketing/> (website)

*Chair and Professor:* Kirk Smith. *Professors:* Sarin, Sego. *Associate Professors:* Hunt, MacDonald. *Assistant Professors:* Hamby, Jones, Koppenhafer. *Visiting Professors:* Braig, Gabler. *Lecturers:* Bourff, Delana, Krutz, Wynne.

## Degrees Offered

- Bachelor of Business Administration in Marketing
  - Brand and Product Marketing Emphasis
  - Marketing Communications Emphasis
- Minor in Marketing

## Department Statement

Marketing majors can choose a general program of study or from one of two emphasis areas. The emphasis in Brand and Product Marketing prepares students to introduce and manage products and brands. The Marketing Communications emphasis prepares students for careers in advertising, digital marketing, social media, and promotions. All students, regardless of emphasis area, acquire skills in the major areas of consumer behavior, international marketing, professional selling, and marketing research in case their careers go in those directions.

Marketing students gain practical experience through class projects for client companies, nonprofit organizations, internships, and case studies. Graduates are prepared to identify and solve the business problems found in today's rapidly changing business environment.

## Admission Requirements

Students interested in pursuing a degree in the College of Business and Economics (COBE) must be a pre-business major and complete the COBE admission requirements prior to the declaration of a major in a degree completion program. Admission to COBE is required before a student may enroll in most upper-division business and economics courses.

For details on the COBE admission requirements, see Pre-Business on page 268.

## Degree Requirements

| Marketing<br>Bachelor of Business Administration  |         |
|---|---------|
| Course Number and Title   | Credits |
| University Foundations requirements indicated in bold. See page 48 for details and lists of approved courses. |         |
| <b>UF 100</b> Foundations of Intellectual Life  | 3       |
| <b>UF 200</b> Foundations of Ethics and Diversity   | 3       |
| <b>FW ENGL 101</b> Writing and Rhetoric I   | 3       |
| <b>FW ENGL 102</b> Writing and Rhetoric II  | 3       |
| <b>FC</b> Foundations of Oral Communication   | 3       |
| <b>FM MATH 160</b> Survey of Calculus or<br><b>FM MATH 170</b> Calculus I                                     | 4       |
| <b>FN</b> Foundations of Natural, Physical, & Applied Sciences course with lab                                | 4       |
| <b>FN</b> Foundations of Natural, Physical, & Applied Sciences course in a second field                       | 3-4     |
| <b>FA</b> Foundations of Arts course  | 3       |
| <b>FH</b> Foundations of Humanities course  | 3-4     |
| <b>FS ECON 201</b> Principles of Macroeconomics   | 3       |
| <b>FS</b> Foundations of Social Sciences course in a second field   | 3       |

|   |      |
|---|------|
| ACCT 205 Introduction to Financial Accounting   | 3    |
| ACCT 206 Introduction to Managerial Accounting  | 3    |
| BUS 101 Business for the New Generation   | 3    |
| BUS 202 The Legal Environment of Business   | 3    |
| BUS 301 Leadership Skills   | 3    |
| FF BUS 450 Business Policies  | 3    |
| BUSCOM 201 Global Business Communication  | 3    |
| BUSSTAT 207 Introduction to Business Analytics or MATH 254 Intro to Statistics  | 3    |
| BUSSTAT 208 Business Analytics  | 3    |
| ECON 202 Principles of Microeconomics   | 3    |
| ECON 303 Intermediate Microeconomics  | 3    |
| FINAN 303 Principles of Finance   | 3    |
| CoBE Computer Placement Exam or ITM 105 Spreadsheet Topics  | 0-2  |
| ITM 310 Business Intelligence   | 3    |
| MKTG 301 Principles of Marketing  | 3    |
| MKTG 307 Consumer Behavior  | 3    |
| MKTG 315 Marketing Insights   | 3    |
| MKTG 321 Professional Selling   | 3    |
| MKTG 407 Marketing Communication  | 3    |
| MKTG 430 International Marketing  | 3    |
| SCM 301 Principles of Supply Chain Management   | 3    |
| In addition, complete the following coursework to graduate with a BBA in Marketing (without an emphasis) or complete the courses listed under one of the emphases below to graduate with a BBA in Marketing with an emphasis. |      |
| MKTG 425 Marketing Planning Applications or MKTG 441 Brand Management   | 3    |
| 9 credits chosen from other upper-division marketing courses and/or a list of approved courses available from the department. A maximum of 3 internship credits is allowed.   | 9    |
| Electives to total 120 credits  | 6-10 |
| Total   | 120  |
| <b>Brand and Product Marketing Emphasis</b>   |      |
| MKTG 422 Innovation and New Product Development   | 3    |
| MKTG 424 Category Management  | 3    |
| MKTG 493 Internship or SCM 435 Project Management   | 3    |
| MKTG 441 Brand Management   | 3    |
| Electives to total 120 credits  | 6-10 |
| Total   | 120  |
| <b>Marketing Communications Emphasis</b>  |      |
| MKTG 401 Advertising Agency Operations  | 3    |
| MKTG 402 NSAC Advertising Competition or MKTG 493 Internship  | 3    |
| MKTG 425 Marketing Planning Applications  | 3    |
| MKTG 460 Digital Marketing  | 3    |
| Electives to total 120 credits  | 6-10 |
| Total   | 120  |
| All courses used toward the BBA in Marketing must have a grade of C- or better.   |      |

Students pursuing a BBA degree from the College of Business and Economics other than marketing, may earn a minor in marketing by satisfying the requirements listed below (in addition to the requirements of your major).

## MARKETING

If you are a non-business major interested in pursuing a marketing minor in the College of Business and Economics (COBE), you must be admitted to the college in addition to satisfying the marketing minor requirements listed below. Please see the COBE advising website: <https://www.boisestate.edu/cobe-studentadvising/> to obtain specific information about admission requirements, the application process and application deadlines.

| Marketing Minor                   |         |
|-----------------------------------|---------|
| Course Number and Title           | Credits |
| BUSSTAT 208 Business Analytics    | 3       |
| MATH 160 Survey of Calculus       | 3       |
| MKTG 301 Principles of Marketing  | 3       |
| MKTG 307* Consumer Behavior       | 3       |
| MKTG 315 Marketing Insights       | 3       |
| Upper-division marketing courses* | 3       |
| Total                             | 18      |

\*Requires admission to College of Business and Economics.

### Course Offerings

#### BUSCOM—Business Communication

##### BUSCOM 101 INTERCULTURAL BUSINESS LANGUAGE

**DEVELOPMENT (3-0-3)(S).** Multilingual and native English-speaking students will develop their proficiency in business-related English and view various business communication genres through a cultural lens. PREREQ: ENGL 123 or PERM/INST.

##### BUSCOM 201 GLOBAL BUSINESS COMMUNICATION (3-0-3)(F, S, SU).

Develop effective intercultural communication skills for business in the global economy. Students will practice expressive (writing and speaking) as well as receptive (reading and listening) skills. Student work will include developing credible, persuasive business cases that help guide informed business decisions. PREREQ: ENGL 102.

#### MKTG—Marketing

##### Upper Division

**MKTG 301 PRINCIPLES OF MARKETING (3-0-3)(F, S).** Understand how to segment markets; target customer groups; and position an organization's offerings via integrated product, price, promotion, and distribution decisions. PREREQ: Business/pre-business majors, BUSCOM 201 for non-business majors or for Business and Economic Analytics major, ENGL 102 and ITM 105 or successful completion of the COBE Computer Placement Exam for ITM 105.

**MKTG 307 CONSUMER BEHAVIOR (3-0-3)(F, S).** Understand the process by which people make consumption decisions, and the consequences of these decisions on individuals and society. Examine how internal (e.g., cognitive, emotional) and external (e.g., sociocultural, situational) factors drive consumption behaviors and decisions. PREREQ: Admission to COBE. PRE/COREQ: MKTG 301.

**MKTG 315 MARKETING INSIGHTS (3-0-3)(F, S).** Generate consumer insights via the marketing research process to support management decision-making and solve marketing problems. Define the research problems, develop research plans, collect data, analyze the data, and communicate recommendations. Course requires statistical skills. Enroll in this course soon after completion of BUSSTAT 208. PREREQ: Admission to COBE, or Economics BA or Business and Economic Analytics major, BUSSTAT 208 or MATH 361, and MKTG 301. PRE/COREQ: MATH 160 or higher.

**MKTG 321 PROFESSIONAL SELLING (3-0-3)(F, S).** Understand the sales process, ethical selling techniques, digital tools, and careers in sales. Learn to initiate and build long-term business-to-business relationships. PREREQ: Admission to COBE or Economics BA major.

**MKTG 401 ADVERTISING AGENCY OPERATIONS (3-0-3)(F, S).** Understand how an advertising agency works, conduct market research, generate insights for creative action, and write a strategy and communications brief for a national brand. PREREQ: MKTG 301 or PERM/INST.

**MKTG 402 NSAC ADVERTISING COMPETITION (3-0-3)(S).** Function as an agency to develop a comprehensive advertising campaign for a national brand. Explore a full range of communication channels. Pitch campaign to client and industry judges at the American Advertising Federation's National Student Advertising Competition (NSAC). PREREQ: PERM/INST.

**MKTG 407 MARKETING COMMUNICATION (3-0-3)(F, S).** Develop comprehensive marketing communication strategies which may include advertising, sales promotions, event sponsorships, direct marketing, public relations, branding, and social and digital media. Consider relevant social, cultural, and ethical issues while developing your integrated marketing communication plan. PREREQ: MKTG 307.

**MKTG 420 MARKETING STRATEGY (3-0-3)(F).** Apply marketing principles to solve organizational and/or social problems. Identify problems, provide potential solutions, and defend recommended marketing strategy. PREREQ: Admission to COBE, MKTG 301.

**MKTG 422 INNOVATION AND NEW PRODUCT DEVELOPMENT (3-0-3)(F, S).** Develop new product and customer experience innovations by applying design thinking concepts. Iterate solutions that best meet customer needs while staying within the bounds of business constraints. PREREQ: MKTG 301, MKTG 307.

**MKTG 424 CATEGORY MANAGEMENT (3-0-3)(F, S).** Use data-driven shopper insights and an understanding of customer behavior to create value for brands and retailers. This experiential course uses real data in partnership with major Boise-area retailers. PREREQ: MKTG 307 PRE/COREQ: MKTG 315.

**MKTG 425 MARKETING PLANNING APPLICATIONS (3-0-3)(F, S).** Capstone Course. Create a comprehensive marketing plan and present best course of action for a live-case client. PREREQ: Admission to COBE, Marketing major/minor, senior standing.

**MKTG 430 INTERNATIONAL MARKETING (3-0-3)(F, S).** Identify opportunities and develop marketing strategies that cross national and cultural borders. PREREQ: Admission to COBE, MKTG 301.

**MKTG 441 BRAND MANAGEMENT (3-0-3)(F, S).** Capstone Course. Build, measure, and manage a brand. PREREQ: Marketing major/minor, senior standing, MKTG 301.

**MKTG 442 SPORTS MARKETING (3-0-3)(Intermittently).** Apply marketing principles and concepts including target marketing, segmentation, and positioning to the sports and entertainment industries. Identify critical issues faced by a local sports brand, design solutions, and recommend a strategy to overcome them that includes advertising, promotion, publicity and social media. PREREQ: Admission to COBE, MKTG 301.

**MKTG 460 DIGITAL MARKETING (3-0-3)(F, S).** Understand the role of digital tools such as web design, web analytics, search engine optimization, email marketing, social media, and online advertising in marketing strategy. PREREQ: Admission to COBE, MKTG 301.

**MKTG 493 INTERNSHIP (V-V-V)(F, S, SU).** Complete supervised fieldwork specifically related to a student's major. Course may be repeated, max 6 credits. (Only 3 of the 6 credits can be used as upper-division elective credit) PREREQ: Admission to COBE, MKTG 301 and PERM/INST.

**MKTG 498 SEMINAR IN CONTEMPORARY TOPICS IN MARKETING (Variable Credit)(Intermittently).** Study topics of current interest in marketing. Topics selected based on student interests and faculty expertise. PREREQ: Admission to COBE, MKTG 301.



# Department of Mathematics

College of Arts and Sciences

Mathematics Building, Room 235

(208) 426-1172 (phone)

(208) 426-1356 (fax)

office@math.boisestate.edu (email)

<https://www.boisestate.edu/math/> (website)

*Chair and Associate Professor:* Uwe Kaiser. *Professors:* Babinkostova, Bullock, Cavey, Holmes, J. Lee, Mead, Scheepers, Wright, Zubik-Kowal. *Associate Professors:* Brill, Calhoun, Champion, Coskey, Harlander, M. Kinzel, Ko, Qu, Teitler, Wang. *Assistant Professors:* Clemens, Kopera, *Clinical Assistant Professor:* Johnson. *Clinical Assistant Professors:* Ultman. *Lecturers:* Andrews, Crow, Dorsey, T. Kinzel, M. Lee, Schneider, Sheehan, Skriletz, Smith, Velasquez. *Mathematics Learning Center Director:* Gary Hagerty. *Mathematics Learning Center Assistant Director:* Balfour. *Mathematics Learning Center Lecturers:* Kruse, Martinez, McDaniel, Wayne, Willoughby, Wilson.

## Degrees Offered

- Bachelor of Science in Applied Mathematics
  - Statistics Emphasis
- Bachelor of Science in Mathematics
  - Secondary Education Emphasis
- Minor in Applied Mathematics
- Minor in Mathematics
- Minor in Mathematics Teaching Endorsement

## Department Statement

Mathematics is concerned with abstraction, precision, patterns, and problem-solving and is a theoretical discipline with a wide array of applications.

The requirements for majoring in Applied Mathematics and Mathematics degrees are more flexible; they require a certain amount of breadth in mathematical preparation but allow a student to choose which area or areas of mathematics to study in more depth. Both of these degrees require a two course sequence in an application area or a physical science. Students should give careful consideration of their application area or science sequence early in their degree program because it may affect their FN and FS requirements

Students pursuing the BS in Applied Mathematics may choose an area of emphasis in statistics by completing additional 9 credits in designated statistics courses, none of which may count toward their major. Students who completed an area of emphasis in statistics must have a demonstrated knowledge and understanding of statistical theory, techniques and methodologies, working with real data using computational statistical software, and understanding of data analysis. An area of emphasis in statistics provides a window of job opportunities in business, government, industry and health sectors, and further studies in statistics.

The emphasis in Secondary Education option prepares students to teach mathematics in grade 6-12. It combines a broad background in mathematics with a firm foundation in educational theory and methodology. Students completing this emphasis must complete all requirements associated with the IDoTeach program.

## Degree Requirements

| Applied Mathematics<br>Bachelor of Science  |         |
|---|---------|
| Course Number and Title   | Credits |
| University Foundations requirements indicated in bold. See page 48 for details and lists of approved courses. |         |
| <b>UF 100</b> Foundations of Intellectual Life  | 3       |
| <b>UF 200</b> Foundations of Ethics and Diversity   | 3       |
| <b>FW ENGL 101</b> Writing and Rhetoric I   | 3       |
| <b>FW ENGL 102</b> Writing and Rhetoric II  | 3       |

|   |      |
|---|------|
| FC Foundations of Oral Communication  | 3    |
| FM MATH 170 Calculus I  | 4    |
| FN Foundations of Natural, Physical, & Applied Sciences course with lab   | 4    |
| FN Foundations of Natural, Physical, & Applied Sciences course in a second field  | 3-4  |
| FA Foundations of Arts course   | 3    |
| FH Foundations of Humanities course   | 3-4  |
| FS Foundations of Social Sciences course  | 3    |
| FS Foundations of Social Sciences course in a second field  | 3    |
| One (1) of the following sequences*:<br>BIOL 191 Biology I: Intro to Cell & Molecular Biology and BIOL 192 Biology II: Introduction to the Diversity of Life<br>CHEM 111, 111L-112, 112L General Chemistry I & II & Labs<br>CS 121 Computer Science I and CS 221 Computer Science II<br>ECON 201 Principles of Macroeconomics and ECON 202 Principles of Microeconomics<br>ENGR 210 Engineering Mechanics I and ENGR 220 Engineering Mechanics II<br>GEOL 101 Physical Geology and<br>GEOS 200 Evolution of Western North America or<br>GEOS 212 Water in the West or<br>GEOS 220 Seeing the Unseen: an Intro to Geophysics<br>PHYS 211, 211L-212, 212L Physics I & II with Calculus & Labs<br>(*Choice of sequence may significantly impact FN, FS, and CS requirements. Contact an advisor. ) | 6-10 |
| MATH 175 Calculus II  | 4    |
| MATH 189 Discrete Mathematics   | 4    |
| MATH 265 Intro to Programming in Mathematics  | 3    |
| MATH 275 Multivariable and Vector Calculus  | 4    |
| MATH 287 Mathematical Proofs and Methods  | 3    |
| MATH 301 Introduction to Linear Algebra   | 3    |
| MATH 314 Foundations of Analysis  | 3    |
| MATH 333 Differential Equations with Matrix Theory  | 4    |
| MATH 361 Probability and Statistics I   | 3    |
| MATH 365 Introduction to Computational Mathematics  | 3    |
| FF MATH 401 Senior Thesis in the Mathematical Sciences  | 1    |
| MATH 465 Numerical Methods I  | 3    |
| MATH 488 Senior Outcome Assessment  | 0    |
| Two (2) of the following, with at least one (1) at the 400-level:<br>MATH 307 Foundations of Cryptology<br>MATH 308 Introduction to Algebraic Cryptology<br>MATH 403 Linear Algebra<br>MATH 408 Advanced Asymmetric Cryptography & Cryptanalysis<br>MATH 409 Symmetric Key Cryptography & Cryptanalysis<br>MATH 414 Real Analysis<br>MATH 426 Complex Variables<br>MATH 427 Intro to Applied Math for Scientists & Engineers<br>MATH 433 Ordinary Differential Equations<br>MATH 436 Partial Differential Equations<br>MATH 462 Probability and Statistics II<br>MATH 471 Data Analysis<br>MATH 472 Computational Statistics<br>MATH 480 Senior Project   | 6    |
| In addition, complete either the following coursework to graduate with a BS in Applied Mathematics (without an emphasis) or complete the courses listed under the Statistics emphasis below to graduate with a BS in Applied Mathematics with an emphasis in Statistics.  |      |
| Upper-division electives to total 40 credits  | 14   |

## MATHEMATICS

|  |       |
|--|-------|
| Electives to total 120 credits   | 12-18 |
| Total  | 120   |
| <b>Statistics Emphasis</b>   |       |
| Students may complete an emphasis in Statistics by completing the three courses below, none of which can be counted toward the six elective credits required of the BS in Applied Mathematics major. |       |
| MATH 462 Probability and Statistics II   | 3     |
| MATH 471 Data Analysis   | 3     |
| MATH 472 Computational Statistics  | 3     |
| Upper-division electives to total 40 credits   | 5     |
| Electives to total 120 credits   | 12-18 |
| Total  | 120   |
| All courses required for the Applied Mathematics major must have grades of C- or better.   |       |

The Mathematics, Secondary Education Emphasis combines content knowledge, theories of learning and human development, study of curriculum, and methodology to help students develop the knowledge, skills and dispositions essential for success in secondary school teaching. The program involves participation in the IDoTeach STEM-ED curriculum which includes early and sustained field experiences for students. Candidates who complete the Secondary Education Emphasis program have demonstrated evidence of meeting the Idaho Beginning Teacher Standards and are usually eligible for recommendation for state certification.

Students wishing to pursue this degree plan must meet the requirements and standards for admission to teacher education, which are described fully under STEM Education IDoTeach STEM Teaching Certification or at <https://www.boisestate.edu/idoteach/>. Students must meet and maintain all knowledge, skill, and disposition requirements to remain in the program.

| Mathematics<br>Bachelor of Science  |                |
|---|----------------|
| <i>Course Number and Title</i>  | <i>Credits</i> |
| University Foundations requirements indicated in bold. See page 48 for details and lists of approved courses.                             |                |
| <b>UF 100</b> Foundations of Intellectual Life  | 3              |
| <b>UF 200</b> Foundations of Ethics and Diversity   | 3              |
| <b>FW ENGL 101</b> Writing and Rhetoric I   | 3              |
| <b>FW ENGL 102</b> Writing and Rhetoric II  | 3              |
| <b>FC</b> Foundations of Oral Communication   | 3              |
| <b>FM MATH 170</b> Calculus I   | 4              |
| Choose from the following:  |                |
| <b>FN BIOL 191</b> Biology I: Intro to Cell & Molecular Biology   | 4-5            |
| <b>FN CHEM 111, 111L</b> General Chemistry I & Lab  |                |
| <b>FN PHYS 211, 211L</b> Physics I with Calculus & Lab  |                |
| <b>FN</b> Foundations of Natural, Physical, & Applied Sciences course in a second field   | 3-4            |
| <b>FA</b> Foundations of Arts course  | 3              |
| <b>FH</b> Foundations of Humanities course  | 3-4            |
| <b>FS ED-CIFS 201</b> Education, Schooling, and Society (Secondary Education Emphasis) or <b>FS</b> Foundations of Social Sciences course | 3              |
| <b>FS</b> Foundations of Social Sciences course in a second field   | 3              |
| One (1) of the following:   |                |
| <b>BIOL 192</b> Biology II: Introduction to the Diversity of Life   | 4-5            |
| <b>CHEM 112, 112L</b> General Chemistry II & Lab  |                |
| <b>PHYS 212, 212L</b> Physics II with Calculus & Lab  |                |
| <b>MATH 175</b> Calculus II   | 4              |

|   |       |
|---|-------|
| MATH 265 Intro to Programming in Mathematics  | 3     |
| MATH 275 Multivariable and Vector Calculus  | 4     |
| MATH 287 Mathematical Proofs and Methods  | 3     |
| MATH 301 Introduction to Linear Algebra   | 3     |
| MATH 305 Intro to Abstract Algebra & Number Theory  | 3     |
| MATH 314 Foundations of Analysis  | 3     |
| MATH 361 Probability and Statistics I   | 3     |
| <b>FF MATH 401</b> Senior Thesis in the Mathematical Sciences   | 1     |
| MATH 488 Senior Outcome Assessment  | 0     |
| In addition, complete either the following coursework to graduate with a BS in Mathematics (without an emphasis) or complete the courses listed under the Secondary Education emphasis below to graduate with a BS in Mathematics with an emphasis in Secondary Education.  |       |
| MATH 333 Differential Equations with Matrix Theory  | 4     |
| Three (3) of the following, with at least two (2) at the 400-level, including at least one (1) of MATH 403, MATH 405, MATH 406, MATH 411, or MATH 414:<br>MATH 307 Foundations of Cryptology<br>MATH 308 Introduction to Algebraic Cryptology<br>MATH 311 Foundations of Geometry<br>MATH 387 Introduction to Combinatorics<br>MATH 402 Logic and Set Theory<br>MATH 403 Linear Algebra<br>MATH 405 Abstract Algebra<br>MATH 406 Number Theory<br>MATH 408 Advanced Asymmetric Cryptography & Cryptanalysis<br>MATH 409 Symmetric Key Cryptography & Cryptanalysis<br>MATH 411 Introduction to Topology<br>MATH 414 Real Analysis<br>MATH 426 Complex Variables<br>MATH 433 Ordinary Differential Equations<br>MATH 462 Probability and Statistics II | 9     |
| Upper-division electives to total 40 credits  | 14    |
| Electives to total 120 credits  | 20-24 |
| Total   | 120   |
| <b>Secondary Education Emphasis</b>   |       |
| MATH 211 Geometry for the Classroom   | 3     |
| MATH 250 Algebraic & Proportional Reasoning for Teachers  | 3     |
| MATH 261 Statistics for the Classroom   | 3     |
| MATH 311 Foundations of Geometry  | 3     |
| MATH 370 Functions and Modeling   | 3     |
| MATH 405 Abstract Algebra or<br>MATH 406 Number Theory  | 3     |
| STEM-ED 101 Step 1: Inquiry Approaches to Teaching  | 1     |
| STEM-ED 102 Step 2: Inquiry-based Lesson Design   | 1     |
| STEM-ED 210 Knowing & Learning in Math & Science  | 3     |
| STEM-ED 220 Philosophical Perspectives on Science and Mathematics   | 3     |
| STEM-ED 310 Classroom Interactions  | 3     |
| STEM-ED 410 Project-based Instruction   | 3     |
| STEM-ED 480 Apprentice Teaching   | 6     |
| Upper-division electives to total 40 credits  | 6     |
| Electives to total 120 credits  | 4-7   |
| All courses required for the Mathematics major must have grades of C- or better.  |       |

| Applied Mathematics Minor  |                |
|--|----------------|
| <i>Course Number and Title</i>   | <i>Credits</i> |
| MATH 170 Calculus I  | 4              |
| MATH 175 Calculus II   | 4              |
| MATH 275 Multivariable and Vector Calculus   | 4              |
| MATH 365 Introduction to Computational Mathematics   | 3              |
| Two (2) of the following, includes at least one (1) of MATH 301 or MATH 333:<br>MATH 301 Introduction to Linear Algebra<br>MATH 333 Differential Equations with Matrix Theory<br>MATH 360 Engineering Statistics or<br>MATH 361 Probability & Statistics I<br>MATH 403 Linear Algebra<br>MATH 426 Complex Variables<br>MATH 433 Ordinary Differential Equations<br>MATH 436 Partial Differential Equations<br>MATH 462 Probability and Statistics II<br>MATH 465 Numerical Methods I | 6-7            |
| Total  | 21-22          |
| All courses required for the Applied Mathematics minor must have grades of C- or better.   |                |

| Mathematics Minor   |                |
|---|----------------|
| <i>Course Number and Title</i>  | <i>Credits</i> |
| MATH 170 Calculus I   | 4              |
| MATH 175 Calculus II  | 4              |
| MATH 189 Discrete Mathematics   | 4              |
| MATH 275 Multivariable and Vector Calculus  | 4              |
| MATH 287 Mathematical Proofs and Methods  | 3              |
| Upper-division mathematics (MATH prefix except for MATH 491 or higher), including at least two (2) of the following:<br>MATH 301 Introduction to Linear Algebra<br>MATH 305 Intro to Abstract Algebra & Number Theory<br>MATH 307 Foundations of Cryptology<br>MATH 308 Introduction to Algebraic Cryptology<br>MATH 311 Foundations of Geometry<br>MATH 387 Introduction to Combinatorics<br>MATH 403 Linear Algebra | 9-10           |
| Total   | 27-28          |
| All courses required for the Mathematics minor must have grades of C- or better.  |                |

| Mathematics Teaching Endorsement Minor  |                |
|---|----------------|
| <i>Course Number and Title</i>  | <i>Credits</i> |
| MATH 170 Calculus I   | 4              |
| MATH 175 Calculus II  | 4              |
| MATH 189 Discrete Mathematics   | 4              |
| MATH 211 Geometry for the Classroom   | 3              |
| MATH 261 Statistics for the Classroom   | 3              |
| MATH 287 Mathematical Proofs and Methods  | 3              |
| MATH 305 Intro to Abstract Algebra & Number Theory or<br>MATH 301 Introduction to Linear Algebra  | 3              |
| MATH 370 Functions and Modeling   | 3              |
| Total   | 27             |
| This Teaching Endorsement Minor does not certify you to teach. For more information on becoming a teacher please contact the Office of Teacher Education. |                |
| All courses required for the Mathematics Teaching Endorsement minor must have grades of C- or better.   |                |

| Middle School Mathematics Endorsement  |                |
|--|----------------|
| <i>Course Number and Title</i>   | <i>Credits</i> |
| MATH 157 Number and Operations for Teachers  | 4              |
| MATH 211 Geometry for the Classroom  | 3              |
| MATH 250 Algebraic and Proportional Reasoning for Teachers                                       | 3              |
| MATH 257 Geometry and Measurement for Teachers   | 4              |
| MATH 261 Statistics for the Classroom  | 3              |
| ED-CIFS 331 Elementary Mathematics Curriculum & Instruction                                      | 3              |
| STEM-ED 310* Classroom Interactions  | 3              |
| Total  | 23             |
| *Students not admitted to the STEM Education program will need to receive instructor permission. |                |

### Course Offerings

Evening and summer sections of large-enrollment, multi-section service courses are offered on a regular basis. For other courses, evening and summer sections are offered only upon sufficient demand. Students should contact the department well in advance (at least a semester) to request such course offering. Some lower-division courses are offered through the Mathematics Learning Center (contact: Mathematics Building, Room 121).

### MATH—Mathematics

#### Lower Division

**MATH 103 MATHEMATICS TRANSITION FOR SUCCESS (3-0-3)(F, S, SU).** Focuses on self-efficacy and academic skills related to success in university level mathematics. To build self-efficacy and academic skills, students progress through the course material based on individual needs in preparation for enrollment in the next level math course required by the student's major (MATH 123/ MATH 133/ MATH 157). Upon completion of this course, students should see improvement of basic math skills, an increase in the confidence in mathematical abilities, and advancement in ability to relate math to real-life applications.

**MATH 108 INTERMEDIATE ALGEBRA (3-0-3)(F, S, SU).** Radicals, negative and rational exponents, completing the square, quadratic formula. Linear and quadratic inequalities (including absolute value); simple systems of equations and inequalities. Multiplication of polynomials; basic factorization techniques. Manipulation of rational expressions, compound fractions, rationalization of denominator (or numerator). Introduction to the concept of function, graphs of functions and equations. Introduction to exponential and logarithmic expressions. Math 108 is NOT a FM course, and cannot be taken for credit after any MATH course numbered MATH 143 or higher. PREREQ: MATH 103 or satisfactory placement score.

**MATH 123 MATH IN MODERN SOCIETY (3-0-3)(F, S, SU)(FM).** Survey of quantitative reasoning topics including deductive and inductive reasoning, benchmarks, and sense of scale. Topics will be applied in a conceptual way to interpretation of graphical information, descriptive and inferential statistics, elementary probability, and exponential growth. PREREQ: MATH 103 or satisfactory placement score.

**MATH 133 ELEMENTARY MODELS WITH FUNCTIONS (3-0-3)(F, S, SU)(FM).** Development of mathematical modeling as a tool to interpret information, understand mathematical strategies and apply mathematical reasoning. Modeling will be the outcome of focus on: linear, quadratic and exponential functions; systems of equations; introduction to early ideas of probability and statistics; and finance. PREREQ: MATH 103 or satisfactory placement score.

**MATH 143 COLLEGE ALGEBRA (3-0-3)(F, S, SU)(FM).** Emphasis on the concept of functions as mathematical entities; domain, range, algebraic operations, composition, inverses, graphing. Polynomial functions, division of

## MATHEMATICS

polynomials, roots, factor theorem, complex numbers, fundamental theorem of algebra. Rational functions and asymptotes. Logarithmic and exponential functions. Multi-level algebraic manipulation of functional expressions – e.g., difference quotients. Conic sections and other topics from analytic geometry as time permits. Mathematical modeling based on Business and Science applications using algebraic functions will be prominent. PREREQ: MATH 108 or MATH 133 or satisfactory placement score.

### **MATH 144 PRECALCULUS II: TRIGONOMETRIC FUNCTIONS**

**(2-0-2)(F, S, SU).** Right-triangle and circular function approaches to trigonometry. Trigonometric identities. Graphs of trigonometric functions; amplitude, frequency, phase shift. Inverse trigonometric functions and their graphs. Polar coordinates and polar representations of complex numbers. PRE/COREQ: MATH 143 or MATH 149 or satisfactory placement score.

### **MATH 149 PRECALCULUS: FUNCTIONS FOR BUSINESS (3-0-3)(F, S, SU)(FM).**

Provides algebra and function skills for business. Topics include: polynomial functions, composition of functions, inverse functions, logarithmic functions, exponential functions, linear programming, counting methods and an introduction to probability. This course will instruct using Excel as the primary technology tool. PREREQ: MATH 108 or MATH 133 or satisfactory placement score or COREQ: MATH 149P.

### **MATH 149P PRECALCULUS: FUNCTIONS FOR BUSINESS LAB**

**(0-2-1)(F, S).** Co-requisite lab component paired with MATH 149. Intensive study of mathematical skills, concepts and strategies to support and supplement MATH 149. PREREQ: satisfactory placement score or MATH 103 with a grade of A- or better. COREQ: MATH 149.

### **MATH 153 STATISTICAL REASONING (3-0-3)(F/S/SU)(FM).**

Pre-calculus treatment of descriptive statistics, confidence intervals, hypothesis testing, simple linear regression and correlation, and basic data collection concepts. Emphasis on reasoning, interpretation, and communicating ideas in the context of a wide variety of disciplines with computer software for computations. Carries no credit after MATH 254. PREREQ: MATH 103 or satisfactory placement score.

### **MATH 157 NUMBER AND OPERATIONS FOR TEACHERS (4-0-4)(F, S, SU).**

Laboratory-based course that addresses number meanings, representations, operations, algorithms, and properties. Interpreting mathematical reasoning and developing non-standard algorithms are central themes. PREREQ: MATH 108 or MATH 133 or satisfactory placement score.

### **MATH 160 SURVEY OF CALCULUS (4-0-4)(F, S, SU)(FM).**

A survey of the essentials of calculus, intended mainly for students in business and social sciences; emphasis on applications to such areas. Basic concepts and computational techniques for functions, derivatives, and integrals, with emphasis on polynomial, rational, exponential and logarithmic functions. Very brief introduction to calculus of functions of several variables. MATH 160 cannot be taken for credit after MATH 170. PREREQ: MATH 143 or MATH 149 or satisfactory placement score.

### **MATH 170 CALCULUS I (4-0-4)(F, S, SU)(FM).**

Informal limits and continuity. Derivatives and antiderivatives, including trigonometric, exponential, and logarithmic functions. The relationship between a function, its derivative, and its antiderivative. Integration and the fundamental theorem of calculus. Applications of calculus to physical models, geometry, approximation, and optimization. PREREQ: MATH 143 or MATH 149, or satisfactory placement score. PRE/COREQ: MATH 144 or satisfactory placement score.

### **MATH 175 CALCULUS II (4-0-4)(F, S, SU).**

A continuation of MATH 170. Techniques of integration and calculation of antiderivatives. Applications of integration to physical models, including calculation of volume, moment, mass, and centroid. Informal convergence of sequences and series of real numbers. Taylor series, Taylor polynomials, and applications to approximation. Vectors, parametric curves, and polar coordinates. PREREQ: MATH 143, MATH 144 and MATH 170, or corresponding satisfactory placement score.

**MATH 189 DISCRETE MATHEMATICS (4-0-4)(F, S, SU).** Content drawn from propositional and predicate logic; proof logic, induction and recursion,

elementary set theory; functions and relations; combinatorial enumeration; graph theory and basic elementary number theory. PREREQ: MATH 170.

### **MATH 211 GEOMETRIC REASONING IN THE SECONDARY**

**CLASSROOM (3-0-3)(F/S).** Laboratory-based course that involves the study of geometry in relation to teaching secondary mathematics. Topics include: congruence, inductive and deductive reasoning, dynamic geometry technology, transformations, and applications of geometry and measurement. It is recommended that this course be taken prior to MATH 311. PREREQ: MATH 143 or MATH 157.

### **MATH 250 ALGEBRAIC AND PROPORTIONAL REASONING FOR**

**TEACHERS (3-0-3)(F/S).** Laboratory-based course that addresses the development of algebraic and proportional reasoning. Interpreting middle grades' student mathematical reasoning, developing conjectures and sensible arguments are central themes. PREREQ: MATH 143 or MATH 157.

### **MATH 254 INTRODUCTION TO STATISTICS (3-0-3)(F, S, SU)(FM).**

Pre-calculus treatment of descriptive statistics, confidence intervals, hypothesis testing, simple linear regression, correlation, introduction to probability. Emphasis on reasoning, problem solving, communicating ideas, and applications to a wide variety of disciplines. Use of computer statistics packages and calculators to handle computations. Carries no credit after MATH 360 or MATH 361. PREREQ: MATH 108 or MATH 133 or satisfactory placement score.

### **MATH 257 GEOMETRY AND MEASUREMENT FOR TEACHERS**

**(4-0-4)(F, S)(FM).** Laboratory-based course that addresses geometric reasoning and models, along with principles of measurement. Interpreting mathematical reasoning, developing conjectures and sensible arguments are central themes. PREREQ: MATH 157.

### **MATH 261 STATISTICAL REASONING IN THE SECONDARY**

**CLASSROOM (3-0-3)(F/S).** Laboratory-based course that addresses the statistical processes of formulating questions, collecting and analyzing data, and interpreting results. Through activities and projects, students will use modern statistical methods while learning about social and classroom issues affecting the teaching and learning of secondary level statistics. PREREQ: MATH 143 or MATH 157.

### **MATH 265 INTRODUCTION TO PROGRAMMING IN**

**MATHEMATICS (3-0-3)(F, S).** Introduces basic programming skills and algorithmic concepts commonly used in mathematics. Programming concepts of flow-control (loops, conditional statements), design of functions, operations on arrays, floating point arithmetic and reading and writing data. Algorithmic concepts of recursion, iteration, numerical convergence, and working with data. Presentation of mathematical ideas and results using interactive computing platforms. Additional content drawn from applied and computational mathematics, cryptography, and statistics. PREREQ: MATH 170.

### **MATH 275 MULTIVARIABLE AND VECTOR CALCULUS (4-0-4)(F, S, SU).**

Vector algebra and geometry, functions of several variables, partial and directional derivatives, gradient, chain rule, optimization, multiple and iterated integrals. Parametric curves and surfaces, vector fields, divergence and curl, line and surface integrals, Green's, Stokes' and divergence theorems. Use of software such as Maple or Mathematica for visualization, exploration and solutions of real-world problems. PREREQ: MATH 175.

### **MATH 287 MATHEMATICAL PROOFS AND METHODS (3-0-3)(F, S).**

An introduction to formal mathematical language, mathematical experimentation, mathematical proofs, mathematical communication, and technologies supporting the above. Core content includes sets and functions, elementary number theory and induction, and distances and topology on the real line. Additional content drawn from logic, combinatorics and probability, graph theory, and modular arithmetic. PREREQ: MATH 175 and MATH 189.

### **MATH 291 PUTNAM PRACTICE I (1-0-1)(F).**

Solving problems from previous Putnam examinations and related problems. May be repeated once for credit. (Pass/Fail.)

## Upper Division

**MATH 301 INTRODUCTION TO LINEAR ALGEBRA (3-0-3)(F, S).**

Linear algebra from a matrix perspective with applications from the applied sciences. Topics include the algebra of matrices, methods for solving linear systems of equations, eigenvalues and eigenvectors, matrix decompositions, vector spaces, linear transformations, least squares, and numerical techniques. PREREQ: MATH 175.

**MATH 305 INTRODUCTION TO ABSTRACT ALGEBRA AND**

**NUMBER THEORY (3-0-3)(F, S).** Division algorithm. Greatest common divisor and Euclidean algorithm. Solving linear modular equations, Chinese Remainder Theorem, Primitive roots, solving modular quadratic equations. Introduction to group theory: motivation, definitions and basic properties. Finite cyclic groups, permutation groups, isomorphisms, Lagrange's Theorem. PREREQ: MATH 189 and COREQ MATH 287.

**MATH 307 FOUNDATIONS OF CRYPTOLOGY (3-0-3)(F).** Introduction to security (authentication, confidentiality, message integrity and non-repudiation) and the mathematical mechanisms to achieve them. Topics include concepts in cryptography and cryptanalysis, symmetric key systems, public key systems, key management, public-key infrastructure (PKI), digital signatures, authentication schemes and non-repudiation. PREREQ: MATH 189 or MATH 265.

**MATH 308 INTRODUCTION TO ALGEBRAIC CRYPTOLOGY (3-0-3)**

**(S).** Introduction to groups, fields and polynomial rings. The study of enciphering/deciphering and cryptanalysis of the Elliptic Curve, LUC, and NTRU public key cryptosystems. Group based authentication and digital signature schemes and anonymity protocols. PREREQ: MATH 189 or MATH 265.

**MATH 311 FOUNDATIONS OF GEOMETRY (3-0-3)(S).** Euclidean, non-Euclidean, and projective geometries from an axiomatic point of view. COREQ: MATH 287.

**MATH 314 FOUNDATIONS OF ANALYSIS (3-0-3)(F, S).** The real number system, completeness and compactness, sequences, continuity, foundations of the calculus. PREREQ: MATH 287.

**MATH 333 DIFFERENTIAL EQUATIONS WITH MATRIX THEORY**

**(4-0-4)(F, S, SU).** Use of differential equations to model phenomena in sciences and engineering. Solution of differential equations via analytic, qualitative and numerical techniques. Linear and nonlinear systems of differential equations. Introduction to matrix algebra, determinants, eigenvalues, and solutions of linear systems. Laplace transforms. PREREQ: MATH 175.

**MATH 337 (CS 330)(ECE 337)(ENGR 337)(ME 337) INTRODUCTION**

**TO SECURITY IN CYBER-PHYSICAL SYSTEMS (3-0-3)(F).** Overview of systems security: hardware, software, encryption, and physical security. Includes multiple modules: system security, physical issues in security, hardware and firmware security issues, industrial control, and all things connected to the internet. PREREQ: CS 117 or CS 121 or MATH 265, PHYS 211, and MATH 189 or MATH 360 or MATH 361.

**MATH 360 ENGINEERING STATISTICS (3-0-3)(F, S).** Calculus based survey of statistical techniques used in Engineering. Data collection and organization, basic probability distributions, sampling, confidence intervals, hypothesis testing, process control, simple regression techniques, design of experiments. Emphasis on examples and applications to engineering, including product reliability, robust design and quality control. Credit cannot be earned for both MATH 360 and MATH 361. PREREQ: MATH 175.

**MATH 361 PROBABILITY AND STATISTICS I (3-0-3)(F, S, SU).**

Calculus-based treatment of probability theory, random variables, distributions, conditional probability, central limit theorem, descriptive statistics, estimation, tests of hypotheses, and regression. Differs from MATH 360 by providing more thorough coverage of theoretical foundations and wider variety of applications drawn from natural and social sciences as well as engineering. Credit cannot be earned for both MATH 360 and MATH 361. PREREQ: MATH 175.

**MATH 365 INTRODUCTION TO COMPUTATIONAL MATHEMATICS (3-0-3)(F, S).** Uses Matlab and Maple software packages from a problem-

oriented perspective with examples from the applied sciences. Matrix computations, solving linear systems, interpolation, optimization, least squares, discrete Fourier analysis, dynamical systems, computational efficiency, and accuracy. Emphasis on critical thinking and problem solving using both numerical and symbolic software. PREREQ: MATH 265 or CS 121 or programming course, and MATH 301 or MATH 333.

**MATH 370 FUNCTIONS AND MODELING (3-0-3)(F/S).** Laboratory-based course that involves the study of mathematical modeling in relation to teaching secondary mathematics. Mathematical topics include data collection, rate of change, and applications of polynomial, exponential, logarithmic, and trigonometric functions. Course also includes investigating research on student thinking and the use of technology. PREREQ: MATH 170 and one of the following: MATH 211 or MATH 250 or MATH 261.

**MATH 387 INTRODUCTION TO COMBINATORICS (3-0-3)(S)(Odd years).** Covers basic enumerative techniques and fundamentals of graph theory. Additional content may include further topics in enumerative techniques or graph theory, extremal combinatorics, Ramsey theory, the probabilistic method, or combinatorial algorithms. PREREQ: MATH 189.

**MATH 401 SENIOR THESIS IN THE MATHEMATICAL SCIENCES**

**(1-0-1)(F, S)(FF).** Independent mathematical work in an active and modern subject area of the mathematical sciences, guided by an official research faculty member in the department of mathematics and culminating in a written thesis presented in an appropriate public forum. PREREQ: Senior standing and PERM/INST.

**MATH 402 LOGIC AND SET THEORY (3-0-3)(S).** Structured as three five-week components: formal logic, set theory, and topics to be determined by the instructor. The logic component includes formalization of language and proofs, the completeness theorem, and the Lowenheim-Skolem theorem. The set theory component includes orderings, ordinals, the transfinite recursion theorem, and the Axiom of Choice and some of its equivalents. PREREQ: MATH 314.

**MATH 403 LINEAR ALGEBRA (3-0-3)(F).** Concepts of linear algebra from a theoretical perspective. Topics include vector spaces and linear maps, dual vector spaces and quotient spaces, eigenvalues and eigenvectors, diagonalization, inner product spaces, adjoint transformations, orthogonal and unitary transformations, Jordan normal form. PREREQ: MATH 287 and MATH 301.

**MATH 405 ABSTRACT ALGEBRA (3-0-3)(F)(Odd years).** Topics in group theory, ring theory and field theory with emphasis on finite and solvable groups, polynomials and factorization, extensions of fields. PREREQ: MATH 287 and MATH 305.

**MATH 406 NUMBER THEORY (3-0-3)(S).** Quadratic residues, Representing numbers as sums of squares, Continued fractions, Diophantine equations Including Pell's equation, arithmetic functions and Mobius Inversion, the distribution of prime numbers, primality testing, factoring natural numbers. PREREQ: MATH 287 and MATH 305.

**MATH 408 ADVANCED ASYMMETRIC CRYPTOGRAPHY AND CRYPTANALYSIS (3-0-3)(F).** An in-depth study of asymmetric cryptography, post-quantum cryptography, digital signatures, and analysis of cryptographic security. Elliptic curves and elliptic curve isogenies. Lattices and the shortest vector problem. Post-quantum cryptosystems such as NTRU and cryptographic schemas based on Short Integer Solution and Learning With Errors. PREREQ: MATH 287 and MATH 305, or MATH 307 or MATH 308 or CS 567.

**MATH 409 SYMMETRIC KEY CRYPTOGRAPHY AND CRYPTANALYSIS (3-0-3)(S).** An in-depth study of modern block and stream ciphers, lightweight cryptography, hash functions, analysis cryptographic security, and current advances in cryptanalysis. Finite fields, vector spaces, enumerative combinatorics. Algebraic structures of symmetric key cryptosystems. Security proofs including algebraic, linear, and differential cryptanalysis. Analysis of side-channel attacks. PREREQ: MATH 287 and MATH 301, or MATH 307 or MATH 308 or CS 567.

**MATH 411 INTRODUCTION TO TOPOLOGY (3-0-3)(F)(Even years).** Sets, metric and topological spaces, product and quotient topology, continuous

## MATHEMATICS

mappings, connectedness and compactness, homeomorphisms, fundamental group, covering spaces. PREREQ: MATH 314.

**MATH 414 REAL ANALYSIS (3-0-3)(S).** Covers Riemann integration, the fundamental theorem of calculus, sequences and series of functions, multivariable calculus. Additional topics may include Fourier series, analysis of metric spaces, the Baire property, and advanced topology of Euclidean space. PREREQ: MATH 275 and MATH 314.

**MATH 426 COMPLEX VARIABLES (3-0-3)(S)(Odd years).** Complex numbers, functions of a complex variable, analytic functions, infinite series, infinite products, integration, proofs and applications of basic results of complex analysis. Topics include the Cauchy integral formulas, the residue theorem, the Riemann mapping theorem and conformal mapping. PREREQ: MATH 275.

**MATH 427 INTRODUCTION TO APPLIED MATHEMATICS FOR SCIENTISTS AND ENGINEERS (3-0-3)(F).** Introduction to applied mathematics in science and engineering: Vector calculus, Fourier series and transforms, series solutions to differential equations, Sturm-Liouville problems, wave equation, heat equation, Poisson equation, analytic functions, and contour integration. PREREQ: MATH 275 and MATH 333.

**MATH 433 ORDINARY DIFFERENTIAL EQUATIONS (3-0-3)(S)(Odd years).** Theory of linear and nonlinear ordinary differential equations and their systems, including Dynamical systems theory. Properties of solutions including existence, uniqueness, asymptotic behavior, stability, singularities and boundedness. PREREQ: MATH 333.

**MATH 436 PARTIAL DIFFERENTIAL EQUATIONS (3-0-3)(S)(Even years).** Theory of partial differential equations and boundary value problems with applications to the physical sciences and engineering. Detailed analysis of the wave equation, the heat equation, and Laplace's equation using Fourier series and other tools. PREREQ: MATH 275 and MATH 333.

**MATH 456 LINEAR PROGRAMMING (3-0-3)(SU)(On Demand).** Linear optimization problems and systems of linear inequalities. Algorithms include simplex method, two-phase method, duality theory, and interior point methods. Programming assignments. PREREQ: MATH 301.

**MATH 462 PROBABILITY AND STATISTICS II (3-0-3)(F).** Provides a solid foundation in the mathematical theory of statistics. Topics include probability theory, distributions and expectations of random variables, transformations of random variables, moment-generating functions, basic limit concepts and brief introduction to theory of estimation and hypothesis testing: point estimation, interval estimation and decision theory. PREREQ: MATH 275, MATH 301, and MATH 361.

**MATH 465 NUMERICAL METHODS I (3-0-3)(F).** Approximation of functions, solutions of equations in one variable and of linear systems. Polynomial, cubic spline, and trigonometric interpolation. Optimization. Programming assignments. PREREQ: MATH 365 or PERM/INST.

**MATH 471 DATA ANALYSIS (3-0-3)(F).** Applications of statistical data analysis in various disciplines, introduction to statistical software, demonstration of interplay between probability models and statistical inference. Topics include introduction to concepts of random sampling and statistical inference, goodness of fit tests for model adequacy, outlier detection, estimation and testing hypotheses of means and variances, analysis of variance, regression analysis and contingency tables. PREREQ: MATH 361.

**MATH 472 COMPUTATIONAL STATISTICS (3-0-3)(S).** Introduction to the trend in modern statistics of basic methodology supported by state-of-art computational and graphical facilities, with attention to statistical theories and complex real world problems. Includes: data visualization, data partitioning and resampling, data fitting, random number generation, stochastic simulation, Markov chain Monte Carlo, the EM algorithm, simulated annealing, model building and evaluation. A statistical computing environment will be used for students to gain hands-on experience of practical programming techniques. PREREQ: MATH 361.

**MATH 480 SENIOR PROJECT (3-4 credits)(On Demand).** Research on a mathematical problem in the form of a thesis, or work on an applied problem which could be provided by local industry. PREREQ: Senior standing.

**MATH 488 SENIOR OUTCOMES ASSESSMENT (0-0-0)(F, S).** Required to graduate. Senior Mathematics and Applied Mathematics students will take an outcome assessment examination. Senior Mathematics Secondary Education students will submit a portfolio and should take MATH 488 during their student teaching. (Pass/Fail. ) PREREQ: Senior standing.

**MATH 491 PUTNAM PRACTICE II (1-0-1)(F).** Solving problems from previous Putnam examinations and related problems. May be repeated once for credit. (Pass/Fail. )

**MATH 498 SEMINAR IN MATHEMATICS (1-0-1)(F/S).** Seminars by mathematicians on a wide range of subjects, including advanced mathematical topics selected from texts, mathematical journals, and current research. Format may include student presentation and discussion. Students will attend seminars, write summaries, and search for relevant literature. May be repeated once for credit. (Pass/Fail. ) PREREQ: PERM/INST.

# Micron School of Materials Science and Engineering

College of Engineering

Micron Center for Materials Research, Suite 207  
(208) 426-5600 (phone)  
(208) 426-4466 (fax)

<https://www.boisestate.edu/coen-materials/> (website)

*Director and Professor:* Will Hughes. *Associate Director for Undergraduate Studies and Associate Professor:* Megan Frary. *Professors:* Knowlton, Moll, Müllner, Phillips, Ubc. *Associate Professors:* Estrada, Graugnard, Hurley, Jankowski, Lee, Li, Xiong. *Assistant Professors:* Jaques, Simmonds. *Clinical Assistant Professor:* Ackler. *Distinguished Research Fellow:* Yurke. *Research Professor:* Wu. *Assistant Research Professor:* Elliott.

## Degrees Offered

- Bachelor of Science in Materials Science and Engineering
  - Secondary Education Emphasis
- Minor in Materials Science and Engineering

## Department Statement

Materials science enables technology: the ways we harness energy, travel, communicate, capture memories, protect first responders, and diagnose and treat medical conditions are the products of material innovations. These innovations, from improved steel-making that fueled the industrial revolution to semiconductor materials that ushered in the digital age, have advanced civilization and improved our quality of life. As the modern age continues to evolve, the development of new materials that promote sustainable ecosystems becomes ever more critical.

Materials scientists and engineers leverage their understanding of atomic structure, synthesis, microstructure and material behavior to address the world's toughest challenges, including clean energy, the aging urban infrastructure, climate change, accessible and clean water, diseases and better medicines. As a materials science and engineering student, your education will encompass the guiding principles of materials science—structure, processing, properties, and performance of metals, ceramics, glass, polymers, composites, electronic materials, biomaterials, and nanomaterials. The curriculum builds on these core foundations with design, computational science, communication, teamwork, project management, and experiential learning. You will learn about materials synthesis, materials characterization, product design, and manufacturing. With these 21<sup>st</sup> century workplace skills and the technical background needed to solve materials issues, our graduates have the ability to design and deploy materials that meet the performance demands of new technology in the modern era.

The Materials Science and Engineering program is accredited by the Engineering Accreditation Commission of ABET, <http://www.abet.org/>.

The BS in Materials Science and Engineering, Secondary Education Emphasis combines knowledge of the BS degree with theories of learning and human development, study of curriculum, and methodology to help students develop the knowledge, skills and dispositions essential for success in secondary school teaching. The program involves participation in the IDoTeach STEM-ED curriculum, which includes early and sustained field experiences for students. Candidates who complete the Secondary Education Emphasis program have demonstrated evidence of meeting the Idaho Beginning Teacher and Engineering Standards and are eligible for recommendation for state certification and an engineering endorsement for teaching.

Students wishing to pursue this degree plan must meet the requirements and standards for admission to teacher education, which are described fully under STEM Education IDoTeach STEM Teaching Certification or at <https://www.boisestate.edu/idoteach/>. Students must meet and maintain all knowledge, skill, and disposition requirements to remain in the program.

## Educational Objectives

Graduates of the Materials Science and Engineering program will be:

1. Fully qualified as materials engineers, with an ability to adapt and progress in a rapidly changing field.
2. Well-rounded individuals who both understand the principles and can undertake the practice of the science and engineering of materials.
3. Able to operate as effective engineers or scientists in materials industries, academia, or related fields.

## Degree Requirements

| Materials Science and Engineering<br>Bachelor of Science   |         |
|--|---------|
| Course Number and Title  | Credits |
| University Foundations requirements indicated in bold. See page 48 for details and lists of approved courses.  |         |
| <b>UF 100</b> Foundations of Intellectual Life   | 3       |
| <b>UF 200</b> Foundations of Ethics and Diversity  | 3       |
| <b>FW ENGL 101</b> Writing and Rhetoric I  | 3       |
| <b>FW ENGL 102</b> Writing and Rhetoric II   | 3       |
| <b>FC</b> Foundations of Oral Communication  | 3       |
| <b>FM MATH 170</b> Calculus I  | 4       |
| <b>FN CHEM 111, 111L</b> General Chemistry I & Lab   | 4       |
| <b>FN PHYS 211, 211L</b> Physics I with Calculus & Lab   | 5       |
| <b>FA</b> Foundations of Arts course   | 3       |
| <b>FH</b> Foundations of Humanities course or<br><b>FH STEM-ED 220</b> Philosophical Perspectives on Science and Mathematics (Secondary Education Emphasis)                  | 3-4     |
| <b>FS</b> Foundations of Social Sciences course or<br><b>FS ED-CIFS 201</b> Education, Schooling, and Society (Secondary Education Emphasis)                                 | 3       |
| <b>FS</b> Foundations of Social Sciences course in a second field or<br><b>FS STEM-ED 210</b> Knowing and Learning in Mathematics and Science (Secondary Education Emphasis) | 3       |
| CHEM 112, 112L General Chemistry II & Lab  | 4       |
| MATH 175 Calculus II   | 4       |
| MATH 275 Multivariable and Vector Calculus   | 4       |
| MATH 333 Differential Equations with Matrix Theory   | 4       |
| MSE 245, 245L Intro to Materials Science & Engineering & Lab   | 4       |
| MSE 246 Materials for Society  | 3       |
| MSE 308 Thermodynamics of Materials  | 3       |
| MSE 312 Mechanical Behavior of Materials   | 3       |
| MSE 318 Phase Transformations and Kinetics   | 3       |
| MSE 321 Structural Characterization  | 3       |
| MSE 380 Materials Properties Laboratory  | 3       |
| MSE 381 Material Analysis Laboratory   | 3       |
| MSE 410 Electrical Properties of Materials   | 3       |
| MSE 415 Materials Processing   | 3       |
| MSE 480 Senior Capstone Project I  | 3       |
| <b>FF MSE 482</b> Senior Capstone Project II   | 3       |
| MSE 498 Materials Science Seminar  | 1       |
| PHYS 212, 212L Physics II with Calculus & Lab  | 5       |

## MATERIALS SCIENCE AND ENGINEERING

|  |                |
|--|----------------|
| <p>Computing Elective<br/>Choose from the following list or other course(s) as approved by the undergraduate coordinator.</p> <ul style="list-style-type: none"> <li>CE 284 Civil Engineering Computational Methods</li> <li>CS 111 Introduction to Programming</li> <li>CS 117 C++ for Engineers</li> <li>CS 121 Computer Science I</li> <li>CS 133 Foundations of Data Science</li> <li>GEOS 357 Computation in the Geosciences</li> <li>MSE 150 Comp Tools for Materials Science</li> </ul>   | 3-4            |
| <p>Engineering Fundamental Elective<br/>Choose from the following list or other course(s) as approved by the undergraduate coordinator.</p> <ul style="list-style-type: none"> <li>CE 320 Principles of Environmental Engineering</li> <li>CE 330 Fluid Mechanics</li> <li>ECE 210 Introduction to Electric Circuits</li> <li>ECE 212 Circuit Analysis and Design</li> <li>ENGR 210 Engineering Mechanics I</li> <li>ENGR 220 Engineering Mechanics II</li> <li>ENGR 240 Electrical and Electronic Circuits</li> <li>ME 105 Mechanical Engineering Graphics</li> <li>ME 302 Thermodynamics I</li> <li>ME 330 Fluid Mechanics</li> <li>ME 350 Engineering Mechanics of Materials</li> </ul>   | 6              |
| <p>Science Elective<br/>Choose from the following list or other course(s) as approved by the undergraduate coordinator.</p> <ul style="list-style-type: none"> <li>BIOL 191 Biology I: Intro to Cell and Molecular Biology</li> <li>BIOL 227 Human Anatomy and Physiology I</li> <li>CHEM 211 Analytical Chemistry I</li> <li>CHEM 301 Survey of Organic Chemistry</li> <li>CHEM 307 Organic Chemistry I</li> <li>GEOS 220 Seeing the Unseen: an Intro to Geophysics</li> <li>GEOS 343 Applied Geophysics</li> <li>GEOS 426 Aqueous Geochemistry</li> <li>PHYS 301 Analog and Digital Electronics</li> <li>PHYS 307 Introduction to Biophysics</li> <li>PHYS 309 Introductory Quantum Physics</li> <li>PHYS 341 Classical Mechanics</li> </ul> | 3-4            |
| <p>Statistics Elective<br/>Choose from the following list or other course(s) as approved by the undergraduate coordinator.</p> <ul style="list-style-type: none"> <li>MATH 254 Introduction to Statistics</li> <li>MATH 360 Engineering Statistics</li> <li>MATH 361 Probability and Statistics I</li> </ul>   | 3              |
| <p>In addition, complete the following coursework to graduate with a BS in Materials Science and Engineering or complete the courses listed under the Secondary Education Emphasis below to graduate with a BS in Materials Science &amp; Engineering with an emphasis in Secondary Education.</p>   |                |
| Upper-division electives to total 40 credits   | 0-5            |
| Electives to total 120 credits   | 0-6            |
| <b>Total</b>   | <b>120-122</b> |

| Secondary Education Emphasis   |                |
|--|----------------|
| STEM-ED 101 Step 1: Inquiry Approaches to Teaching   | 1              |
| STEM-ED 102 Step 2: Inquiry-Based Lesson Design  | 1              |
| STEM-ED 310 Classroom Interactions   | 3              |
| STEM-ED 350 Research Methods   | 3              |
| STEM-ED 410 Project-Based Instruction  | 3              |
| STEM-ED 480 Apprentice Teaching  | 6              |
| <b>Total</b>   | <b>131-134</b> |
| <p>This emphasis also needs to complete ED-CIFS 201, STEM-ED 210 and STEM-ED 220.</p> <p>*Electives must be approved by the student's advisor.</p> |                |

| Materials Science and Engineering Minor  |                |
|--|----------------|
| <i>Course Number and Title</i>   | <i>Credits</i> |
| MSE 245 Intro to Materials Science & Engineering   | 3              |
| MSE 245L Intro to Materials Science & Engineering Lab or MSE 280 Intro to Materials Lab Practice   | 1              |
| MSE 246 Materials for Society  | 3              |
| MSE 308 Thermodynamics of Materials or MSE 410 Electrical Properties of Materials  | 3              |
| <p>Courses chosen from the following list:</p> <ul style="list-style-type: none"> <li>CE 340 Engineering Properties of Construction Materials</li> <li>CE 341 Construction Materials Lab</li> <li>CHEM 321, 322 Physical Chemistry I &amp; II Lecture</li> <li>CHEM 401 Advanced Inorganic Chemistry</li> <li>ECE 320 Semiconductor Devices</li> <li>ECE 440, ECE 440L Intro to Integrated Circuit Processing &amp; Lab</li> <li>ECE 441 Advanced Silicon Technology</li> <li>GEOS 300 Earth Materials</li> <li>ME 442 Corrosion Engineering</li> <li>ME 454 Composites</li> <li>MSE 308 Thermodynamics of Materials</li> <li>MSE 312 Mechanical Behavior of Materials</li> <li>MSE 318 Phase Transformations and Kinetics</li> <li>MSE 321 Structural Characterization</li> <li>MSE 380 Materials Properties Laboratory</li> <li>MSE 381 Material Analysis Laboratory</li> <li>MSE 410 Electrical Properties of Materials</li> <li>MSE 415 Materials Processing</li> <li>MSE 422 Applications of Materials Characterization</li> <li>MSE 428 Interfaces and Dislocation Behavior</li> <li>MSE 461 Topics in Semiconductor Materials</li> <li>MSE 477 Biomaterials</li> <li>MSE 488 Environmental Degradation of Materials</li> <li>MSE 498 Materials Science and Engineering Seminar</li> <li>PHYS 309, 309L Introductory Quantum Physics &amp; Lab</li> <li>PHYS 415 Solid State Physics</li> <li>PHYS 423 Physical Methods of Materials Characterization</li> </ul> | 9              |
| <b>Total</b>   | <b>19</b>      |



## Course Offerings

### MSE—Materials Science and Engineering

#### Lower Division

#### MSE 150 COMPUTATIONAL TOOLS FOR MATERIALS SCIENCE

(3-0-3)(S). Hands on experience solving problems using computers, identifying problems amenable to computation, and a survey of common tools for managing and manipulating code relevant to Materials Science and Engineering field. PRE/COREQ: MATH 170.

#### MSE 245 INTRODUCTION TO MATERIALS SCIENCE AND

ENGINEERING (3-0-3)(F, S)(FN). Application of basic principles of physics and chemistry to the engineering properties of materials. Development of a fundamental understanding of structure, property, processing and performance relationships in all classes of materials including metals, ceramics, polymers and electronic materials. PREREQ: CHEM 111 and MATH 170.

#### MSE 245L INTRODUCTION TO MATERIALS SCIENCE AND

ENGINEERING LAB (0-2-1)(F, S). Practical experience in testing and processing of engineering materials, data acquisition, data analysis, and technical communication. PRE/COREQ: MSE 245.

**MSE 246 MATERIALS FOR SOCIETY (3-0-3)(S).** Applies concepts of structure, processing, properties, and performance to case studies of materials. Emphasis on the development and societal impact of these materials, and communicating that information. PREREQ: MSE 245.

#### MSE 280 INTRO TO MATERIALS LAB PRACTICE (0-2-1)(F/S).

Introduction to laboratory practices including safety, record keeping, error calculation, and ethical practice. Techniques and tools used in materials science practice with emphasis on processing techniques. PRE/COREQ: MSE 150, MSE 245.

#### Upper Division

#### MSE 308 THERMODYNAMICS OF MATERIALS (3-0-3)(F).

Basic thermodynamics principles including energy, entropy, and free energy. Equilibrium states, phases and phase transitions of various materials systems. PREREQ: MSE 245 and CHEM 112, or ME 302 or PHYS 432. PRE/COREQ: MATH 333.

#### MSE 312 MECHANICAL BEHAVIOR OF MATERIALS (3-0-3)(F).

Elastic and plastic deformation and fracture in engineering materials, including dislocation theory, alloy hardening and creep deformation, fracture mechanisms, fracture mechanics, toughening of metals, ceramics, and composites, environmentally assisted failure. PREREQ: MSE 245.

#### MSE 318 PHASE TRANSFORMATIONS AND KINETICS (3-0-3)(S).

Transport Processes and kinetics in materials systems including diffusion, phase transformations, nucleation and growth, gas-solid and liquid-solid reactions, and electrochemical kinetics. PREREQ: MSE 245 and MSE 308 or PHYS 432 and MATH 333.

#### MSE 321 STRUCTURAL CHARACTERIZATION (3-0-3)(S).

The theory and practice of x-ray diffraction and analytical electron microscopy; the principles of modern diffractometers and electron-beam instruments, both scanning and transmission, including electron optics, imaging modes, the interaction of electrons and x-rays with matter, diffraction theory, contrast mechanisms, and basic techniques for determining chemical composition, crystal structure, orientation, and defects in crystals. PREREQ: MSE 246.

#### MSE 380 MATERIAL PROPERTIES LABORATORY (2-3-3)(F).

Use of characterization techniques for determining the properties of materials, including microstructural, physical, thermodynamic, mechanical, electrical, optical, magnetic, and thermal properties. Emphasis on understanding the significance of, and being able to present, these measurements. PREREQ: MSE 245L, MSE 246, and FC requirement. PRE/COREQ: MSE 308.

#### MSE 381 MATERIALS ANALYSIS LABORATORY (2-3-3)(S).

Use of compositional and structural characterization techniques in materials engineering analysis, with an emphasis on microscopy, spectroscopy and

diffraction techniques. PREREQ: MSE 380 and MSE 312. PRE/COREQ: MSE 318, MSE 321.

#### MSE 410 (ECE 340) ELECTRICAL PROPERTIES OF MATERIALS

(3-0-3)(F/S). Physical principles underlying the electrical properties of metals, insulators and semiconductors. The effects of energy band structure, thermal properties and impurities on electrical conduction. Concepts covered are applied to electrical devices including nanodevices, MOSFETS and optoelectronic devices. May be taken for MSE or ECE credit, but not both. PREREQ: MSE 245, MATH 333.

**MSE 415 MATERIALS PROCESSING (3-1-3)(F/S).** Survey of manufacturing and processing techniques for technological materials including biomaterials, ceramics, metals, nanomaterials, and polymers. PREREQ: MSE 318 and MSE 312.

#### MSE 419 INTERFACIAL KINETICS AND TRANSPORT PROCESSES

(3-0-3)(Offered as Justified). Reaction kinetics and mass transport phenomena at materials interfaces important in materials processing and performance, including gas-solid, liquid-solid, and electrochemical processes. Emphasis is placed on understanding fundamental mechanisms that control rates of reactions and mass transport. PREREQ: MSE 308.

#### MSE 422 APPLICATIONS OF MATERIALS CHARACTERIZATION

(1-3-2)(Offered as Justified). In-depth applied study of materials characterization techniques. Study of theory and specific applications in materials science and engineering. Students are required to have an approved project. May be repeated for credit. PREREQ: MSE 321 and PERM/INST.

#### MSE 423 INTRODUCTION TO X-RAY DIFFRACTION (0-3-1)(Offered

as Justified). Practical introduction to x-ray diffraction and the optimal use of an x-ray diffractometer for crystalline materials in the form of bulk materials, powders, or films. Students are required to have a planned project that utilizes x-ray diffraction and the approval of their supervisor to enroll in this course. PREREQ: MSE 246 and PERM/INST.

#### MSE 428 INTERFACES AND DISLOCATION BEHAVIOR (3-0-3)

(Offered as Justified). Structure of interfaces as groups of line defects including dislocations, disconnections, and disclinations; application of general concepts to special situations including epitaxial interfaces, twin boundaries and phase transformations. PREREQ: MSE 246.

#### MSE 450 NANOSCALE TRANSPORT (3-0-3)(Offered as Justified).

Fundamental and applied treatment of photons, electrons, and phonons as energy carriers from the nanoscale (<100 nm) to the macroscale. Topics include energy transport in the forms of waves and particles, carrier scattering processes, transport in low-dimensional systems, and experimental methods of transport measurements. Particular attention will be given to 2-dimensional materials and devices. PREREQ: PHYS 309 or PERM/INST.

#### MSE 461 TOPICS IN SEMICONDUCTOR MATERIALS (3-0-3)(Offered

as Justified). Topics such as materials selection, characterization, design, processing, applications, and other field-specific matters. May be repeated for credit. PREREQ: MSE 245 and PERM/INST.

#### MSE 463 MATERIALS MODELING (3-0-3)(Offered as Justified).

Theory and application of computational techniques for modeling materials across length scales (nanometers to centimeters) and time scales (femtoseconds to minutes). Emphasis on stochastic techniques including molecular dynamics, Monte Carlo, and kinetic Monte Carlo simulations. PREREQ: MSE 150, MSE 245, and MSE 308 or PERM/INST.

#### MSE 464 COMPUTATIONAL MATERIALS SCIENCE (3-0-3)(Offered as

Justified). Theory and application of computational modeling and simulation to fundamentally understand structure-property-performance relationships in materials. Different length- and time scale modeling techniques (e.g., first-principles quantum simulation, atomistic, mesoscale and continuum modeling), scientific programming, and visualization tools. PREREQ: MSE 150, MSE 246, MSE 308, and PHYS 309 or PERM/INST.

**MSE 471 TOPICS IN CERAMIC MATERIALS (3-0-3)(Offered as justified).** Topics such as issues related to advanced ceramic systems as well as their processing, structure, properties and performance. May be repeated for credit. PREREQ: MSE 246 and PERM/INST

**MSE 473 PHYSICAL PROPERTIES OF POLYMERS (3-0-3)(Offered as Justified).** Physical properties of polymers with focus on their underlying physics and chemistry of chain structures, solution properties, glass transition, crystalline state, rubber elasticity, and viscoelasticity. Contemporary topics such as polymer composites and polymers for electronics, energy, and biomedical applications are also introduced. PREREQ: MSE 245 or CHEM 112.

**MSE 477 (BIOL 477)(ME 477) BIOMATERIALS (3-0-3)(F/S).** Theory of biomaterials science. Medical and biological materials and their applications. Selection, properties, characterization, design and testing of materials used by or in living systems. PREREQ: CHEM 112 or MSE 245.

**MSE 478 SCIENTIFIC COMMUNICATION IN MATERIALS SCIENCE AND ENGINEERING (1-0-1)(F).** Intended for students performing research in materials science and engineering to communicate their latest research findings to specific targeted audiences. Methods are taught to organize and compose scientific scholarly research publication at the conference or journal publication level. Students will implement the methods by writing a scholarly research paper. PREREQ: Student must be pursuing research in Materials Science and Engineering, PERM/INST.

**MSE 480 SENIOR CAPSTONE PROJECT I (2-4-3)(F).** Culminating major design experience that incorporates materials selection, engineering standards and realistic constraints that include most of the following: economic, environmental, manufacturability, ethical, health and safety, social and political. PRE/COREQ: MSE 415. PREREQ: MSE 312, MSE 318, MSE 381.

**MSE 482 SENIOR CAPSTONE PROJECT II (2-4-3)(S)(FF).** Culminating major design experience that incorporates materials selection, engineering standards and realistic constraints that include most of the following: economic, environmental, manufacturability, ethical, health and safety, social and political. PREREQ: MSE 480.

**MSE 488 ENVIRONMENTAL DEGRADATION OF MATERIALS (3-0-3)(F/S).** Theory of environmental degradation of metals, ceramics, polymers and biomaterials. Scientific principles of materials degradation with emphasis on material interactions within a living organism (in vivo). PREREQ: MSE 308.

**MSE 498 MATERIALS SCIENCE AND ENGINEERING SEMINAR (1-0-1)(F, S).** Review of contemporary issues with an emphasis on life-long learning in Materials Science and Engineering. May be repeated for a total of 3 credits. PREREQ: MSE 245.

## Department of Mechanical and Biomedical Engineering

*College of Engineering*

Charles P. Ruch Engineering Building, Room 201  
(208) 426-4078 (phone)  
(208) 426-4800 (fax)  
<https://www.boisestate.edu/coen-mbe/> (website)

*Chair and Professor:* John Gardner. *Professors:* Guarino. *Associate Professors:* Ferguson, Lujan, Otanicar, Plumlee. *Assistant Professors:* Deng, Fitzpatrick, Mamivand, Mannen, Pakala, Satici, Uzer. *Lecturers:* Catlin, Engstrom, Hagemeyer, Haight, Hollar, Howe.

### Degrees Offered

- Bachelor of Science in Mechanical Engineering
  - Secondary Education Emphasis
- Minor in Biomedical Engineering
- Certificate in Biomedical Engineering
- Certificate in Computational
- Certificate in Energy/Environment
- Certificate in HVAC/Building Systems
- Certificate in Industrial Processes
- Certificate in Mechanical Design
- Certificate in Mechanical Materials
- Certificate in Mechatronics
- Certificate in Solid Mechanics
- Certificate in Thermal-Fluids

### Department Statement

The Mechanical Engineering program prepares students for the rewards and challenges of careers in research, design, and manufacturing of a wide array of mechanical components and systems.

The curriculum was carefully developed with input from engineering professionals to provide a sound foundation in basic engineering while enabling students to specialize in diverse topics such as machine design, product development, thermal systems, vibrations and controls, and HVAC. Design is a central theme throughout the curriculum. Graduates are well prepared to enter the workplace or to further their education in graduate schools.

Through student run organizations and projects, affiliations are maintained with the American Society of Mechanical Engineers (ASME), the American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE), and the Society of Automotive Engineers (SAE).

The BS in Mechanical Engineering, Secondary Education Emphasis combines content knowledge, theories of learning and human development, study of curriculum, and methodology to help students develop the knowledge, skills and dispositions essential for success in secondary school teaching. The program involves participation in the IDoTeach STEM-ED curriculum, which includes early and sustained field experiences for students. Candidates who complete the Secondary Education Emphasis program have demonstrated evidence of meeting the Idaho Beginning Teacher and Engineering Standards and are eligible for recommendation for state certification and an engineering endorsement for teaching.

Students wishing to pursue this degree plan must meet the requirements and standards for admission to teacher education, which are described fully under STEM Education IDoTeach STEM Teaching Certification or at <https://www.boisestate.edu/idoteach/>. Students must meet and maintain all knowledge, skill, and disposition requirements to remain in the program.

The BS in Mechanical Engineering program is accredited by the Engineering Accreditation Commission of ABET, <http://www.abet.org/>.

## Mission

The Mechanical and Biomedical Engineering Department provides an enriching student experience with accessible, high-quality, nationally recognized undergraduate and graduate degree programs that prepare students for productive careers, graduate study, research, and lifelong learning. Multidisciplinary research and innovative technology development are pursued to advance the knowledge and practice of Mechanical and Biomedical Engineering.

## Vision

The Mechanical and Biomedical Engineering Department seeks to deliver recognized degree programs where students learn and practice state of the art engineering and research methods dealing with issues of concern locally, nationally, and globally. The department's focus on energy, systems engineering, environmental stewardship, and biomechanics will provide the context for vibrant student experiences.

## Mechanical Engineering Program Educational Objectives

Within a few years of graduation, mechanical engineering graduates will be:

- Problem Solvers, applying engineering skills and knowledge for the benefit of employers and society,
- Contributors to the practice and theory of science and engineering,
- Communicators, effectively presenting ideas and solutions to audiences of various backgrounds and technical understanding,
- Team Builders, working effectively and professionally with others to accomplish organizational goals,
- Citizens, committed to enriching the engineering community and adhering to the highest ethical standards, and
- Leaders within the engineering profession offering guidance and support to the engineering and related communities.

## Admission Requirements

Students interested in pursuing a Bachelor of Science degree in Mechanical Engineering must be admitted to the program. Admission is required before a student may enroll in most upper-division courses. The designated courses require ME Major Status as a prerequisite.

Admission to the program is based on various academic criteria including performance in a set of designated Mechanical Engineering Core courses, number of repeated Mechanical Engineering Core courses as well as professional and ethical behavior. Please see the MBE website: <https://www.boisestate.edu/coen-mbe/curriculum/> to obtain specific information about the application process and application deadlines.

The following Mechanical Engineering Core courses are used as a basis for admission to the undergraduate Mechanical Engineering program:

- MATH 170 Calculus I
- MATH 175 Calculus II
- ME 201 Engineering Mechanics I
- ME 203 Engineering Mechanics II
- ME 273 Introduction to Computation for Engineers w/lab
- PHYS 211 Physics I with Calculus

To be considered for admission, students must:

1. Complete the designated Mechanical Engineering Core courses with a minimum GPA of 2.6.
2. Complete the designated Mechanical Engineering Core courses with no more than 3 repeated courses.
3. Demonstrate professional and ethical behavior. All documented breaches of the *Boise State University Student Code of Conduct* will be reviewed by the MBE department and could result in ineligibility for admission to the Mechanical Engineering program.

## Degree Requirements

| Mechanical Engineering<br>Bachelor of Science  |         |
|--|---------|
| Course Number and Title  | Credits |
| University Foundations requirements indicated in bold. See page 48 for details and lists of approved courses.  |         |
| <b>UF 100</b> Foundations of Intellectual Life   | 3       |
| <b>UF 200</b> Foundations of Ethics and Diversity  | 3       |
| <b>FW ENGL 101</b> Writing and Rhetoric I  | 3       |
| <b>FW ENGL 102</b> Writing and Rhetoric II   | 3       |
| <b>FC</b> Foundations of Oral Communication  | 3       |
| <b>FM MATH 170</b> Calculus I  | 4       |
| <b>FN CHEM 111, 111L</b> General Chemistry I & Lab   | 4       |
| <b>FN PHYS 211, 211L</b> Physics I with Calculus & Lab   | 5       |
| <b>FA</b> Foundations of Arts course   | 3       |
| <b>FH STEM-ED 220</b> Philosophical Perspectives on Science and Mathematics (Secondary Education Emphasis) or <b>FH</b> Foundations of Humanities course       | 3-4     |
| <b>FS</b> Foundations of Social Sciences course or <b>FS STEM-ED 210</b> Knowing and Learning in Mathematics & Science (Secondary Education Emphasis)          | 3       |
| <b>FS ED-CIFS 201</b> Education, Schooling, and Society (Secondary Education Emphasis) or <b>FS</b> Foundations of Social Sciences course in a second field    | 3       |
| <b>CS 117 C++ for Engineers</b> or <b>CS 121</b> Computer Science I  | 3-4     |
| <b>ENGR 240</b> Electrical and Electronic Circuits   | 3       |
| <b>MATH 175</b> Calculus II  | 4       |
| <b>MATH 275</b> Multivariable and Vector Calculus  | 4       |
| <b>MATH 333</b> Differential Equations with Matrix Theory  | 4       |
| <b>MATH 360</b> Engineering Statistics or <b>MATH 361</b> Probability and Statistics I   | 3       |
| <b>ME 187</b> Graphical Communications   | 2       |
| <b>ME 201</b> Engineering Mechanics I  | 3       |
| <b>ME 203</b> Engineering Mechanics II   | 3       |
| <b>ME 215</b> Engineering Communications Lab with Inspire ME Seminar   | 1       |
| <b>ME 273</b> Introduction to Computation for Engineers  | 2       |
| <b>ME 287</b> Design I   | 2       |
| <b>ME 301, 301L</b> Solid Mechanics I and Lab  | 4       |
| <b>ME 303</b> Solid Mechanics II   | 3       |
| <b>ME 313</b> Experimental Methods Lab I   | 2       |
| <b>ME 321</b> Thermal/Fluids I   | 3       |
| <b>ME 323</b> Thermal/Fluids II  | 3       |
| <b>ME 360/ECE 360</b> System Modeling and Control  | 3       |
| <b>ME 387</b> Design II  | 2       |
| <b>ME 401</b> Engineering Systems and Applications   | 3       |
| <b>ME 413</b> Experimental Methods Lab II  | 2       |
| <b>FF ME 487</b> Senior Design Project I   | 2       |
| <b>ME 489</b> Senior Design Project II   | 2       |
| <b>MSE 245</b> Intro to Materials Science & Engineering  | 3       |
| Science Elective (At least four credits of math or science)<br>Courses chosen for the science elective cannot also be used in the upper-division ME electives. | 4       |

## MECHANICAL AND BIOMEDICAL ENGINEERING

|  |                |
|--|----------------|
| Upper-division ME electives<br>ME electives include upper-division mechanical engineering courses and upper-division courses required in the mechanical engineering program certificates. See department website for additional information. | 12             |
| In addition, complete the courses listed under the Secondary Education Emphasis below to graduate with a BS in Mechanical Engineering with an emphasis in Secondary Education.   |                |
| <b>Total</b>   | <b>122-124</b> |
| <b>Secondary Education Emphasis</b>  |                |
| STEM-ED 101 Step 1: Inquiry Approaches to Teaching   | 1              |
| STEM-ED 102 Step 2: Inquiry-Based Lesson Design  | 1              |
| STEM-ED 310 Classroom Interactions   | 3              |
| STEM-ED 350 Research Methods   | 3              |
| STEM-ED 410 Project-Based Instruction  | 3              |
| STEM-ED 480 Apprentice Teaching  | 6              |
| <b>Total</b>   | <b>139-141</b> |
| Note: The emphasis requires that ED-CIFS 201, STEM-ED 210, STEM-ED 220, STEM-ED 350 must also be completed, as indicated above.  |                |

|   |                |
|---|----------------|
| <b>Biomedical Engineering Certificate</b>   |                |
| <i>Course Number and Title</i>  | <i>Credits</i> |
| BIOL 191 Biology I: Intro to Cell and Molecular Biology   | 4              |
| ME 112 Introduction to Biomedical Engineering   | 1              |
| ME 356 Introduction to Solid Biomechanics   | 3              |
| ME 477/BIOL 477/MSE 477 Biomaterials  | 3              |
| Four (4) courses chosen from:<br>BIOL 192 Biology II: Introduction to the Diversity of Life<br>BIOL 227-228 Human Anatomy and Physiology I & II<br>BIOL 320 Cell Biology<br>CHEM 301 Survey of Organic Chemistry<br>CHEM 307, 308 Organic Chemistry I and Lab<br>CHEM 309, 310 Organic Chemistry II and Lab<br>CHEM 431 Biochemistry I<br>ECE 457 Digital Image Processing<br>KINES 270 Applied Anatomy<br>KINES 370, 371 Biomechanics and Lab<br>MSE 488 Environmental Degradation of Materials<br>PHYS 307 Introduction to Biophysics | 6-10           |
| <b>Total</b>  | <b>17-21</b>   |
| The certificate will be awarded following completion of an associate or baccalaureate degree.   |                |

|  |                |
|--|----------------|
| <b>Computational Certificate</b>   |                |
| <i>Course Number and Title</i>   | <i>Credits</i> |
| Four (4) courses chosen from:<br>CS 430 Parallel Computing<br>MATH 365 Introduction to Computational Mathematics<br>MATH 465 Numerical Methods I<br>MATH 471 Data Analysis<br>MATH 472 Computational Statistics<br>ME 470 Finite Element Methods<br>ME 471 Parallel Scientific Computing<br>MSE 463 Materials Modeling<br>MSE 464 Computational Materials Science<br>PHYS 325 Scientific Computing | 12             |
| <b>Total</b>   | <b>12</b>      |
| The certificate will be awarded following completion of an associate or baccalaureate degree.  |                |

|  |                |
|--|----------------|
| <b>Energy/Environment Certificate</b>  |                |
| <i>Course Number and Title</i>   | <i>Credits</i> |
| ME 420 Thermodynamics II   | 3              |
| ME 426 Renewable Energy  | 3              |
| Two (2) courses chosen from:<br>CE 320, CE 321L Principles of Environmental Engineering<br>CE 316/GEOS 316 Hydrology<br>ECE 371 Smart Grid and Renewable Energy Systems<br>ENVSTD 410 Energy and the Environment<br>GEOS 305 Global Climate Change | 6              |
| <b>Total</b>   | <b>12</b>      |
| The certificate will be awarded following completion of an associate or baccalaureate degree.  |                |

|   |                |
|---|----------------|
| <b>HVAC/Building Systems Certificate</b>  |                |
| <i>Course Number and Title</i>  | <i>Credits</i> |
| CMGT 350 Mechanical and Electrical Installations  | 4              |
| ME 325 HVAC Principles  | 3              |
| ME 420 Thermodynamics II  | 3              |
| Upper-division course in HVAC design  | 3              |
| <b>Total</b>  | <b>13</b>      |
| The certificate will be awarded following completion of an associate or baccalaureate degree. |                |

|  |                |
|--|----------------|
| <b>Industrial Processes Certificate</b>  |                |
| <i>Course Number and Title</i>   | <i>Credits</i> |
| ENGR 360 Engineering Economy   | 3              |
| ENGR 460 Manufacturing Process Control & Improvement   | 3              |
| Two (2) courses chosen from:<br>MATH 301 Introduction to Linear Algebra<br>ME 464 Production Engineering<br>ME 465 Robust Control of Industrial Systems<br>ME 472 Vibrations<br>ME 478 Design and Analysis of Mechatronic Systems<br>ME 486 Human Factors Design<br>ME 488 Design for Manufacture and Assembly | 6              |
| <b>Total</b>   | <b>12</b>      |
| The certificate will be awarded following completion of an associate or baccalaureate degree.  |                |

|   |                |
|---|----------------|
| <b>Mechanical Design Certificate</b>  |                |
| <i>Course Number and Title</i>  | <i>Credits</i> |
| Three (3) courses chosen from:<br>ME 424 Thermal Fluids Systems Design<br>ME 460 Computer Aided Design<br>ME 462 Machine Design<br>ME 466 Computer Integrated Design and Manufacturing<br>ME 482 Optimal Design<br>ME 484 Robust Design<br>ME 485 Vehicle Design<br>ME 486 Human Factors Design<br>ME 488 Design for Manufacture and Assembly | 9              |
| One (1) course chosen from:<br>COID 300 Design Thinking: Creative Problem Solving<br>COID 330 Creative Concepting<br>COID 332 Analytics for Design  | 3              |
| <b>Total</b>  | <b>12</b>      |
| The certificate will be awarded following completion of an associate or baccalaureate degree.   |                |

| Mechanical Materials Certificate  |                |
|---|----------------|
| <i>Course Number and Title</i>  | <i>Credits</i> |
| Four (4) courses chosen from:<br>These courses are generally available at least once a year.<br>MSE 312 Mechanical Behavior of Materials<br>MSE 308 Thermodynamics of Materials<br>ME 450 Advanced Mechanics of Materials<br>ME 477 Biomaterials  | 12             |
| These courses are taught infrequently:<br>CE 442 Microstructure, Properties, and Performance of Concrete<br>ME 442 Corrosion Engineering<br>ME 444 Fatigue and Fracture Mechanics<br>ME 454 Composites<br>MSE 473 Physical Properties of Polymers |                |
| Total   | 12             |
| The certificate will be awarded following completion of an associate or baccalaureate degree.   |                |

| Mechatronics Certificate   |                |
|--|----------------|
| <i>Course Number and Title</i>   | <i>Credits</i> |
| MATH 301 Introduction to Linear Algebra  | 3              |
| One (1) course chosen from:<br>ME 461/ECE 461 Control Systems<br>ME 472 Vibrations<br>ME 474 Introduction to Robotics  | 3              |
| Two (2) courses chosen from:<br>MATH 365 Introduction to Computational Mathematics<br>ME 380 Kinematics and Machine Dynamics<br>ME 461/ECE 461 Control Systems<br>ME 465 Robust Control of Industrial Systems<br>ME 472 Vibrations<br>ME 474 Introduction to Robotics<br>ME 478 Design and Analysis of Mechatronic Systems | 6              |
| Total  | 12             |
| The certificate will be awarded following completion of an associate or baccalaureate degree.  |                |

| Solid Mechanics Certificate  |                |
|--|----------------|
| <i>Course Number and Title</i>   | <i>Credits</i> |
| Four (4) courses chosen from:<br>These courses are generally available at least once a year:<br>CE 352 Structures I<br>ME 356 Introduction to Solid Biomechanics<br>ME 450 Advanced Mechanics of Materials<br>ME 462 Machine Design<br>ME 470 Finite Element Analysis<br>ME 472 Vibrations<br>MSE 312 Mechanical Behavior of Materials | 12             |
| These courses are taught infrequently<br>CE 354 Structures II<br>ME 442 Corrosion Engineering<br>ME 444 Fatigue and Fracture Mechanics<br>ME 454 Composites  |                |
| Total  | 12             |
| The certificate will be awarded following completion of an associate or baccalaureate degree.  |                |

| Thermal-Fluids Certificate   |                |
|--|----------------|
| <i>Course Number and Title</i>   | <i>Credits</i> |
| ME 420 Thermodynamics II   | 3              |
| One (1) course chosen from:<br>ME 424 Thermal and Fluids Systems Design<br>ME 430 Fluid Dynamics   | 3              |
| Two (2) courses chosen from:<br>CE 316 (GEOS 316) Hydrology<br>MATH 365 Introduction to Computational Mathematics<br>MATH 436 Partial Differential Equations<br>ME 426 Renewable Energy Systems<br>ME 424 Thermal and Fluids Systems Design<br>ME 430 Fluid Dynamics | 6              |
| Total  | 12             |
| The certificate will be awarded following completion of an associate or baccalaureate degree.  |                |

## Course Offerings

### ME—Mechanical Engineering

Note: The following courses are listed but will not be offered starting fall 2020: ME 105, ME 271, ME 302, ME 315, ME 320, ME 330. See department for additional details.

#### Lower Division

#### ME 105 MECHANICAL ENGINEERING GRAPHICS (3-0-3)(F/S).

Theory and practice of creating graphical models for engineered products. PREREQ: MATH 170.

#### ME 112 INTRODUCTION TO BIOMEDICAL ENGINEERING (1-0-1)

(F/S). An introduction to the broad field of biomedical engineering. This course will survey topics related to medical devices, biomaterials, biomechanics, and bioinstrumentation. PREREQ: CHEM 111.

#### ME 187 GRAPHICAL COMMUNICATIONS (1-2-2)(F, S).

Theory and practice of creating graphical models for engineered products. PREREQ: MATH 170.

**ME 201 ENGINEERING MECHANICS I (3-0-3)(F, S).** Methods and procedures of engineering analysis. Principles of equilibrium applied to engineering systems using forces and moments. Two and three dimensional applications of scalars and vectors. Isolation of appropriate subsystems using free-body diagrams. PREREQ: MATH 170, PHYS 211.

**ME 203 ENGINEERING MECHANICS II (3-0-3)(F, S).** Apply appropriate governing equations to dynamical systems. Analyze kinetic systems using concepts of force and acceleration, work and energy, and impulse and momentum. Apply appropriate constraints to analyze kinematic systems. PREREQ: ME 201 (or ENGR 210), MATH 175.

**ME 215 ENGINEERING COMMUNICATIONS LAB WITH INSPIRE ME SEMINAR (1-0-1)(F, S).** Seminars with invited leaders from research and industry. Includes public speaking, using new media to communicate, and the use of journal clubs to practice oral communication.

**ME 260 INTRODUCTION TO MACHINING (1-0-1)(F/S).** This course is an overview of standard shop practices. Topics include the safe use of precision measuring tools, vertical knee mill, lathe, and other basic metalworking tools. PREREQ: ME 187.

**ME 271 INTRODUCTION TO COMPUTATION FOR ENGINEERS (0-2-1)(F/S).** In this application-based course, students will develop programming skills to solve problems in engineering and science using industry software packages such as Matlab. Numerical methods such as vector analysis, linear algebra, interpolation, root finding, and numerical integration will be introduced and used in real-world examples. PRE/COREQ: PHYS 211 and PREREQ: CS 117.

**ME 273 INTRODUCTION TO COMPUTATION FOR ENGINEERS (1-2-2)(F, S).** Development of programming skills including algorithm

## MECHANICAL AND BIOMEDICAL ENGINEERING

implementation, file and keyboard I/O, basic numerical methods and error handling, data types and visualization and good programming practices.

Assignments will be engineering-based programming projects. PREREQ: CS 117 or CS 121, PRE/COREQ: PHYS 211.

**ME 287 DESIGN I WITH LAB (1-2-2)(F, S).** Introduction to engineering design theory, design processes, and codes and standards. Exploration of current manufacturing techniques, engineering ethics, system engineering, and effective teamwork. PREREQ: ME 187 or ME 105.

### Upper Division

**ME 301 SOLID MECHANICS I (3-0-3)(F, S).** Stress, strain, and deflection of machine and structural elements due to combined loading. Basic failure theories, elastic instability. PREREQ: ME 187 (or ME 105), ME 203 (or ENGR 220), ME 273 (or ME 271), MSE 245, MATH 275, MATH 333, ME major status.

**ME 301L SOLID MECHANICS LAB (0-2-1)(F, S).** Practical experience in testing engineering materials, data acquisition, data analysis, and technical communication. PRE/COREQ: ME 301 and ME major status.

**ME 302 THERMODYNAMICS I (3-0-3)(F/S).** Thermodynamic properties of fluids, 1-D heat transfer, compression and expansion work, system and process analysis applying the first and second laws of thermodynamics, basic heat engine and heat pump theory, and cycles. PREREQ: CHEM 111, MATH 175, PHYS 211.

**ME 303 SOLID MECHANICS II (3-0-3)(F, S).** Systems approach to design and analysis of machines to prevent static and fatigue failure. Stochastic analysis of safety and design factors. PREREQ: ME 301 (or ME 350), MATH 360 (or MATH 361), ME major status.

**ME 310 EXPERIMENTAL METHODS LAB (1-2-2)(F/S).** Instrumentation, data acquisition, and theory verification in the engineering sciences. Emphasis placed on experimental procedure, uncertainty analysis, and technical communication. PREREQ: MATH 360 (or MATH 361), ME major status.

**ME 313 EXPERIMENTAL METHODS LAB I (1-2-2)(F, S).** Design, implementation, analysis, and reporting of engineering experiments in a team environment. Use of statistics and modern data-acquisition systems and software. Evaluation and comparison of theoretical and experimental results. Oral and written presentations required. PREREQ: ME 301L, MATH 360 or MATH 361, and ME major status.

**ME 315 CURRENT TOPICS IN MECHANICAL ENGINEERING (1-0-1)(F, S).** Explores current topics within the broad field of mechanical engineering in a seminar format. Discussion topics range from professional skill development, introductions to relevant industries and nationally recognized research presentations. Students will learn to participate in discussions and communicate with other technical professionals. May be repeated up to three times for credit. PREREQ: Mechanical Engineering major or PERM/INST.

**ME 320 HEAT TRANSFER (3-0-3)(F/S).** Steady and unsteady heat transfer by conduction, free and forced convection, and radiation. PREREQ: ME 271, ME 302, ME 330, MATH 275, MATH 333, and ME major status.

**ME 321 THERMAL/FLUIDS I (3-0-3)(F, S).** Introduction to thermal and fluidic systems. Control mass/volume analysis, conservation of mass, energy, and momentum, First and Second Law of Thermodynamics. Constitutive equations. PREREQ: ME 273 (or ME 271), ME 203 (or ENGR 220), MATH 175, ME major status, or PERM/INST.

**ME 323 THERMAL/FLUIDS II (3-0-3)(F, S).** Thermodynamic cycles. Differential analysis of fluid and heat flows. Fluidic and heat-transfer applications including Navier Stokes and heat equation. Transient and steady-state conduction, convection, and radiation. PREREQ: MATH 275, ME 321 (or ME 302 and ME 320), ME major status.

**ME 325 HVAC PRINCIPLES (3-0-3)(F/S).** Heating, ventilating and air conditioning applications of thermodynamic and psychrometric principles. Calculation of heating and cooling loads based on thermal comfort and design

of processes and equipment that maintain desired indoor air quality. PREREQ: ME 321 or ME 302.

**ME 330 FLUID MECHANICS (3-0-3)(F/S).** Physical properties of fluids, fluid mechanics, measurements, viscous flow, turbulent flow, momentum, lift, drag, boundary layer effects, pipe flow, and open channel flow. PREREQ: ENGR 210, MATH 275, MATH 333.

**ME 331 FLUID MECHANICS LAB (0-3-1)(F/S).** Fluid mechanics experiments, measurements, data acquisition, and data analysis. Viscosity, fluid statics, hydraulics, computational fluid dynamics, pipe flow, turbulence, drag, and lift. COREQ: ME 330 or CE 330.

**ME 337 (CS 330)(ECE 337)(ENGR 337)(MATH 337) INTRODUCTION TO SECURITY IN CYBER-PHYSICAL SYSTEMS (3-0-3)(F).** Overview of systems security: hardware, software, encryption, and physical security. Includes multiple modules: system security, physical issues in security, hardware and firmware security issues, industrial control, and all things connected to the internet. PREREQ: CS 117 or CS 121, PHYS 211, and MATH 189 or MATH 360 or MATH 361.

**ME 350 ENGINEERING MECHANICS OF MATERIALS (3-0-3)(F/S).** Principles of stress, strain, and deformation applied to the analysis of engineering structures including beams, shafts, and columns. PREREQ: ENGR 210 (or ME 201), MATH 175.

**ME 352 MACHINE DESIGN I (3-0-3)(F/S).** Stress and deflection analysis of machine parts under loading. Development and application of theories that predict failure of machine parts due to elastic instability, yielding, fracture, crack propagation and fatigue. PREREQ: ME 350 (or ME 301), MATH 360 (or MATH 361), ME 105 (or ME 187), MSE 245, MSE 245L, ME major status.

**ME 356 INTRODUCTION TO SOLID BIOMECHANICS (3-0-3)(F/S).** Principles of engineering mechanics as applied to the human musculoskeletal system. Topics include functional anatomy, human motion analysis, mechanical properties of biological tissues, and modeling of the human body. PREREQ: ME 201 (or ENGR 210), or PERM/INST.

**ME 360 (ECE 360) SYSTEM MODELING AND CONTROL (3-0-3)(F, S).** Modeling and simulation of physical systems. Transfer functions, block diagrams, step responses and stability. Design of feedback control systems in the Laplace domain. May be taken for ECE or ME credit, but not both. PREREQ: MATH 333, ENGR 240 or ECE 212.

**ME 370 ADVANCED ENGINEERING MATHEMATICS (3-1-3)(On Demand).** Application of advanced mathematics to engineering problems. Laplace and Fourier transforms, linear and nonlinear systems of equations, vector calculus, Greens and Stokes theorems, divergence, gradient, and curl. Numerical methods used for modeling and analysis. PREREQ: MATH 275, MATH 333.

**ME 380 KINEMATICS AND MACHINE DYNAMICS (3-0-3)(F/S).** Analysis, synthesis, and simulation techniques to characterize, analyze, and design mechanisms and machines to meet performance and functional criteria. Design projects reinforce concepts and methodologies. Both student-generated code and commercial program use emphasized. PREREQ: ME 203 (or ENGR 220), ME 273 (or ME 271), MATH 275, MATH 333.

**ME 387 DESIGN II WITH LAB (1-2-2)(F, S).** Project-based design experience with applications of teamwork, design, and organization from previous and current coursework. Complex projects will require consideration of codes and standards, engineering economics, benchmarking, budgeting, and vendor constraints. Designs will be validated to determine the accomplishment of project goals. PREREQ: ME 287 and ME major status.

**ME 401 ENGINEERING SYSTEMS AND APPLICATIONS (3-0-3)(F, S).** Analyze and optimize simple and complex engineering systems using appropriate theories and principles of engineering and science. PREREQ: ME 203 (or ENGR 220), ME 303 (or ME 352), ME 321 (or ME 302), ME 323 (or ME 330 and ME 320), MATH 360 (or MATH 361), ME major status.

**ME 402 APPLIED NUMERICAL METHODS FOR ENGINEERS (3-0-3)(On Demand).** Approximate and numerical methods for solving systems of

linear and nonlinear equations, and ordinary and partial differential equations with engineering applications. Finite difference and finite element techniques; roots, curve fitting, and numerical integration. PREREQ: MATH 333 and, CS 117 or CS 121.

**ME 411 SELECTED TOPICS IN INDUSTRIAL ENERGY EFFICIENCY (1-0-1)(F/S/SU).** Examines principles of thermodynamics and engineering applied to industrial processes. Topics include industrial refrigeration, process heat, compressors and motors, building envelope and energy management. PREREQ: ME 321 (or ME 302), or PERM/INST.

**ME 413 EXPERIMENTAL METHODS LAB II (1-2-2)(E, S).** In-depth continuation of ME 313, including signal conditioning and processing, complex measurement systems, Design of Experiments (DOE) and Analysis of Variance (ANOVA). Application of full and partial-fraction factorial design to higher-dimension matrices. PREREQ: ME 313 (or ME 310), ME major status.

**ME 420 THERMODYNAMICS II (3-0-3)(F/S).** Advanced topics and applications of thermodynamics include power and refrigeration cycles, combustion, mixed gas properties, chemical equilibrium, and psychrometric applications. PREREQ: ME 321 (or ME 302), MATH 275.

**ME 424 THERMAL AND FLUIDS SYSTEMS DESIGN (3-0-3)(F/S).** Applied thermodynamics, fluid mechanics, and heat transfer in design of HVAC systems, thermal power plants and engines, related piping or ducting systems. Design for system optimization, simulation, and economics. PREREQ: ME 323 (or ME 320 and ME 330).

**ME 426 RENEWABLE ENERGY SYSTEMS (3-0-3)(F/S).** A survey of renewable energy systems including solar, wind, biomass, as compared to traditional electric power production and distribution. Technical, economic, and system integration issues are examined. PREREQ: ENGR 240, ME 323 (or ME 320 AND ME 330).

**ME 430 FLUID DYNAMICS (3-0-3)(On Demand).** Advanced fluid mechanics theory and applications in potential flow, viscous flow, boundary layer theory, turbulent flow and turbulence modeling, compressible flow, turbomachinery, and computational fluid dynamics. PREREQ: ME 323 (or ME 320 and ME 330).

**ME 432 ACOUSTICS (3-0-3)(On Demand).** Basic theories of acoustics, wave equations, acoustic response, sound generation, transmission, and attenuation. Measurement techniques and nomenclature. PREREQ: ME 321 (or ME 330).

**ME 433 DYNAMIC METEOROLOGY (3-1-3)(On Demand).** Atmospheric dynamics and thermodynamics, planetary boundary layer, jet stream dynamics and global circulation systems, numerical modeling and forecasting, climate change topics, and weather analysis. A weekly one-hour lab includes weather analysis topics and weather-related activities on the WEB. PREREQ: MATH 275, MATH 333.

**ME 442 CORROSION ENGINEERING (3-0-3)(Intermittently).** Electrochemical principles, thermodynamics, types of corrosion, corrosion measurements, and corrosion prevention with examples from selected industries.

**ME 444 FATIGUE AND FRACTURE MECHANICS (3-0-3)(On Demand).** Fatigue and fracture of materials. Fatigue nucleation, crack growth, temperature effects, fracture toughness and resistance, and design considerations. PREREQ: ME 301 (or ME 350), MATH 275, MATH 333, or PERM/INST.

**ME 450 ADVANCED MECHANICS OF MATERIALS (3-0-3)(On Demand).** Extension of stress-strain concepts to three-dimensions, plate and shell analysis, failure theories, and fatigue. Analysis and visualization techniques include Finite Element Analysis and photoelasticity. PREREQ: ME 301 or ME 350.

**ME 454 COMPOSITES (3-0-3)(On Demand).** Mechanics of composite materials. Solid mechanics principles used to analyze layered composites, long and short fiber composites, and woven composites. Finite Element Analysis reinforces content. PREREQ: ME 301 (or ME 350), MATH 275.

**ME 460 COMPUTER AIDED DESIGN (3-0-3)(On Demand).** Computer programs used to develop 3-D CAD database for design, analysis, simulation, and manufacturing. Machinery design to meet functional, performance, reliability and manufacturing requirements. Design projects reinforce concepts and methodologies. PREREQ: ME 323 (or ME 302 and ME 330), ME 352 (or ME 303).

**ME 461 (ECE 461) CONTROL SYSTEMS (3-0-3)(Offered as Justified).** Time and frequency domain analysis and design of feedback systems using classical and state space methods. Observability, controllability, pole placement, and observers. May be taken for ECE or ME credit, but not both. PREREQ: ECE 360 or ME 360.

**ME 462 MACHINE DESIGN (3-0-3)(Intermittently).** Analysis and design of machines and structures to understand and prevent failure due to elastic instability, yielding, fracture, crack propagation or fatigue. Static, dynamic and cyclic loading will be considered. PREREQ: ME 303 or ME 352.

**ME 464 PRODUCTION ENGINEERING (3-0-3)(Intermittently).** Engineering design and control of production or manufacturing systems. Concurrent engineering, product design and process planning, facilities layout, quality control, management, inventory systems, scheduling, and information systems. PREREQ: ME 303 (or ME 352) or PERM/INST.

**ME 465 ROBUST CONTROL OF INDUSTRIAL SYSTEMS (3-0-3)(F/S).** Performance and vulnerabilities of continuous-feedback control systems in industrial applications. Theory, simulation, and real-world case studies, building on a basic understanding of dynamical systems. PREREQ: ME 360 or ECE 360, or PERM/INST.

**ME 466 COMPUTER INTEGRATED DESIGN AND MANUFACTURING (3-0-3)(On Demand).** Integration of computer aided design with manufacturing practices. Geometric modeling, CAD, concurrent engineering, group technology, process planning and control, numerical control, robotics, and automation. PREREQ: ME 301 or ME 350.

**ME 470 FINITE ELEMENT METHODS (3-0-3)(F/S).** Theoretical development of finite element methods, solution algorithm formulation, and problem solving in stress analysis, heat transfer, and fluid flow. PREREQ: ME 273 (or ME 271), ME 301 (or ME 350).

**ME 471 PARALLEL SCIENTIFIC COMPUTING (3-0-3)(Intermittently).** Introduction to parallel scientific and technical computing on supercomputers and modern graphics processing units. Finite difference methods to solve partial differential equations governing heat conduction and wave propagation. Scientific visualization of simulation data. Performance optimization of scientific codes. Course projects involve parallel computer programming of prototype problems. PREREQ: MATH 333 and CS 117, or PERM/INST.

**ME 472 VIBRATIONS (3-0-3)(Intermittently).** Theory and methods for analysis of vibrating physical systems. Natural frequencies, mode shapes, damping, forced vibrations, and frequency-response functions are analyzed by using computer simulation. PREREQ: ME 203 (or ENGR 220), MATH 333.

**ME 474 INTRODUCTION TO ROBOTICS (3-0-3)(Intermittently).** Fundamental theories and computational methodologies used in the design and analysis of robotic systems. Analytical formulation kinematic and dynamic equations for robot manipulators, how to synthesize trajectory and force tracking controllers, and how to utilize numerical algorithms to simulate and implement real-time hardware-in-the-loop controllers. PREREQ: MATH 333.

**ME 477 (BIOL 477)(MSE 477) BIOMATERIALS (3-0-3)(F/S).** Theory of biomaterials science. Medical and biological materials and their applications. Selection, properties, characterization, design and testing of materials used by or in living systems. PREREQ: CHEM 112 or MSE 245.

**ME 478 DESIGN AND ANALYSIS OF MECHATRONIC SYSTEMS (3-0-3)(F/S).** Design and analysis of engineering systems containing mechanical, electro-mechanical and embedded computer elements. The course provides an overview of basic electronics, digital logic, signal processing and electromechanical devices, and fundamentals of event-driven programming. PREREQ: ENGR 240.

## MECHANICAL AND BIOMEDICAL ENGINEERING

**ME 481 SENIOR DESIGN PROJECT I (2-3-3)(F/S)(FF).** First course for mechanical engineers in capstone design. Integration of previous coursework with modern design theory, methodology, teamwork and project management. Comprehensive group projects include determining customer requirements, developing design specifications, preparing concept and configuration designs, documentation and presentation. PREREQ: ME 310 and ME major status. COREQ: ME 424, ME 462.

**ME 482 OPTIMAL DESIGN (3-0-3)(On Demand).** Analytical and computer methods used to provide optimal design of products or processes. Formulation, specification, figures of merit, controllable variables, constraints, and relationships among design variables. Single and multi-variable optimization algorithms using linear and nonlinear programming methods to design problems in structures, machine components, and energy systems. PREREQ: MATH 275, PHYS 211, PHYS 211L.

**ME 483 SENIOR DESIGN PROJECT II (2-3-3)(F/S).** Second course for mechanical engineers in capstone design. Projects started in ME 481 continue with parametric design, prototyping, testing, documentation and presentation. PREREQ: ME 481 and ME major status.

**ME 484 ROBUST DESIGN (3-0-3)(On Demand).** Statistics and probability applied to the design of products and processes. Stochastic modeling and analysis of mechanical systems. Product reliability, series and parallel systems reliability, structural reliability, Taguchi methods, failure modes and effects analysis, and Monte Carlo simulation. PREREQ: ME 301 (or ME 350), ME 321 (or ME 302).

**ME 485 VEHICLE DESIGN (3-0-3)(On Demand).** Subsystem design for wheeled vehicles including bicycles, motorcycles, cars, trucks and ATVs. Static and dynamic analyses of traction and reaction forces during acceleration, braking and cornering. Suspension response analysis. Subsystem design including suspension, chassis, steering, transmission, brakes, and tires. PREREQ: ME 187 (or ME 105), ME 203 (or ENGR 220), ME 301 (or ME 350), MSE 245.

**ME 486 HUMAN FACTORS DESIGN (3-0-3)(On Demand).** Anthropometry, biomechanics, and psychology applied to machinery and systems designs which involve human interaction. Design considerations include efficiency, productivity, environmental factors, human capabilities, comfort, and safety. Design projects demonstrate concepts and methodologies. PREREQ: ME 301 (or ME 350), or PERM/INST.

**ME 487 SENIOR DESIGN PROJECT I (1-3-2)(F, S)(FF).** First course for mechanical engineers in capstone design. Integration of previous coursework with advanced application of design methodology, teamwork, and project management skills. Comprehensive group projects include determining customer requirements, specification creation, concept design, documentation, and presentation. PREREQ: ME 387. PRE/COREQ: ME 401, ME 413 and ME major status.

**ME 488 DESIGN FOR MANUFACTURE AND ASSEMBLY (3-0-3)(Intermittently).** Development and application of design methods for cost-effective and timely product manufacture and assembly. Concept, configuration, and parametric product design refinements evaluated with respect to alternative manufacturing and assembly processes. Case studies and design projects. PREREQ: ME 187 (or ME 105), ME 301 (or ME 350).

**ME 489 SENIOR DESIGN PROJECT II (1-3-2)(F, S).** Second course for mechanical engineers in capstone design. Projects started in ME 487 continue with detail design, prototyping, testing, documentation, and presentation. A familiarization with engineering practice in industry will be provided. PREREQ: ME 487 and ME major status.



# Department of Military Science (Army ROTC)

*School of Public Service*

ExtraMile Arena, next to entrance 3  
 (208) 426-3500 (phone)  
 (208) 343-0543 (fax)  
 armyrotc@boisestate.edu (email)  
<https://www.boisestate.edu/sps-militaryscience/> (website)

*CADRE—Chair and Professor:* LTC John Hawbaker. *Lecturers:* Chandler, Cisneros, Donaldson, Farina, Ingram, Kelleher.

## Degree Offered

- Minor in Military Science

## Department Statement

The objective of senior Army ROTC, is to provide world-class leadership training to transform Scholar - Athlete - Leaders at Boise State University into commissioned officers prepared to lead small units upon arrival to their first unit of assignment in the United States Army, Army Reserves, and Army National Guard. Two-thirds of all U.S. Army Officers commission through Army ROTC.

## Scope of Instruction

Army ROTC offers four years of military science courses at lower and upper-division levels. Participating students who do not enroll as cadets in ROTC are ineligible to participate in leadership labs, physical fitness classes, or training exercises. The lower-division courses can be waived for qualified veterans and soldiers currently enlisted on Active Duty (Green to Gold), the Reserves, or the National Guard. Lower-division courses can also be waived for students eligible to attend Basic Camp. Students who wish to enroll as ROTC cadets must apply and be accepted by the chair of the Department of Military Science. Upper-division cadets must complete two years of military science and associated labs, field training exercises, physical training, a U.S. military history course, and a six-week Cadet Summer Training (CST). CST provides practical application of the leadership principles and theories acquired in the classroom. Upon completion of upper-division requirements, qualified cadets are commissioned as second lieutenants in the U.S. Army, Army Reserve, or Army National Guard.

## Minor Admission Requirements

Boise State students enroll in military science courses by signing up during registration in the same manner as for other University classes. There is no advance application required for the lower-division courses, and enrolling in ROTC and taking military science courses incurs no military requirement. Students should contact the Department of Military Science to receive information on lab participation, physical requirements, and administrative items needed to enroll in the physical fitness class and labs. To receive the Military Science minor, a student must be admitted into and complete the upper division ROTC courses, to include labs, field training exercises, and the physical fitness course. In the upper division, these activities require that students enroll as ROTC cadets, with intent to contract into the U.S. Army. Cadets who successfully complete the upper-division courses will receive a Minor in Military Science. Prior to commissioning as officers, cadets must also meet army physical and civil conduct requirements, be U.S. citizens, and be accepted/recommended by the department's professor of military science.

## Scholarships

Two, three and four year on-campus scholarship applications are available through the Military Science Department. Scholarship pays full in or out of state tuition, books, and fees. Scholarship and contracted students receive a tiered educational stipend during the school year which pays monthly to facilitate our cadets' focus on academic performance and graduation.

Scholarship and contracted cadets will serve as a Commissioned Officer in the Army National Guard, Army Reserves, or Active Duty Army. Students may contact local Army National Guard or Army Reserve units to inquire about educational benefits available through participating in the Simultaneous Membership Program (SMP). For more information contact the Department of Military Science at (208) 426-3500.

## Uniforms

Basic and advanced course students will be provided uniforms and equipment for ROTC classes. All such items of clothing and equipment are the property of the U.S. Government and are provided solely for the purpose of providing military training of the student. Students are responsible for the safekeeping, care, and return of the property issued to them.

## Degree Requirements

| Military Science Minor                                |         |
|---|---------|
| Course Number and Title                               | Credits |
| HIST 339 United States Military History: 1775-Present | 3       |
| MILSCI 104 Corps Physical Fitness                     | 1       |
| MILSCI 301 Adaptive Team Leadership                   | 3       |
| MILSCI 301L Adaptive Team Leadership Lab              | 1       |
| MILSCI 302 Leadership in Changing Environments        | 3       |
| MILSCI 302L Leadership in Changing Environments Lab   | 1       |
| MILSCI 401 Developing Adaptive Leaders                | 3       |
| MILSCI 401L Developing Adaptive Leaders Lab           | 1       |
| MILSCI 402 Leadership in a Complex World              | 3       |
| MILSCI 402L Leadership in a Complex World Lab         | 1       |
| Total   | 20      |

## Course Offerings

### MILSCI—Military Science

Students may take all four years of offered Military Science classroom instruction without military obligation. Students wishing to attend the corresponding labs and physical fitness courses must meet eligibility requirements and enroll as cadets in the ROTC program. Only enrolled cadets are eligible for commissions into the United States Army, Army Reserves, or Army National Guard.

#### Lower Division

**MILSCI 101 INTRODUCTION TO THE ARMY (1-0-1)(F).** Introduction to the Army, Profession of Arms, and basic Soldier skills. Examines the Army Profession and what it means to be a professional in the U.S. Army. Development of basic knowledge and comprehension of the Army Leadership Requirements Model while gaining a complete understanding of the ROTC program, its purpose in the Army, and its advantages for the student. Basic Soldier skills to survive in a field environment to support their development as an Army leader. Learn to perform basic Soldier skills to survive in a field environment and support their development as an Army leader. For ROTC cadets. COREQ: MILSCI 101L.

**MILSCI 101L INTRODUCTION TO THE ARMY LAB (0-1-1)(F).** COREQ: ROTC program status. (Pass/Fail. )

**MILSCI 102 FOUNDATIONS OF LEADERSHIP (1-0-1)(S).** Introduction to the personal challenges and competencies that are critical for effective leadership. Focuses on personal development of life skills such as critical thinking, time management, goal setting, and communication. Learn the basics of the communications process and the importance for leaders to communicate effectively. Introduces squad level tactics. For ROTC cadets. COREQ: MILSCI 102L.

**MILSCI 102L FOUNDATIONS IN LEADERSHIP LAB (0-1-1)(S).** COREQ: ROTC program status. (Pass/Fail. )

## MILITARY SCIENCE

**MILSCI 104 CORPS PHYSICAL FITNESS (0-3-1)(S).** This course is a requirement for all contracted cadets. It is designed to help form the building blocks of fitness, leadership, and officership which is embedded in a values-based structure. Develop and implement a physical fitness plan using the U.S. Army PRT (Physical Readiness Training) program, focusing on strength, mobility and endurance. Addresses the importance of physical fitness as a “lifestyle” along with practical application of communication theory and interpersonal relationships. May be repeated for credit. PREREQ: PERM/CHAIR.

**MILSCI 201 APPLIED TACTICAL LEADERSHIP (2-0-2)(F).** Emphasizes leadership and ethics. Explores the advantages of different leadership styles. Students conduct leadership analysis of famous leaders and self-assessment of their own leadership style. Stresses the Army Values and Ethics and their relationship to the Law of Land Warfare and philosophy of military service. For ROTC cadets. COREQ: MILSCI 201L.

**MILSCI 201L APPLIED TACTICAL LEADERSHIP LAB (0-1-1)(F).** COREQ: ROTC program status. (Pass/Fail.)

**MILSCI 202 INNOVATIVE TACTICAL LEADERSHIP (2-0-2)(S).** Focuses on Army doctrine and team development. Requires students to understand and demonstrate competencies as they relate to Army doctrine. Reinforces lessons on the Army Values, Teamwork, and Warrior Ethos and their relationship to the Law of Land Warfare and philosophy of military service. For ROTC cadets. COREQ: MILSCI 202L.

**MILSCI 202L INNOVATIVE TACTICAL LEADERSHIP LAB (0-1-1)(S).** COREQ: ROTC program status. (Pass/Fail.)

### Upper Division

**MILSCI 301 ADAPTIVE TEAM LEADERSHIP (3-0-3)(F).** Students analyze, test, and relate the fundamentals of Training Management and Army operations through the Army's Warfighting Functions. Prepares students to plan, prepare, and execute training for a squad conducting small unit tactics. For ROTC cadets. PREREQ: Completion of lower-division MILSCI courses, qualified prior military service, or Basic Camp graduation; and PERM/CHAIR. COREQ: MILSCI 301L.

**MILSCI 301L ADAPTIVE TEAM LEADERSHIP LAB (0-1-1)(F).** COREQ: ROTC program status. (Pass/Fail.)

**MILSCI 302 LEADERSHIP IN CHANGING ENVIRONMENTS (3-0-3)(S).** Focuses on applied leadership in small unit operations. Students study, practice, and apply the fundamentals of direct level leadership and small unit tactics at the platoon level. Teaches students to plan, coordinate, navigate, motivate, and lead a platoon in the execution of a mission. Prepares students for Cadet Summer Training / Advanced Camp that cadets must complete at Fort Knox, KY, before commissioning. For ROTC cadets. PREREQ: MILSCI 301 and PERM/CHAIR. COREQ: MILSCI 302L.

**MILSCI 302L LEADERSHIP IN CHANGING ENVIRONMENTS LAB (0-1-1)(S).** COREQ: ROTC program status. (Pass/Fail.)

**MILSCI 401 DEVELOPING ADAPTIVE LEADERS (3-0-3)(F).** Focuses on development of the Army Officer. Students develop knowledge, skills, and abilities to plan, resource, execute, and assess training at the small unit level. Reinforces Army programs that support counseling subordinates and evaluating performance, values and ethics, career planning, and legal responsibilities. Familiarizes students with how to plan, prepare, execute, and continuously assess training at the company level. For ROTC cadets. PREREQ: MILSCI 302 and PERM/CHAIR. COREQ: MILSCI 401L.

**MILSCI 401L DEVELOPING ADAPTIVE LEADERS LAB (0-1-1)(F).** COREQ: ROTC program status. (Pass/Fail.)

**MILSCI 402 LEADERSHIP IN A COMPLEX WORLD (3-0-3)(S).** Students develop knowledge, skills, and abilities required of junior officers in the Army, focusing on Unified Land Operations and Company Grade Officer roles and responsibilities. Includes small group assignments, briefings, case studies, and an Oral Practicum. The Oral Practicum tests the students' abilities to apply knowledge gained throughout all of the Military Science curriculum. Prepares cadets for their Basic Officer Leader Course – B. For ROTC cadets. PREREQ: MILSCI 401 and PERM/CHAIR. COREQ: MILSCI 402L.

**MILSCI 402L LEADERSHIP IN A COMPLEX WORLD LAB (0-1-1)(S).** COREQ: ROTC program status. (Pass/Fail.)

**MILSCI 493 MILITARY SCIENCE INTERNSHIP (V-V-6)(F, S, SU).** This course will allow cadets to apply skills acquired throughout their time in Army ROTC to further prepare them for commissioning as officers in the Army, Army Reserves, and Army National Guard. PREREQ: PERM/CHAIR.

# Multidisciplinary Studies

College of Arts and Sciences

1023 South Grant Avenue  
(208) 426-3496 (phone)  
mds@boisestate.edu (email)  
<https://www.boisestate.edu/mds/> (website)

*Director:* Jon Schneider. *Associate Director:* Alexis Kenyon. *Academic Advising Coordinator:* Natalie Newell. *Advisors:* Dan Brock, Brian Chojnacky, Brooke Dolecheck, Larissa Monckton. *Student Success Coaches:* Heather Ropelato, Josh Taufalele. *Clinical Instructors:* Bennett, Lawley. *Lecturers:* Mahoney, Sass.

## Degree Offered

- Bachelor of Arts in Multidisciplinary Studies

## Program Statement

The Bachelor of Arts in Multidisciplinary Studies degree is designed to meet the needs of adult students with significant life experience who have already completed fifty-eight credit hours of college credit. Students will work closely with an academic advisor to develop an academic degree plan through which they can meet their stated goals and university core learning outcomes. The student's degree plan must meet the requirements of and be approved by the Multidisciplinary Studies Advisory Committee.

## Admission Requirements

Admission to the Bachelor of Arts in Multidisciplinary Studies program requires a minimum of 58 semester credits earned with a 2.25 GPA. All transfer credit accepted toward the Bachelor of Arts in Multidisciplinary Studies degree must have a grade of C- or better. In addition, the applicant must have significant life experience, e.g., several years of full-time paid or volunteer employment, military experience, family care-provider, or other non-academic life experience.

## Degree Requirements

| Multidisciplinary Studies<br>Bachelor of Arts   |         |
|---|---------|
| Course Number and Title   | Credits |
| University Foundations requirements indicated in bold. See page 48 for details and lists of approved courses. |         |
| <b>UF 100</b> Foundations of Intellectual Life  | 3       |
| <b>UF 200</b> Foundations of Ethics and Diversity   | 3       |
| <b>FW ENGL 101</b> Writing and Rhetoric I   | 3       |
| <b>FW ENGL 102</b> Writing and Rhetoric II  | 3       |
| <b>FC</b> Foundations of Oral Communication   | 3       |
| <b>FM</b> Foundations of Mathematics course   | 3-4     |
| <b>FN</b> Foundations of Natural, Physical, & Applied Sciences course with lab                                | 4       |
| <b>FN</b> Foundations of Natural, Physical, & Applied Sciences course in a second field                       | 3-4     |
| <b>FA</b> Foundations of Arts course  | 3       |
| <b>FH</b> Foundations of Humanities course  | 3-4     |
| <b>FS</b> Foundations of Social Sciences course   | 3       |
| <b>FS</b> Foundations of Social Sciences course in a second field   | 3       |
| MDS 305 Introduction to Multidisciplinary Studies   | 1       |
| MDS 315 Integrative Learning  | 2       |
| MDS 375 Perspective Taking  | 3       |
| MDS 385 Asking Questions and Framing Problems   | 3       |
| MDS 492 Proposal for Capstone Project   | 1       |
| <b>FF MDS 495</b> Capstone Project  | 2       |

|   |       |
|---|-------|
| In addition, complete the requirements of either the Flex Track or the Online Track to graduate with a BA in Multidisciplinary Studies.                           |       |
| <b>Flex Track</b>   |       |
| Emphasis Area(s)<br>Select 18 upper-division credits from one or more emphasis areas. Emphasis area(s) must be approved by the student's advisor. *               | 18    |
| Upper-division electives to total 40 credits*   | 10    |
| Electives to total 120 credits  | 40-43 |
| <b>Total</b>  | 120   |
| <b>Online Track</b>   |       |
| Emphasis Area(s)<br>Select 18 upper-division credits from one or more online emphasis areas. Online emphasis area(s) must be approved by the student's advisor. * | 18    |
| Upper-division electives to total 40 credits*   | 10    |
| Electives to total 120 credits  | 40-43 |
| <b>Total</b>  | 120   |
| *493 Internship, 494 Conference or Workshop, and 496 Independent Study are limited to a combined total of nine (9) credits.                                       |       |

## Course Offerings

### MDS—Multidisciplinary Studies

#### Lower Division

**MDS 201 PRIOR LEARNING SEMINAR (1-0-1)(F/S/SU).** Designed to assess prior learning obtained outside of a traditional classroom. Students will receive the knowledge necessary to petition previous, verifiable college-level learning gained through experience, not for the experience itself, as possible academic credit. Students will learn to differentiate between experience, experiential learning, and learning by experience. Emphasis will be on creating a prior learning portfolio. PREREQ: PERM/INST.

#### Upper Division

**MDS 301 PRIOR LEARNING SEMINAR (1-0-1)(F/S/SU).** Designed to assess prior learning obtained outside of a traditional classroom. Students will receive the knowledge necessary to petition previous, verifiable college-level learning gained through experience, not for the experience itself, as possible academic credit. Students will learn to differentiate between experience, experiential learning, and learning by experience. Emphasis will be on creating a prior learning portfolio. PREREQ: PERM/INST.

**MDS 305 INTRODUCTION TO MULTIDISCIPLINARY STUDIES (1-0-1)(F/S/SU).** Explore academic and career goal-setting, the connection of theory to practice, academic culture, academic integrity, the vital nature of an academic support community, and the qualities of a reflective and adaptive learner. PREREQ: Admission to the MDS Program.

**MDS 315 INTEGRATIVE LEARNING (2-0-2)(F/S/SU).** Explore the theory and practice of integrative learning and the skills and strategies necessary to develop an integrative mindset, to integrate personal histories and experiences with new ideas, and to become a reflective and adaptive learner. COREQ: BAS 305 or MDS 305.

**MDS 375 PERSPECTIVE TAKING (3-0-3)(F/S/SU).** Examine an issue from multiple perspectives and learn to broadly and accurately grasp other viewpoints, to identify the differences between them, to discover the common ground they share, and to evaluate their soundness. COREQ: MDS 315.

**MDS 385 ASKING QUESTIONS AND FRAMING PROBLEMS (3-0-3)(F/S/SU).** Question a practical problem holistically to identify its conditions and costs, to discover new connections and relationships, and ultimately, to recognize, understand, and clearly articulate its breadth and complexity. COREQ: MDS 315.

## MUSIC

**MDS 410 CASE STUDIES IN LEADERSHIP (3-0-3)(F/S/SU).** Introduces and analyzes effective leadership styles. Leadership practices and models are applied to case studies. Through various forms of reading, writing, presentations, video and/or multi-media, students will apply theories to assess their own leadership style and identify styles of popular companies/people. Completion of LEAD 325 is recommended. COREQ: BAS 305 or MDS 305 or declared a leadership certificate with upper-division standing or PERM/INST.

**MDS 420 GLOBALIZATION (3-0-3)(F/S/SU).** Introduces the historical and modern phenomenon of Globalization. Various themes in globalization will be studied, including: economics, national powers, history, trade, environment, religion, and education. Each module will introduce particular aspects of globalization. COREQ: BAS 305 or MDS 305 or PERM/INST.

**MDS 430 ETHICS (3-0-3)(F/S/SU).** Examines universal ethics principles and standards practiced across various disciplines. Exploration of personal and professional conduct and social responsibility in the light of existing ethical, moral and social values across disciplines will also be discussed. Designed to enable students to form individual positions on ethical conduct and social responsibility, this course both identifies and applies ethical principles to real world situations. COREQ: BAS 305 or MDS 305 or PERM/INST.

**MDS 440 PROJECT MANAGEMENT AND DESIGN (3-0-3)(F/S/SU).** The course develops a foundation of concepts that support the project management process groups required for successful implementation and completion of a project. Principles and applied techniques of effective planning, communication, risk, schedule, and cost management are major themes discussed in this course. COREQ: BAS 305 or MDS 305 or PERM/INST.

**MDS 450 TEAMWORK AND INNOVATION (3-0-3)(F/S/SU).** Identifies the creative people, processes and conditions necessary for fostering innovation and models of innovation including creative problem solving with teams. Students show understanding through demonstration of competency in identifying, describing, fostering, demonstrating and assessing programs that foster creativity and innovation a team environment. COREQ: BAS 305 or MDS 305 or PERM/INST.

**MDS 492 PROPOSAL FOR CAPSTONE PROJECT (1-0-1)(F/S/SU).** Design and plan a personally and professionally relevant capstone project. COREQ: MDS 375 and MDS 385 and PERM/INST.

**MDS 493 INTERNSHIP (V-V-V)(F/S/SU).** Supervised fieldwork designed to receive academic credit for professional experience that is relevant to your Individual Degree Plan (IDP) goals. PREREQ: MDS 305 and PERM/INST.

**MDS 495 CAPSTONE PROJECT (2-0-2)(F/S/SU)(FF).** Finalize and present an approved capstone project and write a culminating self-evaluation. COREQ: MDS 492 and PERM/INST.

## Department of Music

*College of Arts and Sciences | School of the Arts*

Morrison Center, Room C-100  
(208) 426-1596 (phone)  
(208) 426-1771 (fax)  
jennieficks@boisestate.edu (email)  
<https://www.boisestate.edu/music/> (website)

*Chair and Professor:* Linda Kline. *Professors:* Baldwin, Belfy, Berg, Hansen, Molumby, Parkinson. *Associate Professors:* Brown, Hodges, Jirak, L. Moreau, Porter, Rushing-Raynes, Tornello. *Assistant Professors:* Alexander, Buie, Ganong, Gray, Paradis, Purdy, Waterman. *Lecturer:* B. Moreau.

### Degrees Offered

- Bachelor of Arts in Music
- Bachelor of Music in Composition
- Bachelor of Music in Music Education
- Bachelor of Music in Performance
  - Bowed Strings Option
  - Piano Option
  - Voice Option
  - Wind/Brass/Percussion Option
- Minor in Music

### Department Statement

The Department of Music trains students to become successful and productive performing musicians, teachers, and music industry professionals, giving them a thorough and comprehensive background in the art and practice of music. The department also provides opportunities which heighten musical awareness in the general, non-major student. The achievement of musical excellence is facilitated by the faculty in the courses, degree programs, and majors offered by the department at both the undergraduate and graduate levels.

In addition, the Department of Music serves the university community, the larger community of metropolitan Boise and the State of Idaho, by offering courses, musical performances, and by providing leadership for many cultural activities in the community.

The Department of Music offers a Bachelor of Music in music with three emphases: performance, composition, and music education. The performance and composition emphases are designed to train performers, teachers, and composers. These emphases are basic to preparing students for graduate work in the creative and performing arts and for work as educators at the college and university level.

The music education emphasis is designed to prepare students for careers in teaching music at the elementary and secondary levels; in addition, this emphasis prepares students for graduate study in music.

The BA in music is appropriate for students who wish to pursue general music studies within a broad-based program of liberal arts study.

A variety of music scholarships are available from the department. In addition, scholarships are offered for joining the marching band. For more information, contact the Department of Music.

### Admissions Procedures

All incoming and transfer students (including music minors) must perform an audition for the music faculty and take the Music Literacy Predictive Exam. Students who a) complete an acceptable performance audition, and b) complete the Exam will be granted Music Major status. Students who a) complete an audition that shows promise but is not yet acceptable, and b) complete the Exam will be granted Pre-Music Major Status. Pre-Music Majors will have one semester to improve performance skills for Music Major Status. Only Music Major, Pre-Major, and Music Minor status students will be allowed to enroll in MUS 119 Materials of Music I and MUS 121 Ear Training I. Only Music

Majors and Music Minors will be allowed to enroll in MUS 120 Materials of Music II and MUS 122 Ear Training II.

## Degree Requirements

### Bachelor of Arts/Bachelor of Music Programs

**General Requirements** All full-time music majors must attend concert class during each semester of residency at Boise State University until the required number of semesters of Pass grade in concert class has been achieved, as follows:

- BA Music, BM Performance, and BM Composition emphases majors—8 semesters
- BM Music Education emphasis—7 semesters (see course description for MUS-APL 10 for additional details.)

All Music Majors and Minors who are enrolled in lessons must perform a semester-end jury on their primary instrument. Students presenting MUS-APL 444, MUS-APL 445 or MUS-APL 446 recitals are exempt from this jury during the semester in which the recital is given.

**Major Ensemble** All full-time undergraduate music majors, minors, and pre-majors must audition for major ensembles in their area (choral; strings; brass winds and percussion) and register in the ensemble to which they are assigned (Symphonic Winds, All-Campus Band, University Orchestra, Meistersingers, University Singers, or Vox Angelis), each semester until the minimum number of semesters for graduation has been met. Only one major ensemble per semester may be counted toward graduation requirements.

### Minimum Ensemble Requirements

- Bachelor of Music:
  - Performance Majors:
    - Keyboard—8 semesters, up to 2 semesters may be Accompanying (MUS-ENS 180/380); up to 3 semesters may be Duo-Piano Ensemble (MUS-ENS 185/385) or Chamber Music (MUS-ENS 127/327)
    - Voice—8 semesters, up to 2 may be Opera Workshop
    - All Others—8 semesters
  - Composition Majors—8 semesters
  - Music Education Majors—7 semesters
- Bachelor of Arts:
  - Music—4 semesters
- Music Minors—2 semesters

### Music Education Emphasis Additional Requirements

In addition to the above general requirements, all music education majors in the Bachelor of Music program must fulfill the requirements listed below:

1. Successfully complete the Music Education interview with Music Education faculty who will contact the student following completion of MUS 230 Foundations of Music Education. Successful completion of the interview will allow the student to continue in the music education program and to enroll in music methods courses MUS 372 Teaching Music in the Elementary Classroom, MUS 385 Choral Methods and Materials, and MUS 387 Band and Orchestra Methods and Materials. Music Education Interview Committee approval for continuation is based upon the student's academic record, demonstrated ability to complete all departmental requirements outlined above, and the committee's judgment regarding the student's music skills, behavioral characteristics, and temperament necessary for success as a teacher. A further description of these traits can be found in the *Secondary Education Student Handbook* and in the *Code of Ethics of the Idaho Teaching Profession*. The Music Education Interview Committee may exclude from further music education coursework any student identified as lacking the above characteristics and competencies. A student thus excluded is entitled to due process through the Department of Music's *Boise State University Undergraduate Catalog* 223 Music Appeals Committee and normal appeals procedures as described in the *Boise State University Student Handbook*.

2. Students must obtain a grade of C or above in the following courses in order to apply to the Teacher Education program with the College of Education (the semester prior to ED-CIFS 301 Teaching Experience I):
  - MUS 119 Materials of Music I (waives the State requirement to take ED-LLC 444 Content Literacy for Secondary Students)
  - MUS-APL 109 Class Piano II (fulfills piano proficiency requirement)
  - MUS 230 Foundations of Music Education
  - MUS 256 Vocal Techniques and Methods (fulfills vocal proficiency requirement)
  - MUS 372 Teaching Music in the Elementary Classroom
  - MUS 385 Choral Methods and Materials
  - MUS 387 Band and Orchestra Methods and Materials
3. Students must obtain a grade of C or above and a grade point average (GPA) of B for these courses:
  - ED-CIFS 201 Education, Schooling, and Society
  - MUS 208 Music Technology (satisfies the technology requirement established by the College of Education)
4. Successfully complete and pass the Praxis II music exam prior to applying for the professional year semester (student teaching).
5. Acceptance into a voice studio by audition is the vocal proficiency for voice music education majors. Piano music education majors will have a proficiency exam with the piano faculty.

| Performance Bachelor of Music   |         |
|---|---------|
| Course Number and Title   | Credits |
| University Foundations requirements indicated in bold. See page 48 for details and lists of approved courses. |         |
| <b>UF</b> 100 Foundations of Intellectual Life  | 3       |
| <b>UF</b> 200 Foundations of Ethics and Diversity   | 3       |
| <b>FW</b> ENGL 101 Writing and Rhetoric I   | 3       |
| <b>FW</b> ENGL 102 Writing and Rhetoric II  | 3       |
| <b>FC</b> Foundations of Oral Communication   | 3       |
| <b>FM</b> Foundations of Mathematics course   | 3-4     |
| <b>FN</b> Foundations of Natural, Physical, & Applied Sciences course with lab                                | 4       |
| <b>FN</b> Foundations of Natural, Physical, & Applied Sciences course in a second field                       | 3-4     |
| <b>FA</b> Foundations of Arts course  | 3       |
| <b>FH</b> Foundations of Humanities course  | 3-4     |
| <b>FS</b> Foundations of Social Sciences course   | 3       |
| <b>FS</b> Foundations of Social Sciences course in a second field   | 3       |
| MUS 101 Survey of Western Art Music   | 2       |
| MUS 119, 120, 219, 220 Materials of Music   | 12      |
| MUS 121, 122, 221, 222 Ear Training   | 4       |
| MUS 261 Basic Conducting  | 1       |
| MUS 351, 352, 353 Music History and Literature  | 9       |
| MUS 410 Advanced Form and Analysis  | 3       |
| MUS 424 Counterpoint Since 1600   | 2       |
| MUS-APL 10 Concert Class (8 semesters of Pass grade)  | 0       |
| MUS-APL 108, 109 Class Piano  | 2       |
| MUS-APL 345 Junior Performance Recital  | 2       |
| <b>FF</b> MUS-APL 446 Senior Performance Recital  | 2       |
| MUS-ENS—Major Ensemble  | 8       |
| MUS-PRV—Performance Studies   | 20      |
| MUS-PRV 4—400-level Performance Studies   | 8       |

## MUSIC

| Bowed Strings Option   |            |
|--|------------|
| MUS 366 Instrumental Conducting                              | 1          |
| MUS 457 Major Instrument Literature                          | 2          |
| MUS 463 Major Instrument Pedagogy I                          | 2          |
| MUS-ENS 127, 327 Chamber Music or Small Ensemble—3 semesters | 3          |
| Upper-division electives to total 40 credits                 | 0-9        |
| Electives to total 128 credits                               | 1-9        |
| <b>Total</b>   | <b>128</b> |
| Piano Option   |            |
| MUS 457 Major Instrument Literature                          | 2          |
| MUS 463, 464 Major Instrument Pedagogy I and II              | 4          |
| MUS-ENS 127, 327 Chamber Music or Small Ensemble—3 semesters | 3          |
| Upper-division electives to total 40 credits                 | 0-9        |
| Electives to total 128 credits                               | 1-6        |
| <b>Total</b>   | <b>128</b> |
| Voice Option   |            |
| Second semester of a foreign language                        | 4          |
| MUS 328 Advanced Piano and Accompanying                      | 1          |
| MUS 457 Major Instrument Literature                          | 2          |
| MUS 463, 464 Major Instrument Pedagogy I and II              | 4          |
| MUS 465, 466 Diction for Singers I and II                    | 4          |
| Upper-division electives to total 40 credits                 | 1-4        |
| <b>Total</b>   | <b>128</b> |
| Wind/Brass/Percussion Option                                 |            |
| MUS 366 Instrumental Conducting                              | 1          |
| MUS 440 Major Instrument Literature/Pedagogy                 | 2          |
| MUS-ENS 127, 327 Chamber Music or Small Ensemble—3 semesters | 3          |
| Upper-division electives to total 40 credits                 | 0-11       |
| Electives to total 128 credits                               | 1-8        |
| <b>Total</b>   | <b>128</b> |

| Composition<br>Bachelor of Music  |                |
|---|----------------|
| <i>Course Number and Title</i>  | <i>Credits</i> |
| University Foundations requirements indicated in bold. See page 48 for details and lists of approved courses. |                |
| <b>UF</b> 100 Foundations of Intellectual Life  | 3              |
| <b>UF</b> 200 Foundations of Ethics and Diversity   | 3              |
| <b>FW</b> ENGL 101 Writing and Rhetoric I   | 3              |
| <b>FW</b> ENGL 102 Writing and Rhetoric II  | 3              |
| <b>FC</b> Foundations of Oral Communication   | 3              |
| <b>FM</b> Foundations of Mathematics course   | 3-4            |
| <b>FN</b> Foundations of Natural, Physical, & Applied Sciences course with lab                                | 4              |
| <b>FN</b> Foundations of Natural, Physical, & Applied Sciences course in a second field                       | 3-4            |
| <b>FA</b> Foundations of Arts course  | 3              |
| <b>FH</b> Foundations of Humanities course  | 3-4            |
| <b>FS</b> Foundations of Social Sciences course   | 3              |
| <b>FS</b> Foundations of Social Sciences course in a second field   | 3              |
| MUS 101 Survey of Western Art Music   | 2              |
| MUS 119, 120, 219, 220 Materials of Music   | 12             |
| MUS 121, 122, 221, 222 Ear Training   | 4              |
| MUS 208 Music Technology  | 2              |
| MUS 261 Basic Conducting  | 1              |
| MUS 312 Introduction to Computer Music  | 3              |
| MUS 324 Orchestration   | 2              |
| MUS 351, 352, 353 Music History and Literature  | 9              |
| MUS 365 Choral Conducting   | 1              |
| MUS 366 Instrumental Conducting   | 1              |
| MUS 410 Advanced Form and Analysis  | 3              |
| MUS 424 Counterpoint Since 1600   | 2              |
| MUS-APL 10 Concert Class (8 semesters of Pass grade)  | 0              |
| MUS-APL 108, 109 Class Piano  | 2              |
| <b>FF</b> MUS-APL 447 Senior Composition Recital  | 2              |
| MUS-ENS—Major Ensemble  | 8              |
| MUS-PRV—Lower-division major Performance Studies  | 8              |
| MUS-PRV 181 Composition Lessons (two (2) semesters)   | 2              |
| MUS-PRV 282 Composition Lessons (two (2) semesters)   | 4              |
| MUS-PRV 382 or 482 Composition Lessons (must study for at least one (1) semester at the MUS-PRV 400-level)    | 8              |
| MUS-PRV—Lower-division minor Performance Studies (Piano, unless major instrument is Keyboard)                 | 4              |
| MUS-PRV 3—300-level Performance Studies   | 4              |
| Upper-division music courses  | 3              |
| Electives to total 128 credits  | 5-8            |
| <b>Total</b>  | <b>128</b>     |

The music education program is designed to assist the student in developing the knowledge, skills, and dispositions essential for success in teaching music education in the elementary and secondary schools. The coursework combines content knowledge, theories of learning, study of curriculum and methodology. The program is grounded in the conceptual framework of the professional educator, one who adjusts his or her teaching approaches and learning environments to the needs and backgrounds of the students. Students who

complete the music education program demonstrate evidence of meeting the Idaho Beginning Teacher Standards and are eligible for K-12 state certification. Free music electives described in the Music Education degree box below must have prior written approval by the music education committee to be filed in the student folder in the Music Department and copied to the Registrar's Office.

| Music Education Bachelor of Music  |                |
|--|----------------|
| <i>Course Number and Title</i>   | <i>Credits</i> |
| University Foundations requirements indicated in bold. See page 48 for details and lists of approved courses.  |                |
| <b>UF 100</b> Foundations of Intellectual Life   | 3              |
| <b>UF 200</b> Foundations of Ethics and Diversity  | 3              |
| <b>FW ENGL 101</b> Writing and Rhetoric I  | 3              |
| <b>FW ENGL 102</b> Writing and Rhetoric II   | 3              |
| <b>FC</b> Foundations of Oral Communication  | 3              |
| <b>FM</b> Foundations of Mathematics course  | 3-4            |
| <b>FN</b> Foundations of Natural, Physical, & Applied Sciences course with lab   | 4              |
| <b>FN</b> Foundations of Natural, Physical, & Applied Sciences course in a second field  | 3-4            |
| <b>FA</b> Foundations of Arts course   | 3              |
| <b>FH</b> Foundations of Humanities course   | 3-4            |
| <b>FS ED-CIFS 201</b> Education, Schooling, and Society  | 3              |
| <b>FS</b> Foundations of Social Sciences course in a second field  | 3              |
| ED-CIFS 301* Teaching: Experience I  | 1              |
| ED-CIFS 302* Learning and Instruction  | 4              |
| ED-ESP 350* Teaching Students with Exceptional Needs at the Secondary Level  | 3              |
| *You must apply for admission to secondary teacher education to enroll in these upper-division education courses. Completion of all requirements for graduation with a secondary education option may require more than 120 credit hours. See Department of Curriculum, Instruction and Foundational Studies for more information. |                |
| MUS 101 Survey of Western Art Music  | 2              |
| MUS 119, 120, 219, 220 Materials of Music  | 12             |
| MUS 121, 122, 221, 222 Ear Training  | 4              |
| MUS 208 Music Technology (see Music Education Emphasis Additional Requirements for explanation of this requirement. )  | 2              |
| MUS 230 Foundations of Music Education   | 2              |
| MUS 256 Vocal Techniques and Methods or MUS 463 Major Instrument Pedagogy I (if a vocal major)   | 2              |
| MUS 257 String Instrument Techniques and Methods   | 2              |
| MUS 261 Basic Conducting   | 1              |
| MUS 266 Woodwind Instrument Techniques and Methods   | 2              |
| MUS 352 Music History and Literature II  | 3              |
| MUS 353 Music History and Literature III   | 3              |
| MUS 365 Choral Conducting  | 1              |
| MUS 366 Instrumental Conducting  | 1              |
| MUS 368 Percussion Instrument Techniques and Methods   | 2              |
| MUS 369 Brass Instrument Techniques and Methods  | 2              |
| MUS 372 Teaching Music in the Elementary Classroom   | 2              |
| MUS 375 Rehearsal Practicum Choral   | 1              |
| MUS 376 Rehearsal Practicum Instrumental   | 1              |
| MUS 385 Choral Methods and Materials   | 2              |

|  |         |
|--|---------|
| MUS 387 Band and Orchestra Methods and Materials   | 2       |
| Choose two (2) of the three (3) Professional Year classes below:<br>MUS 481* Pro Year: Elementary Teaching Exp III Dual Option<br>MUS 482* Pro Year: Jr High Teaching Exp IV Dual Option<br>MUS 483* Pro Year: Sr High Teaching Exp IV Dual Option<br>*You must apply for admission to secondary teacher education to enroll in these upper-division music courses.  | 12      |
| <b>FF</b> MUS 484 Professional Year Seminar in Music Education   | 2       |
| MUS-APL 10 Concert Class (7 semesters of Pass grade)   | 0       |
| MUS-APL 108, 109 Class Piano   | 2       |
| MUS-APL 444 Senior Music Education Recital   | 1       |
| MUS-ENS—Major Ensemble   | 7       |
| MUS-PRV—Major instrument Performance Studies (4 credits minimum at 300-level or above)   | 14      |
| Electives chosen from:<br>MUS 231 Marching Band Techniques and Methods (Required for wind/brass/percussion majors)<br>MUS 323 Choral Arranging<br>MUS 324 Orchestration (Required for string/wind/brass/percussion majors)<br>MUS 327 Jazz Techniques<br>MUS 328 Advanced Piano and Accompanying (Required for vocal majors)<br>MUS 351 Music History and Literature I<br>MUS 370 Guitar for Classroom Teachers<br>MUS 454 Secondary General Music Methods<br>MUS 463 Major Instrument Pedagogy I: String<br>MUS 465 Diction for Singers I<br>or 1-2 credits of other free music electives with prior written approval by the Music Education Committee.<br>Marching Band Tech and Orchestration are required for wind/brass percussion students.<br>Orchestration is required for string students. They may also petition 1 credit outside of this list to the music education committee.<br>Advanced Piano is required for vocal students. They may also petition 1-2 credits outside of this list to the music education committee.<br>Pianists must choose one class from this list. They may also petition 1-2 credits outside of this list to the music education committee. | 3       |
| <b>Total</b>   | 133-137 |
| The above requirements lead to state certification eligibility to teach music in the public schools. Specific details are available from the Music Department.   |         |

| Music Bachelor of Arts  |                |
|---|----------------|
| <i>Course Number and Title</i>  | <i>Credits</i> |
| University Foundations requirements indicated in bold. See page 48 for details and lists of approved courses. |                |
| <b>UF 100</b> Foundations of Intellectual Life  | 3              |
| <b>UF 200</b> Foundations of Ethics and Diversity   | 3              |
| <b>FW ENGL 101</b> Writing and Rhetoric I   | 3              |
| <b>FW ENGL 102</b> Writing and Rhetoric II  | 3              |
| <b>FC</b> Foundations of Oral Communication   | 3              |
| <b>FM</b> Foundations of Mathematics course   | 3-4            |
| <b>FN</b> Foundations of Natural, Physical, & Applied Sciences course with lab                                | 4              |
| <b>FN</b> Foundations of Natural, Physical, & Applied Sciences course in a second field                       | 3-4            |
| <b>FA</b> Foundations of Arts course  | 3              |
| <b>FH</b> Foundations of Humanities course  | 3-4            |
| <b>FS</b> Foundations of Social Sciences course   | 3              |
| <b>FS</b> Foundations of Social Sciences course in a second field   | 3              |
| MUS 101 Survey of Western Art Music   | 2              |

## MUSIC

|  |       |
|--|-------|
| MUS 119, 120, 219, 220 Materials of Music  | 12    |
| MUS 121, 122 221, 222 Ear Training   | 4     |
| MUS 351 or MUS 353 History and Literature of Music   | 3     |
| MUS 352 History and Literature of Music II   | 3     |
| MUS-APL 10 Concert Class (8 semesters of Pass grade)   | 0     |
| MUS-APL 108, 109 Class Piano   | 2     |
| <b>FF</b> MUS-APL 445 BA Senior Recital (see course description for details) or<br><b>FF</b> MUS-APL 448 BA Senior Project (independent study terminal project under faculty supervision and with the approval of the department chair in the areas of music theory, music history/literature, or music education. See course description for details. ) | 1     |
| MUS-ENS—Major Ensemble   | 4     |
| MUS-PRV—Performance Studies (Must study for at least one (1) semester at the MUS-PRV 200-level. )  | 4     |
| Performance, theory, music education, or music history courses to support Senior Recital or Senior Project   | 8     |
| Upper-division electives to total 40 credits   | 18-33 |
| Electives to total 120 credits   | 8-21  |
| Total  | 120   |

| Music Minor  |         |
|--|---------|
| Course Number and Title  | Credits |
| MUS-APL 10 Concert Class (2 semesters of Pass grade)                                   | 0       |
| MUS-ENS 1—100-level Major Ensemble courses   | 2-4     |
| MUSI 100 Introduction to Music   | 3       |
| MUS 119, 120 Materials of Music  | 6       |
| MUS 121, 122 Ear Training  | 2       |
| MUS-APL 108, 109 Class Piano   | 2       |
| MUS-PRV Major instrument Performance Studies, 100-level*                               | 2       |
| MUS-PRV Major instrument Performance Studies, 200-level*                               | 1       |
| Total  | 18-20   |
| *MUS-PRV courses are extra fee courses. Music minors must perform semester-end juries. |         |

### Course Offerings

#### MUS | MUSI—Music, General

##### Lower Division

**MUSI 100 INTRODUCTION TO MUSIC (3-0-3)(F, S, SU)(FA).** Open to all students, with no background assumed, this course will familiarize the listener with the variety of styles and genres of Western concert music through an historical approach. Attending at least two approved live concerts/recitals is required.

**MUS 101 SURVEY OF WESTERN ART MUSIC (2-1-2)(F/S).** A preliminary course designed to acquaint the first-year music major with music history (from the Middle Ages to the present), literature, materials, library, and listening skills, and writing about music. PREREQ: Music Major or Pre-Major Status.

**MUS 102 INTRODUCTION TO JAZZ (3-0-3)(F, S)(FA).** Develops listening skills, historical understanding, and general appreciation of jazz as an art form within its specifically American cultural heritage and context. Attendance at two live jazz performances is required. No previous musical background is necessary.

**MUS 103 ELEMENTS OF MUSIC THEORY AND EAR TRAINING (3-0-3)(S).** This introduction to music theory and ear training course is designed for incoming music majors with minimal music theory/ear training

background, as determined by the Music Literacy Predictive Exam given at the time of audition to the music program.

**MUS 105 INTRODUCTION TO POP/ROCK MUSIC (3-0-3)(F/S)(FA).** Survey of the history of rock and popular music from its beginnings in the nineteenth century to the present day.

**MUS 119 MATERIALS OF MUSIC I (3-0-3)(F).** Music fundamentals review: notation, intervals, scales and modes, triads, key signatures, etc.; melody and cadences. Emphasis is on aural and visual recognition, analysis and compositional skills involving the above. PREREQ: Music Major, Pre-Music Major or Music Minor status. COREQ: MUS 121 and MUS-APL 108.

**MUS 120 MATERIALS OF MUSIC II (3-0-3)(S).** 4-voice textures (linear and vertical); monophony; diatonic chords and harmonic relationships; cadences; inversions; dominant sevenths; aural and visual analysis; compositional skills. PREREQ: MUS 119 or equivalent and piano as per MUS 119; Music Major or Music Minor status. COREQ: MUS 122 and MUS-APL 109.

**MUS 121 EAR TRAINING I (0-2-1)(F).** Designed to correlate with Materials I. Emphasizes aural training in scales, intervals and rhythms. Includes drill in solfeggio and sight singing, leading to aural recognition of 3- and 4-part harmonic structures. PREREQ: Music Major, Pre-Music Major or Music Minor status. COREQ: MUS 119 and MUS-APL 108.

**MUS 122 EAR TRAINING II (0-2-1)(S).** Designed to correlate with Materials II. Emphasizes aural training in scales, intervals and rhythms. Includes drill in solfeggio and sight singing, leading to aural recognition of 3- and 4-part harmonic structures. PREREQ: Music Major or Music Minor status. COREQ: MUS 120 and MUS-APL 109.

**MUS 147 SURVEY OF OPERA AND MUSIC THEATRE (3-0-3)(F).** An historical survey of the development and growth of opera and music theatre through chronological study of scores, recordings, sound filmstrips, and library resource materials from the beginning of the Baroque period to contemporary modern opera and music theatre compositions.

**MUS 208 MUSIC TECHNOLOGY (1-3-2)(S).** Develops essential basic skills and technology in the field of music. Students will become familiar with music software including educational, sequencing and notational software; will use word processing, database applications, spreadsheet programs, and graphics to produce sample classroom materials; and will learn sound reinforcement, recording technology, MIDI applications and programs, and CD-ROM applications.

**MUS 219 MATERIALS OF MUSIC III (3-0-3)(F).** Continuation of 4-part textures. Diatonic sevenths; secondary dominants and introduction to altered chords, augmented sixth and Neapolitan chords; modulations; compositional skills involving the above. PREREQ: MUS 120 or equivalent and piano per MUS 119.

**MUS 220 MATERIALS OF MUSIC IV (3-0-3)(S).** Continuation of 4-part textures. Eleventh and thirteenth chords; twentieth-century melody and harmony; atonality and serial techniques. Compositional skills involving the above. PREREQ: MUS 219 or equivalent and piano per MUS 119.

**MUS 221 EAR TRAINING III (0-2-1)(F).** Continuation of Ear Training II: more advanced sight-singing, melodic, harmonic and rhythmic dictation with more advanced rhythms in 2-4 voices. PREREQ: MUS 120, MUS 122, MUS-APL 109.

**MUS 222 EAR TRAINING IV (0-2-1)(S).** Continuation of Ear Training III: more advanced sight-singing (including highly chromatic melodies), and more advanced melodic, harmonic and rhythmic dictation in 2-4 voices. PREREQ: MUS 219, MUS 221, MUS-APL 109.

**MUS 230 FOUNDATIONS OF MUSIC EDUCATION (2-1-2)(S).** Introduction to the fundamentals of music education and teaching techniques for music at all levels. Includes observations of various school music programs. Lab period devoted to visitation in public schools. PREREQ: MUS 120, MUS 122, and Music Education major status.



**MUS 231 MARCHING BAND TECHNIQUES AND METHODS (1-1-1)(F).** Intended for music education majors. Survey of methods and materials necessary for the organization, administration, and instruction of public school marching bands. Required for all wind, brass and percussion music education majors. COREQ: MUS-ENS 121 or MUS-ENS 321.

**MUS 256 VOCAL TECHNIQUES AND METHODS (1-2-2)(S).** Primarily for Music Education majors, this course deals with teaching skills to help develop the vocal potentials of young students, describing basic physical components of the voice and their coordination, understanding the young and “changing” voice, and learning phonetic components of Latin, Italian, and German. PREREQ: Music Education major status.

**MUS 257 STRING INSTRUMENT TECHNIQUES AND METHODS (1-2-2)(S).** Primarily for Music Education majors, this course deals with methods and materials of string-class teaching in the public schools, while providing the student with a basic performing technique on two or more of the orchestral string instruments: violin, viola, cello, and string bass. PREREQ: Music Education major status.

**MUS 261 BASIC CONDUCTING (0-2-1)(S).** Fundamental techniques of conducting: baton fundamentals, group rehearsal techniques, and simple score reading. PREREQ: MUS 120 and MUS 122.

**MUS 266 WOODWIND INSTRUMENT TECHNIQUES AND METHODS (1-2-2)(F).** Primarily for Music Education majors, this course deals with methods and materials of teaching woodwind instruments in the public schools, while providing the student with a basic performing technique on two or more woodwind instruments. PREREQ: Music Education major status.

#### Upper Division

**MUS 312 INTRODUCTION TO COMPUTER MUSIC (3-0-3)(F)(Offered odd years).** Sound processing techniques for computer-based composition. Study of important works of electronic music, create original compositions, techniques of digital sound synthesis, analysis-synthesis, granular synthesis and algorithmic composition. PREREQ: MUS 220 or PERM/INST.

**MUS 323 CHORAL ARRANGING (2-0-2)(S).** Designed to give music education students experiences in arranging music for a variety of choral ensembles. PREREQ: MUS 220.

**MUS 324 ORCHESTRATION (2-0-2)(S).** Primarily for music majors. A study of scoring, notation, and arranging for brass, woodwind, percussion, and stringed instruments, and of their textures and uses in various combinations. PREREQ: MUS 220.

**MUS 327 JAZZ TECHNIQUES (1-1-1)(F)(Odd years).** Intended for music education majors. Covers lead instrumental and vocal jazz ensembles in the public schools through the study of rehearsal planning and procedures, jazz articulations and styles, as well as the materials and methods for teaching improvisation.

**MUS 328 ADVANCED PIANO AND ACCOMPANYING (1-1-1)(S).** Choral accompaniments and choral parts, as well as accompaniments, for art songs and folk songs using both printed notation and chord symbols. PREREQ: MUS-APL 108,109 or PERM/INST.

**MUS 331 AMERICAN MUSICAL THEATRE (3-0-3)(F/S).** An historical overview will be presented along with a look at behind-the-scenes work necessary in the presentation of musical theatre productions. Includes an in-depth look at all the responsibilities of the entire production crew, from promotion and box office to stage crews, and from make-up crews to cast.

**MUS 332 MUSICAL THEATRE PRODUCTIONS (0-10-4)(S).** Specific apprenticeships in the operations of actual musical theatre productions will be given to gain experience in the practical application of knowledge learned in MUS 331. May be repeated two times for credit. (Pass/Fail.) PREREQ: MUS 331, PERM/INST.

**MUS 351 MUSIC HISTORY AND LITERATURE I (3-0-3)(S).** The analysis of the development of Western art music from early Christian times through the

early baroque era. Consideration of music from these periods as artistic entities, their relationships to their contemporary societies, and as foundations for subsequent expressions. PREREQ: MUS 219.

**MUS 352 MUSIC HISTORY AND LITERATURE II (3-0-3)(F).** Encompasses the periods from the mid-baroque through the early 19<sup>th</sup> century. Attention to the changes in music forms and genres through listening, score-reading, analysis and discussion. PREREQ: MUS 219.

**MUS 353 MUSIC HISTORY AND LITERATURE III (3-0-3)(S).** Encompasses the music of the mid-19<sup>th</sup> century to the present. Attention to the changes in musical styles and aesthetics through listening, score-reading, analysis and discussion. PREREQ: MUS 220 and MUS 352.

**MUS 365 CHORAL CONDUCTING (0-2-1)(F).** A course designed to deal with the problems and techniques of choral conducting. Students will work with ensemble groups as laboratories for conducting experience. PREREQ: MUS 261 or PERM/INST.

**MUS 366 INSTRUMENTAL CONDUCTING (0-2-1)(S).** A course designed to deal with the problems of instrumental conducting. Includes baton technique and score reading. Students will work with ensembles as laboratories for conducting experience. PREREQ: MUS 261.

**MUS 367 CHORAL LITERATURE (2-0-2)(F/S).** Survey of choral works from all time periods. Though secular works are discussed, special emphasis is placed on tracing the development of the Mass, Motet and Requiem throughout history. Strategies for teaching and performing these works. Special projects cover programming for elementary, secondary and collegiate choirs.

**MUS 368 PERCUSSION INSTRUMENT TECHNIQUES AND METHODS (1-2-2)(S).** Primarily for Music Education majors, this course deals with methods and materials of teaching percussion instruments in the public schools, while providing the student with basic performing techniques on percussion. PREREQ: Music Education major status.

**MUS 369 BRASS INSTRUMENT TECHNIQUES AND METHODS (1-2-2)(F).** Primarily for Music Education majors, this course deals with methods and materials of teaching brass instruments in the public schools, while providing the student with a basic performing technique on two or more brass instruments. PREREQ: Music Education major status.

**MUS 370 GUITAR FOR CLASSROOM TEACHERS (2-0-2)(S)(Odd years).** Designed for teachers or prospective teachers who wish to use the guitar in classroom situations. Emphasis is on accompaniment skills, elementary chord theory, and proper hand position. Musical material is drawn from popular and folk styles useful in elementary classes. May be repeated once for credit.

**MUS 372 TEACHING MUSIC IN THE ELEMENTARY CLASSROOM (2-2-2)(F).** For music majors. Includes special methods, materials and teaching techniques for the elementary classroom music program. Lab period devoted to teaching in public schools. PREREQ: MUS 230 and successful completion of Music Education Interview.

**MUS 374 MUSIC FUNDAMENTALS AND METHODS FOR THE ELEMENTARY CLASSROOM TEACHER (3-0-3)(F/S).** Course prepares future elementary and special education teachers in awareness, skills, theories, and practices in K-8 general music education. Students will demonstrate skills and mastery with general music materials, facility in music reading, conducting, and playing of classroom instruments, and will design, teach, and assess music lessons.

**MUS 375 REHEARSAL PRACTICUM CHORAL (0-1-1)(F).** Provides the music education major with the skills necessary for rehearsal planning, score preparation, rehearsal techniques, and choice of appropriate literature for public school choral music programs. Significant time will be devoted to in-class rehearsals with students as conductors. PREREQ: MUS 261; COREQ: MUS 365 or PERM/INST.

**MUS 376 REHEARSAL PRACTICUM INSTRUMENTAL (0-1-1)(S).** Provides the music education major with the skills necessary for rehearsal planning, score preparation, rehearsal techniques, and choice of appropriate

## MUSIC

literature for public school instrumental music programs. Significant time will be devoted to in class rehearsals with students as conductors. PREREQ: MUS 261; COREQ: MUS 366 or PERM/INST.

**MUS 385 CHORAL METHODS AND MATERIALS (2-2-2)(S).** Designed for music education majors who will be teaching vocal groups in junior and/or senior high schools. A practical workshop in selection and conducting of choral materials, rehearsal techniques, use of small ensembles, planning and organization of vocal groups. Lab period devoted to teaching in public schools. PREREQ: MUS 230 and successful completion of Music Education Interview.

**MUS 387 BAND AND ORCHESTRA METHODS AND MATERIALS (2-2-2)(F).** The study of the organization and administration of bands and orchestras at the secondary school level, including equipment purchasing, budgets, public relations, planning, rehearsal techniques, scheduling, programming, and emergency repairs of instruments. Lab period devoted to teaching in public schools. PREREQ: MUS 230, MUS 257, MUS 266, MUS 368, MUS 369 and successful completion of Music Education Interview.

**MUS 402 SURVEY OF JAZZ (3-0-3)(S).** Explores interpretation of America's original musical art form through listening and through discussion of socio-cultural contexts of jazz. Survey covers stylistic influences of nineteenth-century Africa and Western Europe through current living exponents of jazz. PREREQ: MUSI 100.

**MUS 404 SURVEY OF MUSIC OF WORLD CULTURES (3-0-3)(S) (Alternate years).** Musical traditions beyond the scope of Western art music. PREREQ: Grade of B or better in MUS 353, and upper-division status in music; or PERM/INST.

**MUS 410 ADVANCED FORM AND ANALYSIS (3-0-3)(F/S).** Analysis of harmonic and formal structures of the larger binary and ternary forms; the sonata, the symphony, the concerto, Baroque forms. PREREQ: MUS 220.

**MUS 424 COUNTERPOINT SINCE 1600 (2-0-2)(F).** Study and writing in contrapuntal styles from Baroque period to present day. Invertible counterpoint, canon, fugue, invention, and analysis of procedures in representative works. Additional compositions and/or research for graduate credit. PREREQ: MUS 220.

**MUS 440 MAJOR INSTRUMENT LITERATURE/PEDAGOGY (2-0-2)(F, S).** Survey of important literature and comparative study of pedagogical materials, principles and procedures for the major instrument. Reading, lecture, listening, and observation in teaching studios. PREREQ: Upper-division standing in performance.

**MUS 454 SECONDARY GENERAL MUSIC METHODS (2-0-2)(S)(Even years).** Methods and materials emphasizing the development of discriminating listening skills, expressive singing, reading and notating music, creating music, and understanding music's role in contemporary society.

**MUS 457 MAJOR INSTRUMENT LITERATURE (2-0-2)(F/S)(Alternate years with MUS 463/464).** A survey of important literature written for the major instrument. PREREQ: Upper-division standing in performance.

**MUS 463 MAJOR INSTRUMENT PEDAGOGY I (2-0-2)(F).** A survey and comparative study of pedagogical materials, principles and procedures. The course will consist of reading, lecture, listening, and observation in teaching studios. PREREQ: Upper-division standing in performance.

**MUS 464 MAJOR INSTRUMENT PEDAGOGY II (2-0-2)(S)(Alternate years).** Practical application of pedagogical methods and procedures through supervised studio teaching. Further reading, lecture, listening, and discussion involving pedagogical techniques. PREREQ: MUS 463.

**MUS 465 DICTION FOR SINGERS I (2-0-2)(F)(Odd years).** A course designed for singers, devoted to the understanding of the International Phonetic Alphabet (IPA) system and the learning of the rules of pronunciation in Italian, Latin, and Spanish languages. Graduate students will additionally transcribe an entire song cycle or the songs of a proposed graduation recital. Required for all vocal performance majors and Master of Music vocal performance majors and strongly recommended for all voice emphasis majors. PREREQ: One year of MUS-PRV voice performance studies.

**MUS 466 DICTION FOR SINGERS II (2-0-2)(S)(Even years).** A continuation of MUS 465 Diction for Singers I, with emphasis on German, French, and English languages. Graduate students will additionally transcribe an entire song cycle or the songs of a proposed graduation recital. Required for all vocal performance majors and Master of Music vocal performance majors and strongly recommended for all voice emphasis majors. PREREQ: MUS 465 or PERM/INST.

**MUS 481 PROFESSIONAL YEAR—ELEMENTARY TEACHING EXPERIENCE III DUAL OPTION (0-15-6)(F, S).** Supervised student teaching in an elementary school. Student will be placed with a master teacher in music for one half-semester (full-time) in music under the supervision of university faculty. Attendance at seminars is required. (Pass/Fail. ) PREREQ: PERM/INST. COREQ: MUS 482 or MUS 483.

**MUS 482 PROFESSIONAL YEAR—JUNIOR HIGH TEACHING EXPERIENCE IV DUAL OPTION (0-15-6)(F, S).** Supervised student teaching in a junior high school. Student will be placed with a master teacher in music for one half-semester (full-time) in music under the supervision of university faculty. Attendance at seminars is required. (Pass/Fail. ) PREREQ: PERM/INST. COREQ: MUS 481 or MUS 483.

**MUS 483 PROFESSIONAL YEAR—SENIOR HIGH TEACHING EXPERIENCE IV DUAL OPTION (0-15-6)(F, S).** Supervised student teaching in a senior high school. Student will be placed with a master teacher in music for one half-semester (full-time) in music under the supervision of university faculty. Attendance at seminars is required. (Pass/Fail. ) PREREQ: PERM/INST. COREQ: MUS 481 or MUS 482.

**MUS 484 PROFESSIONAL YEAR SEMINAR IN MUSIC EDUCATION (0-2-2)(F/S)(FF).** This course is part of the professional year culminating experience. It is designed to allow students to synthesize knowledge and skills gained throughout academic coursework concurrently with application and professional engagement in the field during student teaching. PREREQ: Admission to Professional Year. COREQ: MUS 481.

**MUS 498 MUSIC SEMINAR (2-0-2)(F/S).** A seminar project under faculty direction. PREREQ: Senior standing.

### MUS-APL—Music Applied Performance Classes, Recitals Lower Division

**MUS-APL 010 CONCERT CLASS (0-1-0)(F/S).** Student, guest, and/or faculty performances. Class meets weekly. Additional attendance at concerts outside of class is also a class requirement. (Pass/Fail. )

**MUS-APL 102 OBOE REED MAKING (1-0-1)(F).** Oboe reed making, from gouging tube cane through finishing, for oboists. May be repeated for credit. COREQ: 2- or 4-credit oboe lessons or PERM/INST.

**MUS-APL 108 CLASS PIANO I (1-1-1)(F).** Introduction to the piano keyboard, major and minor five-finger patterns, introduction to major and minor scales and arpeggios, cadence patterns and harmonization with primary chords, elementary-level repertoire studies, basic left-hand and two-hand accompaniments, creative improvisation, transposition, and sight-reading. PREREQ: Music Major. COREQ: MUS 119 and MUS 121.

**MUS-APL 109 CLASS PIANO II (1-1-1)(S).** Continuation of piano skills introduced in MUS-APL 108. Major and minor scales and arpeggios, cadence patterns and harmonization with primary and secondary chords, intermediate-level repertoire studies, left-hand and two-hand accompaniment patterns, melodic and harmonic improvisation, transposition, and sight-reading. PREREQ: Music Major, MUS-APL 108 or PERM/INST. COREQ: MUS 120 and MUS 122.

**MUS-APL 129 JAZZ IMPROVISATION I (1-1-1)(F/S).** This performance-oriented course deals with the fundamentals of jazz theory and its application in improvisation. These principles will be studied through transcription and analysis of seminal jazz recordings and applied to selected exercises and standard jazz repertoire. Students should possess above-average technical facility on their instrument, have a working knowledge of music theory, and be proficient in aural skills. May be repeated once for credit. PREREQ: MUS 119 or PERM/INST.

**MUS-APL 150 BEGINNING PIANO CLASS (0-1-1)(F/S).** For non-music majors who have had little or no previous instruction in piano playing. May be taken a maximum of two times for credit.

**MUS-APL 180 BEGINNING VOICE CLASS (0-1-1)(F/S).** This course is intended for students who have had little or no previous instruction in singing. May be taken for a maximum of two times for credit.

**MUS-APL 229 JAZZ IMPROVISATION II (1-1-1)(F/S).** This second level and continuation of Jazz Improvisation I deals with more advanced harmonic, formal, and improvisational concepts. These principles will be studied primarily through transcription and analysis of seminal jazz recordings. Students will learn advanced jazz repertoire as well as non-traditional methods of organizing improvisation. May be repeated once for credit. PREREQ: MUS-APL 129 or PERM/INST.

#### Upper Division

**MUS-APL 302 OBOE REED MAKING (1-0-1)(F).** Oboe reed making, from gouging tube cane through finishing, for oboists. May be repeated for credit. COREQ: 2- or 4-credit oboe lessons or PERM/INST.

**MUS-APL 329 JAZZ IMPROVISATION III (0-1-2)(F/S).** Private lessons in Jazz Improvisation. Students will develop their individual voices as jazz improvisers through intensive study of seminal recordings, performance of jazz repertoire, and analysis of their own recorded improvisations. Extra fee, nonwaivable, per private lesson fee schedule, required. May be repeated once for credit. PREREQ: MUS-APL 229 or PERM/INST.

**MUS-APL 345 JUNIOR PERFORMANCE RECITAL (0-V-2)(F, S).** Solo recital given prior to the required senior solo recital at any time subsequent to the freshman year. (Pass/Fail.) COREQ: Enrollment in MUS-PRV 300-level lessons and PERM/INST.

**MUS-APL 429 JAZZ IMPROVISATION IV (0-1-2)(F/S).** Private lessons in Jazz Improvisation. Students will develop their individual voices as jazz improvisers through intensive study of seminal recordings, performance of jazz repertoire, and analysis of their own recorded improvisations. Extra fee, nonwaivable, per private lesson fee schedule, required. May be repeated once for credit. PREREQ: MUS-APL 329 or PERM/INST.

**MUS-APL 444 SENIOR MUSIC EDUCATION RECITAL (0-V-1)(F, S).** This course is a one-half recital to be presented as the culminating performance project for Music Education majors. (Pass/Fail.) PREREQ: 300-level performance ability and PERM/INST. COREQ: MUS-PRV 300 series course or higher.

**MUS-APL 445 SENIOR BACHELOR OF ARTS RECITAL (0-V-1)(F, S) (FF).** This course is a one-half recital to be presented as the culminating performance project for bachelor of arts music majors emphasizing performance. (Pass/Fail.) PREREQ: 300-level performance ability and PERM/INST. COREQ: MUS-PRV 300 series course or higher.

**MUS-APL 446 SENIOR PERFORMANCE RECITAL (0-V-2)(F, S)(FF).** This course is a full recital to be presented as the culminating project for performance emphasis majors within the bachelor of music program. (Pass/Fail.) PREREQ: 400-level performance ability and PERM/INST. COREQ: MUS-PRV 400 series course.

**MUS-APL 447 SENIOR COMPOSITION RECITAL (0-V-2)(F, S, SU)(FF).** A recital for the performance of original compositions by the composition major. Students must make their own arrangements with personnel required for the recital. Required of composition majors. (Pass/Fail.) PREREQ: Major in composition and PERM/INST. COREQ: MUS-PRV 400 series course.

**MUS-APL 448 SENIOR BACHELOR OF ARTS PROJECT (0-V-1)(F, S) (FF).** This course will be an independent study project designed by the student. The culminating project should reflect the area of study and interests of the student in the Bachelor of Arts, Music major in lieu of the senior recital. PREREQ: PERM/INST.

**MUS-APL 449 SENIOR BACHELOR OF ARTS MUSIC/BUSINESS PROJECT (0-V-1)(F, S)(FF).** This course will be an independent study project

designed by the student. Students will create, design, organize, execute, and produce evidence of a project that combines the elements and conventions associated with music and business scholarship. PREREQ: PERM/INST.

#### MUS-ENS—Music, Ensemble

All MUS-ENS Courses may be repeated for credit.

**MUS-ENS 101, 301 UNIVERSITY SINGERS (0-3-1)(F, S, SU).** A general chorus open to all university students. No audition is necessary. Major choral works from all periods will be sung. Public performance(s) will be expected each semester. May be repeated for credit.

**MUS-ENS 105, 305 MEISTERSINGERS (0-5-1)(F, S).** Essentially a course in unaccompanied singing, open to all university students. The Meistersingers is the concert-touring select choir of the university. May be repeated for credit. PREREQ: Enrollment by audition and Music Department approval.

**MUS-ENS 111, 311 VOCAL JAZZ CHOIR (0-3-1)(F, S).** Designed to promote participation in and repertoire knowledge of literature for vocal jazz choirs. Public performance given each semester. May be repeated for credit. PREREQ: PERM/INST.

**MUS-ENS 112, 312 VOX ANGELIS (0-3-1)(F/S).** Designed for treble-voice singers who are interested in performing a wide repertoire of music composed for treble voices. Enrollment is open to all university treble-voice singers. Public performance(s) will be expected each semester. May be repeated for credit.

**MUS-ENS 113, 313 MEN'S CHORUS (0-3-1)(F/S).** Open to all male singers, the Men's Chorus performs a broad variety of choral music written for a men's chorus. Public performances are given each semester. May be repeated for credit.

**MUS-ENS 115, 315 OPERA THEATRE (0-V-1)(F, S, SU).** A course in the study and production of operas. May be repeated for credit. PREREQ: PERM/INST.

**MUS-ENS 120, 320 SYMPHONIC WINDS (0-5-1)(F, S).** The Symphonic Winds is the select concert band of the university. May be repeated for credit. PREREQ: Audition and/or PERM/INST.

**MUS-ENS 121, 321 MARCHING BAND (0-V-1)(F).** Designed to promote participation in, and repertoire knowledge of literature for marching bands. The marching band performs at all home and at least one away football game and occasionally at other university or civic events. Open to all students with the approval of the director. Graduate music students will be expected to assume leadership roles or will be assigned extra duties within the band and/or its organization. May be repeated for credit.

**MUS-ENS 122, 322 ALL-CAMPUS CONCERT BAND (0-3-1)(F, S).** Open to all students and community members who are able to play a band instrument. May be repeated for credit.

**MUS-ENS 123, 323 PEP BAND (0-V-1)(S).** Designed to promote participation in and repertoire knowledge for athletic and promotional bands. Regular public performances are required at Boise State athletic events and university and community functions. May be repeated for credit. PREREQ: MUS-ENS 121/321 with an audition and/or PERM/INST.

**MUS-ENS 124, 324 WINTER DRUMLINE AND COLOR GUARD (0-V-1)(S).** Designed to promote participation in and knowledge of techniques specific to marching percussion. The winter drumline performs at several home basketball games and occasionally at other university or civic events. May be repeated for credit. PREREQ: PERM/INST.

**MUS-ENS 126, 326 JAZZ ENSEMBLE (0-4-1)(F, S).** A modern jazz ensemble consisting of 17-20 instrumental musicians. Performance styles include traditional jazz, bebop, fusion, Latin, and avant-garde, with a strong focus on the most significant composers of the genre as well as student compositions and arrangements. This ensemble will perform publicly each semester both on and off campus. May be repeated for credit. PREREQ: PERM/INST.

**MUS-ENS 127, 327 CHAMBER MUSIC (0-2-1)(F, S).** Designed to promote playing in and increasing knowledge of repertoire of chamber music. A public

## MUSIC

performance is required each semester. May be repeated for credit. PREREQ: PERM/INST.

**MUS-ENS 140, 340 PERCUSSION ENSEMBLE (0-3-1)(F, S).** A course designed to promote playing in and repertoire knowledge of percussion ensembles. A public performance is required each semester. May be repeated for credit. PREREQ: PERM/INST.

**MUS-ENS 150, 350 ORCHESTRA (0-5-1)(F, S).** The Boise State University Symphony is composed of students and experienced musicians and prepares several concerts each season from the standard repertoire. An elective for non-music majors. Graduate music students will be expected to assume leadership roles or will be assigned extra duties within the orchestra and/or its organization. Audition is required for new students. May be repeated for credit.

**MUS-ENS 170, 370 TROMBONE CHOIR (0-1-1)(F, S).** Study and performance of music for trombone ensemble. Literature consists of original and transcribed works for multiple tenor and bass trombones. Public performances are given each semester. May be repeated for credit. PREREQ: PERM/INST.

**MUS-ENS 175, 375 TUBA-EUPHONIUM ENSEMBLE (0-1-1)(F, S).** Study and performance of music for tuba-euphonium ensemble. Literature consists of original and transcribed works for multiple euphoniums and tubas. Public performances are given each semester. May be repeated for credit. PREREQ: PERM/INST.

**MUS-ENS 180, 380 ACCOMPANYING (0-2-1)(F, S).** Practical experience in accompanying vocal and instrumental students. Open to keyboard students with sufficient technique. May be repeated for credit.

**MUS-ENS 185, 385 DUO-PIANO ENSEMBLE (0-2-1)(F, S).** A basic survey of duo-piano literature from the Baroque to the present. Students will learn how to cope with ensemble problems in rehearsal and performance. Class sessions will consist of performance, listening and discussion. A public performance will be presented. May be repeated for credit. PREREQ: PERM/INST.

### **MUS-PRV—Music-Private Lesson Performance Studies**

MUS-PRV courses carry an extra fee. For details, see Chapter 6—*Tuition and Fees* in this catalog.

Students enrolling in private lesson (MUS-PRV) studies must secure the consent of the instructor prior to registration.

Entering music majors will enroll initially in 100-level MUS-PRV private lesson studies; non-music majors must enroll in 100-level studies. Before permission is granted to any student to enroll in a higher level, the student must audition before a faculty jury to determine assignment to an appropriate level. Juries are held during exam week each semester. Students transferring into the Music Department as music majors from another institution or from another department within Boise State must audition for the music faculty, and the appropriate level will be determined at that time. Details in performance level requirements for each instrument and voice are available from the Music Department office. All MUS-PRV undergraduate courses may be repeated for credit (no limit).

Private Lesson Performance Studies Course Numbering System:

The three-digit course number conveys the following information: first digit (1, 2, etc. ) = performance level; second digit = instrumental family (-0- woodwinds, -1- brass, -2- percussion, -3- voice, -4- keyboard, -5- fretted string instruments, -6- bowed string instruments); third digit (-1, 2, 4) = credit value. Four-credit studies are reserved for performance emphasis majors in the bachelor of music program. Nonperformance majors may enroll for 4 credits only with permission of the instructor and the department chair. Suffix letters identify the particular instrument in each instrumental family: woodwinds: A flute, B oboe, C clarinet, D bassoon, E saxophone, F recorder; Brasses: A horn, B trumpet, C trombone, D tuba, E euphonium; Keyboard: A piano, B organ; Fretted stringed instruments: A guitar; Bowed string instruments: A violin, B viola, C cello, D string bass. The class schedule printed prior to each semester lists particular studio courses available for the semester.

Course numbers ending in 1: (0-.5-1)(F, S). For BA Music majors, BA Music/Business majors, Composition majors (secondary instrument/voice), Music major (secondary instrument/voice), Music minors, and Non-music majors.

Course numbers ending in 2: (0-1-2)(F, S). For Performance majors in their freshman year, Music Education majors, and Composition majors (primary instrument/voice).

Course numbers ending in 4: (0-1-4)(F, S). For Performance majors in their sophomore-senior years.

**MUS-PRV 101, 102, 104, 201, 202, 204, 301, 302, 304, 401, 402, 404 WOODWIND INSTRUMENTS.** Private lessons.

**MUS-PRV 111, 112, 114, 211, 212, 214, 311, 312, 314, 411, 412, 414 BRASS INSTRUMENTS.** Private lessons.

**MUS-PRV 121, 122, 124, 221, 222, 224, 321, 322, 324, 421, 422, 424 PERCUSSION INSTRUMENTS.** Private lessons.

**MUS-PRV 131, 132, 134, 231, 232, 234, 331, 332, 334, 431, 432, 434 VOICE.** Private lessons.

**MUS-PRV 141, 142, 144, 241, 242, 244, 341, 342, 344, 441, 442, 444 KEYBOARD INSTRUMENTS.** Private lessons.

**MUS-PRV 151, 152, 154, 251, 252, 254, 351, 352, 354 FRETTED STRING INSTRUMENTS.** Private lessons.

**MUS-PRV 161, 162, 164, 261, 262, 264, 361, 362, 364, 461, 462, 464 BOWED STRING INSTRUMENTS.** Private lessons.

**MUS-PRV 171 BEGINNING GUITAR CLASS (0-1-1)(F/S).** Technical fundamentals in playing acoustic guitar for beginners. Use of popular and folk songs. Course is based on written notation and aural instruction, emphasizing chord playing, correct posture, and holding positions. Course will be taught as a hybrid of both private and group instruction. Students must provide their own instrument. May be repeated once for credit.

**MUS-PRV 181, 282, 382, 482 COMPOSITION LESSONS.** Private lessons. Portfolio approval required prior to registration.

**MUS-PRV 191, 291, 391, 491 APPLIED JAZZ LESSONS (0-.5-1)(F/S).** Private lessons. PREREQ: PERM/INST.

# School of Nursing

College of Health Sciences

Norco Nursing and Health Sciences Building, Room 433

(208) 426-4143 (phone)

(208) 426-1370 (fax)

nursing@boisestate.edu (email)

<https://www.boisestate.edu/nursing/> (website)

*Divisional Dean, School of Nursing and Professor:* Ann Hubbert. *Associate Divisional Dean, School of Nursing and Clinical Associate Professor:* Shelle Poole. *Jody DeMeyer Endowed Chair in Nursing and Professor:* TBA. *Doctor of Nursing Practice Program Director:* Pamela Gehrke. *Adult-Gerontology Nurse Practitioner Program Director:* Jennifer Stock. *RN-BS Completion Track Program Director:* Marilyn O'Mallon. *Undergraduate Pre-licensure Program Director:* Faye Carlson. *Simulation Certificate Program Director:* Janet Willhaus. *Professor:* Josephsen. *Associate Professors:* Ahten, Connor, Gallegos, Gehrke, O'Mallon, Prengaman, Serratt, Veltman, Willhaus. *Assistant Professor:* Zhao. *Clinical Associate Professors:* Carlson, Godard, Hunter, Miklush, Molina-Shaver, Walters. *Clinical Assistant Professors:* Anderson, Copeland, Crouch, Farahany, Finnell, Loos-Bartlett, Lugo, Marsh, McCall, Milojevic, Mulcock, Stock, Ulrich, Wilson. *Simulation Center Operations Coordinator:* Jennifer Kepler.

## Degrees Offered

- Bachelor of Science in Nursing

## School Statement

The School of Nursing offers a Bachelor of Science (BS) degree for those desiring licensure as a Registered Nurse (RN). The Undergraduate Bachelor of Science Program is designed as a four year program. The School also offers an on-line RN to BS Completion track for individuals who are already licensed as a Registered Nurse wanting to complete a Bachelor of Science degree. In addition, the School of Nursing also offers degrees of Master of Nursing, Simulation Certificate, Doctor of Nursing Practice, and new graduate programs as announced on the website. Contact the School of Nursing at the above telephone, fax, email, or website to obtain more information on the nursing educational programs at Boise State University.

The Bachelor of Science in Nursing Program is approved by the Idaho State Board of Nursing. The Bachelor of Science Program is accredited by the Commission on Collegiate Nursing Education (CCNE), 655 K Street, NW, Suite 750, Washington, D. C. 20001.

Students accepted into the Undergraduate Bachelor of Science in Nursing Program will be required to submit to multiple criminal background clearances and drug and alcohol clearances at their own expense throughout the Program. Information obtained from the background clearances deemed to be detrimental to the care of patients will result in dismissal from the Program. Please see the School of Nursing's policies to obtain more information about the background and drug and alcohol clearances.

## Admission and Advising Requirements

### Standard Admission

Bachelor of Science Degree students interested in pursuing a nursing degree must be accepted for admission to the Bachelor of Science Nursing Program before a student may enroll in nursing courses. All admission requirements must be completed as listed below before admission will be granted. Students are strongly encouraged to work with an advisor through <https://www.boisestate.edu/healthsciences-advising/>.

Admission to the Bachelor of Science in Nursing Program will be based on various academic/personal requirements. Admission to the Nursing program also requires the Kaplan Pre-Admissions Test at student's expense. Please see the School of Nursing website, <https://www.boisestate.edu/nursing/>, to obtain additional information about admission criteria, the application process, application deadlines and course sequencing.

Admission is competitive and due to the large number of students seeking admission to the Bachelor of Science Nursing Program, not all applicants can be admitted.

Admission requirements for the Bachelor of Science in Nursing Program for those not licensed as a registered professional nurse (RN) include:

Applicants must have a minimum cumulative GPA of 2.5

All courses in this table must be completed with a grade of C or better (not a C-).

1. These courses must be completed before application.
  - A minimum of a 3.0 GPA or better is required on these courses for Nursing Program admission.
  - MATH 153 or MATH 254
  - CHEM 101 with lab or CHEM 111 with lab
  - BIOL 227, BIOL 228
  - HLTH 207
2. These courses need to be completed before an application, but are used to calculate cumulative GPA.
  - ENGL 101, ENGL 102
  - PSYC 101
  - UF 100\*
  - SOC 101 or 102 or 230 or SOCWRK 101 (FS)
3. These courses must be completed before or during the semester of application into the Nursing Program.
  - UF 200\*
  - BIOL 205
  - HLTH 300
  - Foundations of Oral Communication course (FC)

\*Students transferring from another institution and those who already have at least an academic associate of science or an associate of arts degree, and are general education core certified, do not need to take these courses prior to admission. For more details see: <https://www.boisestate.edu/academics-uf/>.

### Direct Admission (Idaho residents only)

Direct admission is a criterion-based early admission program for pre-nursing students who have exemplary academic performance during high school and are graduates of Idaho high schools.

1. Limited to approximately 40 of the top most qualified candidates
2. Selection process occurs when new incoming freshman applies and is accepted into Boise State University
3. High school Cumulative GPA of 3.0 or higher

How to be considered:

1. High school seniors graduating from an Idaho high school apply for admission to Boise State University
2. Declare intent to pursue baccalaureate degree in nursing on Boise State admission application
3. Priority given to early applications
4. Transfer students are not eligible for direct admission (apply through standard process)
5. Students who are not selected for direct admission are encouraged to apply for admission to the Bachelor of Science Nursing Program through the standard admission process
6. Students who are selected receive conditional admission based on completion of prerequisite coursework based on the Progression Criteria listed. Students who do not meet the Progression Criteria may apply for standard admission

# NURSING

## Progression Criteria:

1. Maintain a cumulative GPA of 3.0 or higher in all Boise State University undergraduate coursework until admission to the nursing program
2. Minimum grade of B or higher in all core courses
3. Obtain a C or higher in all other prerequisite nursing coursework but with a minimum 3.0 GPA or better on courses required for Nursing Program admission
  - MATH 153 or MATH 254
  - CHEM 101 with lab or CHEM 111 with lab
  - BIOL 227, BIOL 228
  - HLTH 207

## Degree Requirements

| Nursing Bachelor of Science   |         |
|---|---------|
| Course Number and Title   | Credits |
| University Foundations requirements indicated in bold. See page 48 for details and lists of approved courses.   |         |
| <b>UF 100</b> Foundations of Intellectual Life  | 3       |
| <b>UF 200</b> Foundations of Ethics and Diversity   | 3       |
| <b>FW ENGL 101</b> Writing and Rhetoric I   | 3       |
| <b>FW ENGL 102</b> Writing and Rhetoric II  | 3       |
| <b>FC</b> Foundations of Oral Communication   | 3       |
| <b>FM MATH 153</b> Statistical Reasoning or <b>FM MATH 254</b> Introduction to Statistics   | 3       |
| <b>FN BIOL 227</b> Human Anatomy and Physiology I   | 4       |
| <b>FN CHEM 101, 101L</b> Introduction to Chemistry & Lab or <b>FN CHEM 111, 111L</b> General Chemistry I with Lab   | 4       |
| <b>FA</b> Foundations of Arts course  | 3       |
| <b>FH</b> Foundations of Humanities course  | 3-4     |
| <b>FS PSYC 101</b> Introduction to Psychology   | 3       |
| <b>FS SOC 101</b> Introduction to Sociology or <b>FS SOC 102</b> Social Problems or <b>FS SOC 230</b> Introduction to Ethnic Studies or <b>FS SOCWRK 101</b> Introduction to Social Welfare | 3       |
| <b>BIOL 205</b> Introductory Microbiology   | 4       |
| <b>BIOL 228</b> Human Anatomy and Physiology II   | 4       |
| <b>HLTH 207</b> Nutrition   | 3       |
| <b>HLTH 300</b> Pathophysiology   | 4       |
| <b>FF HLTH 400</b> Interprofessional Capstone   | 1       |
| <b>NURS 105</b> Interprofessional Patient Care Skills Lab   | 2       |
| <b>NURS 226</b> Introduction to Professional Nursing  | 3       |
| <b>NURS 228, 229</b> Health Assessment and Lab  | 3       |
| <b>NURS 230</b> Dosage Calculations for Nurses  | 1       |
| <b>NURS 232, 233</b> Foundations of Nursing Care and Lab  | 4       |
| <b>NURS 330</b> Applied Pharmacotherapeutics for Nurses   | 3       |
| <b>NURS 332, 333</b> Nursing in Health and Illness I and Lab  | 6       |
| <b>NURS 334, 335</b> Behavioral Health Nursing and Lab  | 4       |
| <b>NURS 342, 343</b> Nursing in Health and Illness II and Lab   | 6       |
| <b>NURS 344, 345</b> Child and Family Nursing and Lab   | 6       |
| <b>NURS 392</b> Nursing Research and Evidence Based Practice  | 3       |
| <b>NURS 414</b> Critical Thinking Synthesis   | 1       |
| <b>NURS 416, 417</b> Community & Population Health Nursing & Lab  | 6       |
| <b>NURS 420</b> Policy, Power, and Voice  | 3       |
| <b>NURS 422</b> Care Coordination and Resource Management   | 3       |

|   |     |
|---|-----|
| NURS 424 Nursing Leadership & Management  | 3   |
| NURS 427 Clinical Preceptorship   | 5   |
| NURS 428 Nursing Roles in Healthy Aging   | 2   |
| NURS 430 Selected Topics in Nursing Care of Vulnerable Populations                        | 1   |
| Electives to total 120 credits  | 0-1 |
| Total   | 120 |
| Nursing students must earn a grade of C (not C-) or better in all nursing (NURS) courses. |     |

## RN-BS Completion Track (For individuals with a Registered Nurse (RN) license applying to the Undergraduate Bachelor of Science Nursing Program.)

Students interested in pursuing a Baccalaureate degree must be accepted for admission to the Bachelor of Science Nursing Program, RNBS Track before a student may enroll in nursing or other courses. Students are strongly encouraged to work with an advisor through <https://www.boisestate.edu/nursing-rnbs/>.

RNs with an academic Associate of Science or an Associate of Arts degree from a regionally accredited institution, including Boise State, are considered core certified.

For RNs who have been awarded an Associate of Science (AS) or Associate of Arts (AA) in Nursing or have a previous bachelor's degree, will take specific sections offered online.

| Nursing, RN-BS Completion AA or AS Track Bachelor of Science   |         |
|--|---------|
| Course Number and Title  | Credits |
| University Foundations requirements indicated in bold. See page 48 for details and lists of approved courses.  |         |
| <b>FF HLTH 400</b> Interprofessional Capstone  | 1       |
| <b>NURS-RN 350</b> Professional Transitions in Nursing   | 3       |
| <b>NURS-RN 392</b> Nursing Research & Evidence Based Practice  | 3       |
| <b>NURS-RN 416, NURS-RN 417</b> Community & Population Health Nursing & Lab  | 6       |
| <b>NURS-RN 420</b> Policy, Power, and Voice  | 3       |
| <b>NURS-RN 422</b> Care Coordination and Resource Management   | 3       |
| <b>NURS-RN 424, NURS-RN 425</b> Nursing Leadership & Management & Lab  | 5       |
| <b>NURS-RN 428</b> Nursing Roles in Healthy Aging  | 2       |
| <b>NURS-RN 430</b> Selected Topics in Nursing Care of Vulnerable Populations   | 1       |
| <b>NURS-RN 432</b> Preparing for Graduate Education and Advanced Practice  | 2       |
| Statistics Course*   | 3       |
| Credit for Prior Learning  | 24      |
| Transfer credit from AA or AS degree   | 64      |
| Total  | 120     |
| Recommended: NURS-RN 306 E-Learning Preparation for RNs. Nursing students must earn a grade of C (not C-) or better in all nursing (NURS-RN) courses.<br>*If MATH 153 or MATH 254 is taken to fulfill the FM requirement, then the "statistics course" requirement is fulfilled. |         |

RNs with AAS or ADN degrees in Nursing from a regionally accredited institution are required to take UF 200 Foundations of Ethics and Diversity and may need other university University Foundations courses to meet the requirements for the BS degree.

Special admission consideration is given to students who have been awarded a degree making them eligible for licensure as a Registered Nurse.

For RNs who have been awarded an AAS or ADN, in Nursing, will take specific online sections.

| Nursing, RN-BS Completion AAS or ADN Track<br>Bachelor of Science  |            |
|--|------------|
| Course Number and Title  | Credits    |
| University Foundations requirements indicated in bold. See page 48 for details and lists of approved courses.  |            |
| <b>UF 200</b> Foundations of Ethics and Diversity  | 3          |
| <b>FW ENGL 101</b> Writing and Rhetoric I  | 3          |
| <b>FW ENGL 102</b> Writing and Rhetoric II   | 3          |
| <b>FC</b> Foundations of Oral Communication  | 3          |
| <b>FM</b> Foundations of Mathematics course  | 3-4        |
| <b>FN BIOL 227</b> Human Anatomy and Physiology I  | 4          |
| <b>FN CHEM 100</b> Concepts of Chemistry or<br><b>FN CHEM 101, 101L</b> Introduction to Chemistry & Lab or<br><b>FN CHEM 111, 111L</b> General Chemistry I & lab   | 4          |
| <b>FA</b> Foundations of Arts course   | 3          |
| <b>FH</b> Foundations of Humanities course   | 3-4        |
| <b>FS PSYC 101</b> Introduction to Psychology  | 3          |
| <b>FS</b> Foundations of Social Sciences course in a second field  | 3          |
| <b>FF HLTH 400</b> Interprofessional Capstone  | 1          |
| <b>NURS-RN 350</b> Professional Transitions in Nursing   | 3          |
| <b>NURS-RN 392</b> Nursing Research & Evidence Based Practice  | 3          |
| <b>NURS-RN 416, NURS-RN 417</b> Community and Population Health Nursing and Lab  | 6          |
| <b>NURS-RN 420</b> Policy, Power, and Voice  | 3          |
| <b>NURS-RN 422</b> Care Coordination & Resource Management   | 3          |
| <b>NURS-RN 424, NURS-RN 425</b> Nursing Leadership and Management and Lab  | 5          |
| <b>NURS-RN 428</b> Nursing Roles in Healthy Aging  | 2          |
| <b>NURS-RN 430</b> Selected Topics in Nursing Care of Vulnerable Populations   | 1          |
| <b>NURS-RN 432</b> Preparing for Graduate Education and Advanced Practice  | 2          |
| Statistics Course*   | 3          |
| Credit for Prior Learning (Nursing courses)  | 39         |
| Transfer or additional credit taken  | 12-14      |
| <b>Total</b>   | <b>120</b> |
| Recommended: <b>NURS-RN 306</b> E-Learning Preparation for RNs<br>Nursing students must earn a grade of C (not C-) or better in all nursing (NURS) courses.<br>*If MATH 153 or MATH 254 is taken to fulfill the FM requirement, then the "statistics course" requirement is fulfilled. |            |

## Course Offerings

### NURS—Nursing

#### Lower Division

**NURS 105 INTERPROFESSIONAL PATIENT CARE SKILLS LAB (0-6-2) (F, S).** An interprofessional team approach is used to teach basic patient care skills and interventions to restore and protect health. (Pass/Fail.) PREREQ: Admission to program track.

**NURS 108 STEP INTO NURSING (1-0-1)(F, S).** Introduction to the nursing program, career options, expectations of students, and the knowledge, skills and attitudes required for success in the nursing program.

**NURS 226 INTRODUCTION TO PROFESSIONAL NURSING (3-0-3)(F, S).** Selected knowledge, skills, attitudes, and concepts of nursing, health, and health care delivery systems; introduction to medical terminology. PREREQ: Admission to program track, ENGL 102. COREQ: NURS 228.

**NURS 228 HEALTH ASSESSMENT (2-0-2)(F, S).** Through lecture and technology, introduces nursing process and health assessment across the life span including concepts of health promotion and preventive care. PREREQ: Admission to the program track. COREQ: NURS 229.

**NURS 229 HEALTH ASSESSMENT LAB (0-3-1)(F, S).** Application of concepts from NURS 228 through practice and simulation. (Pass/Fail.) PREREQ: Admission to program track. COREQ: NURS 228.

**NURS 230 DOSAGE CALCULATIONS FOR NURSES (1-0-1)(F, S).** Application of algebra, mathematical ratios and proportions in medication administration. PREREQ: Admission to program track. COREQ: NURS 105, NURS 228.

**NURS 232 FOUNDATIONS OF NURSING CARE (3-0-3)(F, S).** Introduction to concepts of nursing, therapeutic nursing interventions and critical thinking for acute and chronic alterations in health. PREREQ: Admission to program track. COREQ: NURS 228, NURS 229. PRE/COREQ: HLTH 300.

**NURS 233 FOUNDATIONS OF NURSING CARE LAB (0-3-1)(F, S).** Clinical application of assessment, therapeutic communication, patient care skills, and other components of concurrent courses and prior courses in acute and chronic health care setting. (Pass/Fail.) PREREQ: Admission to program track. COREQ: NURS 232, NURS 226.

#### Upper Division

**NURS 330 APPLIED PHARMACOTHERAPEUTICS FOR NURSES (3-0-3)(F, S).** Emphasis on nursing applications in drug therapy for health and illness, legal aspects, and patient education across the life span. Application of prerequisite information in Pathophysiology to study drugs and their intersystem relations. PREREQ: Admission to program track, HLTH 300. COREQ: NURS 232.

**NURS 332 NURSING IN HEALTH AND ILLNESS I (3-0-3)(F, S).** Concepts of medical/surgical nursing; therapeutic nursing interventions and critical thinking for acute and chronic alterations in health across the life span. PREREQ: Admission to program track, HLTH 300, NURS 232. COREQ: NURS 333.

**NURS 333 NURSING IN HEALTH AND ILLNESS I LAB (0-9-3)(F, S).** Clinical application of medical/surgical nursing concepts, therapeutic nursing interventions and critical thinking in acute and chronic alterations in health in acute care health settings. Integrates concepts, pathophysiology, pharmacotherapeutics, and nursing interventions. (Pass/Fail.) PREREQ: Admission to program track, HLTH 300, NURS 232. COREQ: NURS 332.

**NURS 334 BEHAVIORAL HEALTH NURSING (3-0-3)(F, S).** Theory and principles of nursing practice in behavioral health. Includes psychopathology and therapeutic approaches in mental health and illness. PREREQ: Admission to program track. COREQ: NURS 332, NURS 335.

**NURS 335 BEHAVIORAL HEALTH NURSING LAB (0-3-1)(F, S).** Clinical lab focused on applying and implementing concepts related to chronic and

## NURSING

complex behavioral health issues within the community and acute care settings. Integrates concepts and theory from NURS 334. (Pass/Fail.) PREREQ: Admission to program track, NURS 232. COREQ: NURS 334.

### **NURS 342 NURSING IN HEALTH AND ILLNESS II (3-0-3)(F, S).**

Continuation of NURS 332. Further exploration of concepts of medical/surgical nursing, therapeutic nursing interventions and critical thinking for acute and chronic alterations in health across the life span. PREREQ: Admission to program track, NURS 330. COREQ: NURS 343.

### **NURS 343 NURSING IN HEALTH AND ILLNESS II LAB (0-9-3)(F, S).**

Clinical experiences in acute and chronic health settings. Include focus on application of knowledge and skills from concurrent and prior courses. Include emphasis on care planning, prioritization, delegation. (Pass/Fail.) PREREQ: Admission to program track, NURS 330, NURS 332. COREQ: NURS 342.

**NURS 344 CHILD AND FAMILY NURSING (4-0-4)(F, S).** Nursing assessments, interventions and critical thinking for health promotion for families across the life span. Builds on growth and development theory to focus on family assessment, child health and reproductive health. PREREQ: Admission to program track, NURS 330, NURS 332. COREQ: NURS 345.

**NURS 345 CHILD AND FAMILY NURSING LAB (0-6-2)(F, S).** Clinical application of knowledge and skills from NURS 344 and prior courses. Includes community, virtual clinical experiences, and simulation. (Pass/Fail.) PREREQ: Admission to program track, NURS 330, NURS 332. COREQ: NURS 344.

**NURS 370 HOLISTIC NURSING CARE (2-0-2)(F, S).** Theoretical frameworks and evidence-based practice for mind-body-spirit wellness/healing. Supervised practice in holistic therapeutic nursing interventions. PREREQ: Admission to program track or PERM/INST.

**NURS 373 (ENGR 373) GLOBAL CITIZENSHIP AND SOCIAL RESPONSIBILITY (3-0-3)(S).** A collaborative approach for addressing the global issues of poverty and inequity from the context of integrated health, business, education, and engineering systems. Requires an international, spring break service learning experience; acceptance into Study Abroad required. May be taken for credit for NURS or ENGR, but not both.

**NURS 375 EMERGENCY NURSING CARE (2-3-3)(F, S).** Develop knowledge and skills in emergency nursing care. PREREQ: Admission to program track, NURS 342 or PERM/INST.

**NURS 376 CARING FOR THE DIVERSE COMMUNITY (3-0-3)(F, S).** Examining cultural belief systems and utilizing a variety of assessment models during encounters in the community to broaden nursing skills and practice through a variety of applications. PREREQ: Admission to program track.

**NURS 377 RURAL NURSING (1-2-3)(SU).** An introduction to rural nursing theory, research, and clinical practice. PREREQ: Admission to program track NURS 332, NURS 333 or PERM/INST.

**NURS 379 NURSING CARE FOR NICU, L & D, OR PEDIATRIC PATIENTS AND THEIR FAMILIES (1-3-2)(F, S).** Provides students with the opportunity to expand their experiences in the specialized areas of perinatal, post-partum, or pediatric clients. PREREQ: Admission to program track, NURS 330 or NURS 342 or PERM/INST.

**NURS 392 NURSING RESEARCH AND EVIDENCE BASED PRACTICE (3-0-3)(F, S).** Introduction to the research process. Emphasis on defining researchable problems, analyzing steps in the research process, and utilizing research in the practice setting. PREREQ: Admission to program track, MATH 153 or MATH 254.

**NURS 407 NURSING PROJECT ELECTIVE (Variable 1-3)(F, S).** Synthesis of nursing concepts into developed projects within various health care venues. May be repeated once for credit. (Pass/Fail.) PREREQ: Admission to program track or PERM/INST.

**NURS 409 CLINICAL NURSING ELECTIVE (0-6-2)(F, S).** Precepted course. Provides students with experience in the management of nursing care of clients in various community sites. (Pass/Fail.) PREREQ: Admission to program track or PERM/INST.

**NURS 414 CRITICAL THINKING SYNTHESIS (1-0-1)(F, S).** Critical thinking related to licensure, delegation, and dilemmas in practice. PREREQ: Admission to program track, NURS 342, NURS 344, NURS 392.

**NURS 416 COMMUNITY AND POPULATION HEALTH NURSING (3-0-3)(F, S).** Concepts and principles of community and population health nursing in professional practices. PREREQ: Admission to program track, NURS 392.

**NURS 417 COMMUNITY AND POPULATION HEALTH NURSING (0-9-3)(F, S).** Application of community and population health nursing concepts and principles in professional practice. PREREQ: Admission to program track, NURS 392.

**NURS 420 POLICY, POWER, AND VOICE (3-0-3)(F, S).** Use of personal power to plan career goals. Exploration of nurses' personal and collective power and voice to participate as leaders and advocates in health policy process. PREREQ: Admission to program track, ENGL 102, NURS 392.

**NURS 422 CARE COORDINATION AND RESOURCE MANAGEMENT (3-0-3)(F, S).** is course focuses on health care coordination and resource management, using the principles of collaborative interprofessional practice and health information management to deliver safe and appropriate patient care. PREREQ: Admission to program track, NURS 392.

**NURS 424 NURSING LEADERSHIP AND MANAGEMENT (3-0-3)(F, S).** Focuses on application of leadership theories, principles, evidence-based practice, personal and professional accountability and ethical decision making strategies that impact the health of individuals, groups, communities, and society. PREREQ: Admission to program track, NURS 392.

**NURS 427 CLINICAL PRECEPTORSHIP (0-15-5)(F, S).** Precepted clinical experience in selected health care settings. Focus on management of care, priority setting, delegation, managing and leading teams, resource management and utilization. (Pass/Fail.) PREREQ: Admission to program track, NURS 392. COREQ: NURS 424.

**NURS 428 NURSING ROLES IN HEALTHY AGING (2-0-2)(F, S).** Focuses on the role of the nurse from a holistic perspective in promoting healthy aging and healthy adaptation to disease processes and issues common to the older adult. PREREQ: Admission to program track. COREQ: NURS 424.

**NURS 430 SELECTED TOPICS IN NURSING CARE OF VULNERABLE POPULATIONS (1-0-1)(F, S).** This course provides a philosophical and practical overview of nursing care of specific vulnerable populations. Topics covered include legal and ethical issues, decision making, professional values, nursing roles, and patient/family centered care that addresses physical, psychological, and social wellbeing. PREREQ: Admission to program track, NURS 392 or PERM/INST.

**NURS 432 PREPARING FOR GRADUATE EDUCATION AND ADVANCED PRACTICE (2-0-2)(F/S/SU).** Explores graduate education opportunities and provides knowledge, skills and abilities needed for success in graduate programs of nursing. PREREQ: Admission to program track, NURS 392.

## **NURS-RN—Nursing**

### **Upper Division**

**NURS-RN 306 E-LEARNING PREPARATION FOR THE RN (1-0-1)(F, S, SU).** Prepares RNs in understanding how to be successful in the online/distance completion option in the School of Nursing at Boise State University. PREREQ: Admission to program track.

**NURS-RN 350 PROFESSIONAL TRANSITIONS IN NURSING FOR THE RN (3-0-3)(F, S, SU).** Introductory course designed to meet the learning needs of registered nurses who want to continue their professional education and receive a baccalaureate degree in nursing. Emphasis on role transition and professional communication. PREREQ: Admission to program track.



**NURS-RN 392 NURSING RESEARCH AND EVIDENCE BASED PRACTICE (3-0-3)(F, S, SU).** Introduction to the research process. Emphasis on defining researchable problems, analyzing steps in the research process, and utilizing research in the practice setting. PREREQ: Admission to program track, ENGL 102. PRE/COREQ: a statistics course.

**NURS-RN 416 COMMUNITY AND POPULATION HEALTH NURSING (3-0-3)(F, S).** Concepts and principles of community and population health nursing in professional practices. PREREQ: Admission to program track, NURS-RN 392.

**NURS-RN 417 COMMUNITY AND POPULATION HEALTH NURSING LAB (0-9-3)(F, S).** Application of community and population health nursing concepts and principles in professional practice. PREREQ: Admission to program track, NURS-RN 392. PRE/COREQ: NURS-RN 416.

**NURS-RN 420 POLICY, POWER, AND VOICE (3-0-3)(F, S, SU).** Use of personal power to plan career goals. Exploration of nurses' personal and collective power and voice to participate as leaders and advocates in health policy process. PREREQ: Admission to program track, NURS-RN 392.

**NURS-RN 422 CARE COORDINATION AND RESOURCE MANAGEMENT (3-0-3)(F, S, SU).** This course focuses on health care coordination and resource management, using the principles of collaborative interprofessional practice and health information management to deliver safe and appropriate patient care. PREREQ: Admission to program track.

**NURS-RN 424 NURSING LEADERSHIP AND MANAGEMENT (3-0-3)(F, S).** Focuses on application of leadership theories, principles, evidence based practice, personal and professional accountability and ethical decision making strategies that impact the health of individuals, groups, communities and society. PREREQ: Admission to program track, NURS 392 or NURS-RN 392.

**NURS-RN 425 NURSING LEADERSHIP AND MANAGEMENT LAB (0-6-2)(F, S).** Clinical application of leadership and management concepts, tailored to student expertise and professional goals. PREREQ: Admission to program track, NURS-RN 392. PRE/COREQ: NURS-RN 424.

**NURS-RN 428 NURSING ROLES IN HEALTHY AGING (2-0-2)(F, S, SU).** Focuses on the role of the nurse from a holistic perspective in promoting healthy aging and healthy adaptation to disease processes and issues common to the older adult. PREREQ: Admission to program track.

**NURS-RN 430 SELECTED TOPICS IN NURSING CARE OF VULNERABLE POPULATION (1-0-1)(F, S, SU).** Provides a philosophical and practical overview of nursing care of specific vulnerable populations. Topics covered include legal and ethical issues, decision making, professional values, nursing roles, and patient/family centered care that addresses physical, psychological, and social wellbeing. May be repeated up to 4 credits. PREREQ: Admission to program track.

**NURS-RN 432 PREPARING FOR GRADUATE EDUCATION AND ADVANCED PRACTICE (2-0-2)(F, S, SU).** Explores graduate education opportunities and provides knowledge, skills and abilities needed for success in graduate programs of nursing. PREREQ: Admission to program track, NURS 392 or NURS-RN 392.

**NURS-RN 434 PLANNING FOR A FINANCIALLY SAVVY CAREER AND RETIREMENT (1-0-1)(F, S, SU).** This course will acquaint the student with concepts of financial management and retirement planning. Skills will be derived to complete and understand budgets and future planning. PREREQ: Admission to the program track.

## Department of Philosophy

### College of Arts and Sciences

Education Building, 6<sup>th</sup> Floor  
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(208) 426-4332 (fax)  
philosophy@boisestate.edu (email)  
<https://www.boisestate.edu/philosophy/> (website)

*Chair and Professor:* Steven Crowley. *Professors:* Cortens, Roark. *Associate Professors:* Jackson, Kierland. *Lecturers:* Pearson.

### Degrees Offered

- Bachelor of Arts in Philosophy
  - Ethics and Argument Emphasis
- Minor in Ethics and Argument
- Minor in Philosophy

### Department Statement

Philosophy involves a reasoned attempt to answer questions that arise from reflection on basic concepts and assumptions about the world and our experience of it. Some of these questions are of obvious practical importance, for example, "What is the morally right thing to do?" Others are more abstract, for example, "What is the nature of knowledge (or reality, or goodness)?" Serious philosophical inquiry into such questions is typically grounded in careful study of the efforts of earlier thinkers; thus, an important aspect of the major is the study of the history of philosophy.

The undergraduate major in philosophy develops intellectual skills useful in life, in many careers, and in other fields of advanced study, such as law, religion, and public affairs. For students who aspire to academic careers in philosophy, the major provides the basis for graduate work in the field.

The program requirements for a major in philosophy, in addition to the necessary requirements to obtain a bachelor of arts degree from Boise State University, consist of 37 hours of philosophy credit at various levels. (See "Degree Requirements", below, for further details.) Philosophy majors should bear in mind that the university requires the completion of a total of 40 hours of upper-division credit by all graduating seniors.

### Degree Requirements

| Philosophy<br>Bachelor of Arts   |         |
|--|---------|
| Course Number and Title  | Credits |
| University Foundations requirements indicated in bold. See page 48 for details and lists of approved courses.  |         |
| <b>UF 100</b> Foundations of Intellectual Life   | 3       |
| <b>UF 200</b> Foundations of Ethics and Diversity  | 3       |
| <b>FW ENGL 101</b> Writing and Rhetoric I  | 3       |
| <b>FW ENGL 102</b> Writing and Rhetoric II   | 3       |
| <b>FC</b> Foundations of Oral Communication  | 3       |
| <b>FM</b> Foundations of Mathematics course  | 3-4     |
| <b>FN</b> Foundations of Natural, Physical, & Applied Sciences course with lab   | 4       |
| <b>FN</b> Foundations of Natural, Physical, & Applied Sciences course in a second field  | 3-4     |
| <b>FA</b> Foundations of Arts course   | 3       |
| <b>FH PHIL 101</b> Introduction to Philosophy or<br><b>FH PHIL 102</b> Intro to Philosophy: Great Thinkers or<br><b>FH PHIL 103</b> Introduction to Ethics | 3       |
| <b>FS</b> Foundations of Social Sciences course  | 3       |
| <b>FS</b> Foundations of Social Sciences course in a second field  | 3       |
| <b>PHIL 209</b> Thinking Well: An Introduction to Logic  | 3       |

## PHILOSOPHY

|  |            |
|--|------------|
| PHIL 301 Puzzles and Paradoxes   | 3          |
| Two (2) of the following:<br>PHIL 305 Ancient Greek Philosophy<br>PHIL 307 Medieval Philosophy<br>PHIL 309 Modern Philosophy   | 6          |
| <b>FF</b> PHIL 495 Senior Comprehensive Assessment   | 1          |
| Upper-division Philosophy electives  | 9          |
| In addition, complete either the following coursework to graduate with a BA in Philosophy (without an emphasis) or complete the coursework under the Ethics and Argument emphasis to graduate with a BA in Philosophy, Ethics and Argument Emphasis.   |            |
| Four (4) of the following:<br>PHIL 304 Symbolic Logic<br>PHIL 306 Philosophy of Science<br>PHIL 308 Philosophy of Language<br>PHIL 310 Philosophy of Mind<br>PHIL 311 Normative Ethics<br>PHIL 312 Meta-Ethics<br>PHIL 313 Analytic Philosophy<br>PHIL 333 Metaphysics<br>PHIL 335 Epistemology<br>PHIL 437 Advanced Topics<br>PHIL 489 Senior Research  | 12         |
| Upper-division electives to total 40 credits   | 9          |
| Electives to total 120 credits   | 38-40      |
| <b>Total</b>   | <b>120</b> |
| <b>Ethics and Argument Emphasis</b>  |            |
| Three (3) of the following:<br>PHIL 303 Philosophy of Law<br>PHIL 308 Philosophy of Language<br>PHIL 311 Normative Ethics<br>PHIL 335 Epistemology   | 9          |
| One (1) of the following (other than ones completed from above list):<br>PHIL 303 Philosophy of Law<br>PHIL 304 Symbolic Logic<br>PHIL 306 Philosophy of Science<br>PHIL 308 Philosophy of Language<br>PHIL 310 Philosophy of Mind<br>PHIL 311 Normative Ethics<br>PHIL 312 Meta-Ethics<br>PHIL 313 Analytic Philosophy<br>PHIL 333 Metaphysics<br>PHIL 335 Epistemology<br>PHIL 437 Advanced Topics<br>PHIL 489 Senior Research | 3          |
| Upper-division electives to total 40 credits   | 9          |
| Electives to total 120 credits   | 38-40      |
| <b>Total</b>   | <b>120</b> |

| Ethics and Argument Minor  |                |
|--|----------------|
| <i>Course Number and Title</i>   | <i>Credits</i> |
| PHIL 101 Introduction to Philosophy or<br>PHIL 102 Intro to Philosophy: Great Thinkers or<br>PHIL 103 Introduction to Ethics | 3              |
| PHIL 209 Thinking Well: An Introduction to Logic   | 3              |
| PHIL 301 Puzzles and Paradoxes   | 3              |
| Two (2) of the following:<br>PHIL 303 Philosophy of Law<br>PHIL 311 Normative Ethics<br>PHIL 308 Philosophy of Language      | 6              |
| Upper-division philosophy courses other than PHIL 489  | 3              |
| <b>Total</b>   | <b>18</b>      |

| Philosophy Minor   |                |
|--|----------------|
| <i>Course Number and Title</i>   | <i>Credits</i> |
| PHIL 101 Introduction to Philosophy or<br>PHIL 102 Intro to Philosophy: Great Thinkers or<br>PHIL 103 Introduction to Ethics | 3              |
| PHIL 209 Thinking Well: An Introduction to Logic   | 3              |
| PHIL 301 Puzzles and Paradoxes   | 3              |
| Upper-division philosophy courses other than PHIL 489  | 6              |
| Philosophy course other than PHIL 489  | 3              |
| <b>Total</b>   | <b>18</b>      |

### Course Offerings

#### PHIL—Philosophy

##### Lower Division

**PHIL 101 INTRODUCTION TO PHILOSOPHY (3-0-3)(F, S)(FH).** An introduction to some major issues in metaphysics and epistemology, such as free will, the existence of God, the rationality of religious belief, the mind/body problem, personal identity, skepticism about external world, and the problem of induction.

**PHIL 102 INTRODUCTION TO PHILOSOPHY: GREAT THINKERS (3-0-3)(F, S)(FH).** An introduction to the thought of some major figures from the history of western philosophy, such as Plato, Aristotle, Aquinas, Anselm, Locke, Hume, Descartes, Berkeley, Kant, and Marx. pull

**PHIL 103 INTRODUCTION TO ETHICS (3-0-3)(F, S)(FH).** An introduction to philosophical thinking about selected moral problems, such as famine, abortion, euthanasia, the moral status of animals, and whether killing is worse than letting-die.

**PHIL 209 THINKING WELL: INTRODUCTION TO LOGIC (3-0-3)(F, S)(FH).** How do we tell when one claim follows from, or is supported by, another? This course aims to answer that question, and to teach you how to prove that a conclusion follows logically—or that it doesn't. This skill is important both inside and outside of the classroom—it is central to reading, thinking, and writing well about any question. The focus will be on evaluating reasoning in a formal language—one designed to make the logical features of our reasoning clear.

**PHIL 220 (STEM-ED 220) PHILOSOPHICAL PERSPECTIVES ON SCIENCE AND MATHEMATICS (2-3-3)(F, S)(FH).** Introduction to the historical, social, and philosophical implications of math and science. Laboratory focuses on replication of significant discoveries. May be taken for either PHIL or STEM-ED credit, but not both.

##### Upper Division

**PHIL 301 PUZZLES AND PARADOXES (3-0-3)(F, S).** Puzzles can be both fun and frustrating. Working to solve them can provide fascinating insights. This course will cover a variety of challenging philosophical puzzles about the nature of reality, morality, and what we can know about the world. These puzzles have not yet been solved. Even if you don't solve a particular puzzle completely, working toward the answer can generate illuminating methods and ideas. Thinking about puzzles and paradoxes hones your skills as a thinker—and is lots of fun. PREREQ: ENGL 102, PHIL 101 or PHIL 102 or PHIL 103.

**PHIL 303 PHILOSOPHY OF LAW (3-0-3)(F).** Examines fundamental issues in the philosophy of law. Includes the nature and content of law, its relation to morality, theories of legal interpretation, and the obligation to obey the law. Philosophical issues and problems associated with punishment and responsibility, liberty, and legal ethics. PREREQ: PHIL 101 or PHIL 102 or PHIL 103.

**PHIL 304 SYMBOLIC LOGIC (3-0-3)(Offered as Justified).** A study of techniques of validation in propositional and predicate logic, with emphasis on the construction of formal proofs. Some attention will be given to metalogical notions such as consistency and completeness. PREREQ: PHIL 209.

**PHIL 305 ANCIENT GREEK PHILOSOPHY (3-0-3)(F).** An introduction to the origins of Western philosophy in the ancient world, with emphasis on Plato and Aristotle. PREREQ: PHIL 101 or PHIL 102 or PHIL 103.

**PHIL 306 PHILOSOPHY OF SCIENCE (3-0-3)(Offered as Justified).** A study of philosophical issues raised by reflection on the nature of science and the results of scientific inquiry. PREREQ: PHIL 101 or PHIL 102 or PHIL 103.

**PHIL 307 MEDIEVAL PHILOSOPHY (3-0-3)(Offered as Justified).** A survey of major developments in Western philosophy from St. Augustine through William of Ockham, with emphasis on selected figures. PREREQ: PHIL 101 or PHIL 102 or PHIL 103.

**PHIL 308 PHILOSOPHY OF LANGUAGE (3-0-3)(Offered as Justified).** An investigation of basic philosophical problems concerning language and communication. Topics may include: truth, meaning, reference, proper names, descriptions, the distinction between semantics and pragmatics, and context-sensitivity. PREREQ: PHIL 101 or PHIL 102 or PHIL 103.

**PHIL 309 MODERN PHILOSOPHY (3-0-3)(F).** Covers important developments in Western philosophy from the 17th and 18th centuries, developments that still have ramifications today. Philosophers covered may include Descartes, Leibniz, Locke, Hume and Kant. Issues covered may include the foundations of knowledge, rationalism vs. empiricism, the nature of the self, the relation of objects to their properties, whether God exists, and the just organization of society. PREREQ: PHIL 101 or PHIL 102 or PHIL 103.

**PHIL 310 PHILOSOPHY OF MIND (3-0-3)(Offered as Justified).** An examination of various solutions to the mind/body problem, the problem of other minds, as well as related mental concepts. Problems of action theory may be explored. PREREQ: PHIL 101 or PHIL 102 or PHIL 103.

**PHIL 311 NORMATIVE ETHICS (3-0-3)(Offered as Justified).** Examines views and issues in normative ethics, such as utilitarianism, egalitarianism, libertarianism, Kantianism, virtue theory, rights, fairness, desert, and causing versus allowing harm. May include the application of these views and issues to the political domain. PREREQ: PHIL 101 or PHIL 102 or PHIL 103.

**PHIL 312 META-ETHICS (3-0-3)(Offered as Justified).** Examines views and issues in meta-ethics, such as naturalism, non-naturalism, non-cognitivism, error theory, moral epistemology, moral disagreement, moral motivation, and reasons for action. PREREQ: PHIL 101 or PHIL 102 or PHIL 103.

**PHIL 313 ANALYTIC PHILOSOPHY (3-0-3)(Offered as Justified).** An investigation of major themes in Anglo-American philosophy during the twentieth century. PREREQ: PHIL 101 or PHIL 102 or PHIL 103.

**PHIL 315 PHENOMENOLOGY AND EXISTENTIALISM (3-0-3)(Offered as Justified).** An exploration of the nature of conscious experience and the place of dread and choice in human existence, with emphasis on selected figures in the tradition of European philosophy established by Kierkegaard and Husserl. PREREQ: PHIL 101 or PHIL 102 or PHIL 103.

**PHIL 316 PHILOSOPHY AND CRITICAL THEORY (3-0-3)(F/S).** Presents the rich philosophical context of critical theory, which comprises a variety of critiques that seek to understand and alter our social practices and lived realities, and which presupposes and refashions ideas developed primarily in late modern and contemporary western philosophy. Topics typically covered include power and knowledge, democracy and enlightenment, faith and intersubjectivity, historical materialism and humanism, racial and sexual difference, globalism and post-colonialism.

**PHIL 321 EASTERN PHILOSOPHY (3-0-3)(Offered as Justified).** Philosophical teachings of great Eastern thinkers through a study of classical texts selected from traditions of Hinduism, Confucianism, Taoism, and Buddhism. PREREQ: Upper-division standing.

**PHIL 322 (WORLD 322) CONFUCIANISM IN CHINESE CULTURE (1-0-1)(S).** Introduction to the philosophy of Confucianism as the foundation of Chinese culture. Students will explore how Confucianism provided a framework for the development of traditional Chinese moral standards, family values, education, political philosophy, civil responsibility, and attitudes toward the natural world. May be taken for WORLD or PHIL credit, but not both.

**PHIL 327 ENVIRONMENTAL ETHICS (3-0-3)(Offered as Justified).** Examination of environmental problems from an ethical point of view. Topics include population control, pollution, animal liberation, the moral and legal rights of nature, and social ecology. PREREQ: Upper-division standing.

**PHIL 331 PHILOSOPHY OF RELIGION (3-0-3)(Offered as Justified).** Basic philosophical issues connected with religious belief such as the nature and existence of God, the problem of evil, miracles, and the significance of religious experience. PREREQ: PHIL 101 or PHIL 102 or PHIL 103.

**PHIL 333 METAPHYSICS (3-0-3)(F).** An investigation of basic problems about the nature of reality. Possible topics include personal identity, the nature of mind, freedom and determinism, and the problems of universals. PREREQ: PHIL 101 or PHIL 102 or PHIL 103.

**PHIL 335 EPISTEMOLOGY (3-0-3)(Offered as Justified).** An investigation of basic problems concerning knowledge and the justification of belief. Possible topics include attempts to define knowledge and related concepts, the problem of skepticism, and the problem of other minds. PREREQ: PHIL 101 or PHIL 102 or PHIL 103.

**PHIL 337 AESTHETICS (3-0-3)(Offered as Justified).** The philosophy of the fine arts covering such topics as the existence and nature of works of art, aesthetic experience, artistic creativity, the species of aesthetic value, and the nature of beauty. PREREQ: PHIL 101 or PHIL 102 or PHIL 103.

**PHIL 437 ADVANCED PHILOSOPHICAL TOPICS (3-0-3)(Offered as Justified).** Detailed examination of a small set of issues within a selected area of philosophy. May be repeated for credit. PREREQ: PHIL 209, PHIL 301, and PERM/INST.

**PHIL 441 (POLS 441) CLASSICAL POLITICAL THOUGHT (3-0-3)(F)(Odd years).** Development of political philosophy from Socrates to Machiavelli. May be taken for either POLS or PHIL credit, but not both. PREREQ: POLS 315; or one upper-division philosophy course or PERM/INST.

**PHIL 442 (POLS 442) MODERN POLITICAL THOUGHT (3-0-3)(S)(Even years).** Development of political thought since Machiavelli. May be taken for either POLS or PHIL credit, but not both. PREREQ: POLS 315; or one upper-division philosophy course or PERM/INST.

**PHIL 443 (POLS 443) CONTEMPORARY POLITICAL THOUGHT (3-0-3)(F)(Even years).** Major trends in political thought from the post-French Revolutionary era, which may include German idealism, historicism, existentialism, nihilism, and Marxism. May be taken for either POLS or PHIL credit, but not both. PREREQ: POLS 315; or one upper-division philosophy course or PERM/INST.

**PHIL 489 SENIOR RESEARCH (3-0-3)(F).** Directed research culminating in a writing sample, suitable for graduate school applications. PREREQ: Senior standing in philosophy major and PERM/CHAIR.

**PHIL 495 SENIOR COMPREHENSIVE ASSESSMENT (1-0-1)(F/S)(FF).** Capstone experience resulting in a portfolio of student work. PREREQ: Senior standing in philosophy major and PERM/INST.

## Department of Physics

College of Arts and Sciences

Multipurpose Classroom Facility, Room MP 420

(208) 426-3775 (phone)

(208) 426-4330 (fax)

physics@boisestate.edu (email)

<https://boisestate.edu/physics> (website)

*Chair and Professor:* C. B. Hanna. *Professors:* Folegea, Kim, Tenne. *Associate Professors:* Ferguson, Jackson, Macomb, Simmonds. *Assistant Professors:* Goulko, Mainali. *Lecturers:* Brennan, Jensen, Sup, Watkins. *Lab Instructor:* Webb.

### Degrees Offered

- Bachelor of Science in Physics, including optional emphases:
  - Applied Physics Emphasis
  - Astrophysics Emphasis
  - Biophysics Emphasis
  - Secondary Education Emphasis
- Minor in Physical Science Teaching Endorsement
- Minor in Physics
- Minor in Physics Teaching Endorsement

### Department Statement

Physics is the study of matter, motion, force, and energy—from the very small (quarks) to the very large (the universe), and every length scale in between, including the rich variety of phenomena we encounter in everyday life. Physics draws from and inspires developments in mathematics, and underlies the modern understanding (the “why”) of astronomy, chemistry, geophysics, engineering, and technology. During their studies, physics majors at Boise State University also have opportunities to do physics, by engaging in physics or astronomy research projects with faculty in the areas of nanoscience, biophysics, condensed-matter physics, and computational physics and astronomy. In addition to gaining a deeper understanding of how the world works, physics majors develop skills of observation, analysis, model-building, and problem-solving that lead to success in a broad variety of careers in industry, government, law, education, and the professions, such as law and medicine.

The Bachelor of Science (BS) degree in Physics at Boise State is built around a core of physics, science, mathematics, and humanities courses that provide students with a broad and balanced foundation for additional coursework in advanced or applied physics, or for interdisciplinary emphasis areas and for employment. The following optional emphases are offered for the BS Physics degree: Applied Physics (nanomaterials), Astrophysics, Biophysics (molecular and cellular), and Secondary Education (teaching).

### Degree Requirements

| Physics<br>Bachelor of Science  |         |
|---|---------|
| Course Number and Title   | Credits |
| University Foundations requirements indicated in bold. See page 48 for details and lists of approved courses.   |         |
| <b>UF 100</b> Foundations of Intellectual Life  | 3       |
| <b>UF 200</b> Foundations of Ethics and Diversity   | 3       |
| <b>FW ENGL 101</b> Writing and Rhetoric I   | 3       |
| <b>FW ENGL 102</b> Writing and Rhetoric II  | 3       |
| <b>FC</b> Foundations of Oral Communication (COMM 101 recommended)  | 3       |
| <b>FM MATH 170</b> Calculus I   | 4       |
| <b>FN CHEM 111, 111L</b> General Chemistry I & Lab  | 4       |
| <b>FN PHYS 211, 211L</b> Physics I with Calculus & Lab  | 5       |
| <b>FA</b> Foundations of Arts course  | 3       |
| <b>FH STEM-ED 220</b> Philosophical Perspectives on Science and Mathematics (Secondary Education Emphasis) or <b>FH</b> Foundations of Humanities course  | 3-4     |
| <b>FS ED-CIFS 201</b> Education, Schooling, and Society (Secondary Education Emphasis) or <b>FS</b> Foundations of Social Sciences course   | 3       |
| <b>FS</b> Foundations of Social Sciences course in a second field   | 3       |
| Choose one (1) courses from the following:<br>CS 111 Introduction to Programming<br>CS 117 C++ for Engineers<br>CS 121 Computer Science I<br>CS 133 Foundations of Data Science<br>MSE 150 Computational Tools for Materials Science  | 3-4     |
| MATH 175 Calculus II  | 4       |
| MATH 275 Multivariable and Vector Calculus  | 4       |
| MATH 333 Differential Equations with Matrix Theory  | 4       |
| PHYS 212, 212L Physics II with Calculus & Lab   | 5       |
| PHYS 301 Analog and Digital Electronics   | 4       |
| PHYS 309, 309L Introductory Quantum Physics with Applications & Lab   | 4       |
| PHYS 311 Introductory Relativistic Physics with Applications  | 3       |
| PHYS 325 Scientific Computing   | 4       |
| PHYS 330, 330L Optics and Lab or<br>PHYS 382 Electrodynamics  | 4       |
| PHYS 341 Classical Mechanics  | 4       |
| PHYS 381 Electromagnetic Theory   | 4       |
| PHYS 432 Thermal Physics  | 4       |
| <b>FF PHYS 499</b> Physics Seminar  | 1       |
| In addition, complete either the following coursework to graduate with a BS in Physics (without an emphasis) or complete the courses listed under one of the emphases below to graduate with a BS in Physics with an emphasis. Non-emphasis must choose PHYS 382 Electrodynamics from above |         |
| MATH 301 Introduction to Linear Algebra   | 3       |
| PHYS 412 Intermediate Quantum Mechanics   | 4       |
| Choose one (1) courses from the following:<br>PHYS 307 Introduction to Biophysics<br>PHYS 330, 330L Optics and Lab<br>PHYS 405 Astrophysics<br>PHYS 415 Solid State Physics<br>PHYS 423 Physical Methods of Materials Characterization  | 3-4     |

|   |       |
|---|-------|
| Electives to total 120 credits  | 15-18 |
| Total   | 120   |
| <b>Applied Physics Emphasis</b>   |       |
| MSE 245, 245L Intro to Materials Science & Engineering & Lab  | 4     |
| MSE 246 Materials for Society   | 3     |
| MSE 308 Thermodynamics of Materials or<br>MSE 410 Electrical Properties of Materials                          | 3     |
| PHYS 415 Solid State Physics  | 3     |
| PHYS 423 Physical Methods of Materials Characterization   | 3     |
| Electives to total 120 credits  | 10-12 |
| Total   | 120   |
| <b>Astrophysics Emphasis</b>  |       |
| MATH 361 Probability and Statistics I   | 3     |
| GEOS 422 Data Analysis and Geostatistics or<br>MATH 471 Data Analysis or<br>MATH 472 Computational Statistics | 3     |
| PHYS 205 Stellar Astronomy  | 4     |
| PHYS 305 Data Science for Astrophysics  | 3     |
| PHYS 405 Astrophysics   | 3     |
| PHYS 406 Cosmology  | 3     |
| Electives to total 120 credits  | 12-14 |
| Total   | 120   |
| <b>Biophysics Emphasis</b>  |       |
| BIOL 191 Biology I: Intro to Cell and Molecular Biology   | 4     |
| CHEM 112, 112L General Chemistry II & Lab   | 4     |
| PHYS 307 Introduction to Biophysics   | 3     |
| PHYS 404 Molecular and Cellular Biophysics  | 4     |
| Electives to total 120 credits  | 11-12 |
| Total   | 120   |
| <b>Secondary Education Emphasis</b>   |       |
| STEM-ED 101 Step 1: Inquiry Approaches to Teaching  | 1     |
| STEM-ED 102 Step 2: Inquiry-based Lesson Design   | 1     |
| STEM-ED 210 Knowing & Learning in Math & Science  | 3     |
| STEM-ED 310 Classroom Interactions  | 3     |
| STEM-ED 350 Research Methods  | 3     |
| STEM-ED 410 Project-based Instruction   | 3     |
| STEM-ED 480 Apprentice Teaching   | 6     |
| PHYS 104 Life in the Universe or<br>PHYS 105 Stars and Cosmology  | 4     |
| Electives to total 120 credits  | 2-4   |
| Total   | 120   |

| Physics Minor   |                |
|---|----------------|
| <i>Course Number and Title</i>  | <i>Credits</i> |
| PHYS 211, 211L Physics I with Calculus & Lab (Math or other prerequisite)   | 5              |
| PHYS 212, 212L Physics II with Calculus & Lab   | 5              |
| PHYS 309, 309L Introductory Quantum Physics & Lab (Math or other prerequisite)  | 4              |
| Upper-division physics courses<br>Excluding PHYS 395, PHYS 495, PHYS 499, independent study (496), and special topics (397, 497). | 6              |
| Total   | 20             |

| Physical Science Teaching Endorsement Minor   |                |
|---|----------------|
| <i>Course Number and Title</i>  | <i>Credits</i> |
| CHEM 111, 111L-112, 112L General Chemistry I & II & Labs  | 8              |
| CHEM 211, 212 Analytical Chemistry I & Lab  | 5              |
| PHYS 104 Life in the Universe or<br>PHYS 105 Stars and Cosmology  | 4              |
| PHYS 111-112 General Physics I & II   | 8              |
| Total   | 25             |
| This Teaching Endorsement Minor does not certify you to teach. For more information on becoming a teacher please contact the Office of Teacher Education. |                |

| Physics Teaching Endorsement Minor  |                |
|---|----------------|
| <i>Course Number and Title</i>  | <i>Credits</i> |
| PHYS 211, 211L Physics I with Calculus & Lab  | 5              |
| PHYS 212, 212L Physics II with Calculus & Lab   | 5              |
| PHYS 301 Analog and Digital Electronics or<br>PHYS 325 Scientific Computing or<br>PHYS 330, 330L Optics and Lab   | 4              |
| PHYS 309, 309L Introductory Quantum Physics & Lab   | 4              |
| PHYS 311 Introductory Relativistic Physics with<br>Applications or<br>PHYS 432 Thermal Physics  | 3-4            |
| Total   | 21-22          |
| This Teaching Endorsement Minor does not certify you to teach. For more information on becoming a teacher please contact the Office of Teacher Education. |                |

## Course Offerings

### PHYS—Physics

**PHYSICS LABORATORY FEES: A \$68.50 laboratory fee is charged to all students enrolling in a physics course with an associated laboratory or a physics laboratory.**

#### Lower Division

**PHYS 101 INTRODUCTION TO PHYSICS (3-2-4)(F, S, SU)(FN).** A broad survey of basic physics concepts and principles including motion, energy, electricity, magnetism, light, relativity, atoms, fission and fusion. Some examples will be related to social applications. A one-semester core course that uses some basic algebra.

**PHYS 104 LIFE IN THE UNIVERSE (3-2-4)(F, S, SU)(FN).** Emphasis is on our solar system, the origin of chemical abundances, and astronomical requirements for the development of life; extra-solar planetary systems, and the search for life in the universe. Requires evening labs.

**PHYS 105 STARS AND COSMOLOGY (3-2-4)(F, S, SU)(FN).** An exploration of star formation and evolution, black holes, galaxies, and cosmology. Explores how the ideas of Albert Einstein, Stephen Hawking, and others form our understanding of the universe. Requires evening labs and/or planetarium visits.

**PHYS 106 RADIATION PHYSICS (2-0-2)(F/S).** Fundamental concepts involving electricity, magnetism, formation of electromagnetic radiation and radioactivity. Includes basic circuitry of x-ray machine and introduction to radiation dose. PREREQ: Acceptance into radiologic sciences program or PERM/INST.

**PHYS 111 GENERAL PHYSICS I (3-3-4)(F, S, SU)(FN).** Kinematics, forces and dynamics, conservation laws, waves, thermodynamics. Uses algebra and trigonometry, and includes one required three-hour lab per week. Recommended background: high school physics or PHYS 101. PREREQ: MATH 143 and MATH 144 or satisfactory placement score.

## PHYSICS

**PHYS 112 GENERAL PHYSICS II (3-3-4)(F, S, SU)(FN).** Electricity, magnetism, optics, and modern physics. Uses algebra and trigonometry, and includes one required three-hour lab per week. PREREQ: PHYS 111.

**PHYS 119 LABORATORY ONLY (0-V-1)(F/S).** For transfer students who need a laboratory experience to gain FN lab credit for a lecture-only PHYS course taken elsewhere but includes a weekly 2 or 3 hour lab at Boise State. PREREQ: PERM/INST.

**PHYS 125 PHYSICS SYMPOSIUM (1-0-1)(F).** Topics in current areas of student interest in physics and related disciplines, introduction to the physics department, degrees, and faculty, to physics degree requirements for graduation, and to jobs and graduate school. Intended for physics majors and prospective majors.

**PHYS 205 STELLAR ASTRONOMY (3-3-4)(S).** An exploration of the physics of star formation, stellar evolution, black holes, galaxies, large-scale structure of the universe, and cosmology. Requires evening labs. Credit cannot be given for both PHYS 105 and PHYS 205. PREREQ: PHYS 212.

**PHYS 211 PHYSICS I WITH CALCULUS (4-1-4)(F, S)(FN with PHYS 211L).** Kinematics, dynamics of particles, statics, energy, work, momentum, rotational motion, wave motion, and superposition. Recommended background: high school physics or PHYS 101. PREREQ: MATH 143 and MATH 144 or satisfactory placement score. COREQ: MATH 170, PHYS 211L.

**PHYS 211L PHYSICS I WITH CALCULUS LAB (0-3-1)(F, S, SU)(FN with PHYS 211).** Lab to be taken with PHYS 211. Basic experiments in kinematics, mechanics, and wave motion. COREQ: PHYS 211.

**PHYS 212 PHYSICS II WITH CALCULUS (4-1-4)(F, S, SU).** Heat and thermodynamics, electrostatics, fields, electric potential, electric current, simple circuits, magnetism, electromagnetic induction, electromagnetic waves, polarization, Maxwell's equations, Lorentz force law, diffraction, and geometrical optics. PREREQ: MATH 170, PHYS 211, PHYS 211L. COREQ: MATH 175, PHYS 212L.

**PHYS 212L PHYSICS II WITH CALCULUS LAB (0-3-1)(F, S, SU).** Lab to be taken concurrently with PHYS 212. Basic experiments in heat, electricity, magnetism, and optics. PREREQ: PHYS 211L. COREQ: PHYS 212.

**PHYS 295 RESEARCH IN PHYSICS (0-4 credits)(F, S).** Individual research project carried out by the student in collaboration with a supervising member of the physics faculty. Intended for freshmen or sophomores. May be repeated.

### Upper Division

**PHYS 301 ANALOG AND DIGITAL ELECTRONICS (3-3-4)(S).**

Introduction to electronic test instrumentation, discrete semiconductor devices, and their use in integrated circuits. Effective presentation and interpretation of technical data is stressed through written lab reports and oral communication projects. PREREQ: ENGL 102, PHYS 212, 212L.

**PHYS 305 DATA SCIENCE FOR ASTROPHYSICS (3-0-3)(S).**

Applications of statistical and computational techniques to analyze and draw conclusions from large astrophysics data sets. Case studies drawn from key discoveries in astrophysics. PREREQ: CS 133, MATH 361, PHYS 105 or PHYS 205, PHYS 212.

**PHYS 307 INTRODUCTION TO BIOPHYSICS (3-0-3)(F).** Application of physical principles and techniques to the study of biological systems. Stresses examples relevant to cellular and molecular biology and to biomedical research. PREREQ: MATH 160 or MATH 170, and PHYS 112 or PHYS 212 with labs.

**PHYS 309 INTRODUCTORY QUANTUM PHYSICS WITH**

**APPLICATIONS (3-0-3)(F, S).** An introduction to modern physics, focused on quantum physics, with examples from atomic, molecular, and statistical physics, engineering, solid-state physics, and nanotechnology. PREREQ: MATH 175, PHYS 212. COREQ: MATH 275, PHYS 309L.

**PHYS 309L INTRODUCTORY QUANTUM PHYSICS LAB (0-3-1)(F, S).**

Lab to be taken concurrently with PHYS 309. Hands-on experiments and

computer simulations applying the principles of modern physics. PREREQ: PHYS 212L; COREQ: MATH 275, PHYS 309.

**PHYS 311 INTRODUCTORY RELATIVISTIC PHYSICS WITH APPLICATIONS (3-0-3)(S).** A modern physics course to follow PHYS 309, focused on introductory relativity, nuclear physics, elementary particles, and cosmology. PREREQ: MATH 275, PHYS 309.

**PHYS 325 SCIENTIFIC COMPUTING (3-3-4)(F).** Methods and practices of computing and computer modeling, with an emphasis on problems in science and engineering. Topics include model building, simulation of complex systems, numerical solutions of systems of differential equations, and scientific visualization. PREREQ: CS 111 or CS 117 or CS 121 or CS 133 or MSE 150. PREREQ or COREQ: MATH 275 and PHYS 309.

**PHYS 330 OPTICS (3-0-3)(S).** Geometrical and physical optics, including lenses, fiber optics, Fourier optics, polarization, interference, diffraction, lasers, and special topics. PREREQ: MATH 333 and either ECE 300 or PHYS 381. COREQ: PHYS 330L.

**PHYS 330L OPTICS LABORATORY (0-3-1)(S).** Laboratory to be taken concurrently with PHYS 330. Experiments in optics, including optical systems, thick lenses, interference, diffraction, Fourier optics, image processing, and special topics. COREQ: PHYS 330.

**PHYS 341 CLASSICAL MECHANICS (4-0-4)(S).** An advanced treatment of classical mechanics using the methods of Lagrange and Hamilton, with the aid of vector calculus and differential equations. PREREQ: MATH 275, MATH 333 and PHYS 211.

**PHYS 381 ELECTROMAGNETIC THEORY (4-0-4)(F).** Electrostatic and magnetostatic fields, including potentials, Gauss's law, solutions of Laplace's equation, dielectrics, vector potentials, magnetization, and an introduction to Maxwell's equations. PREREQ: MATH 275, MATH 333, PHYS 212.

**PHYS 382 ELECTRODYNAMICS (4-0-4)(S).** Application of Maxwell's equations to electrodynamics, including the stress tensor, wave equation, guided waves, radiation, and special relativity. PREREQ: PHYS 381.

**PHYS 395 RESEARCH IN PHYSICS (0-4 credits)(F, S).** Individual research project carried out by the student in collaboration with a supervising member of the physics faculty. Intended for juniors or seniors. May be repeated.

**PHYS 404 MOLECULAR AND CELLULAR BIOPHYSICS (4-0-4)(S).**

Advanced introduction to biophysical concepts and methods, focused on developing an in-depth understanding of the functionality of biological systems at the molecular and cellular level. Includes biophysical properties of water and solutions, characterization of biomolecular interactions, biological relevance of the physical properties of biomolecules, role of physical interactions in driving the self-assembly and conformational changes of biomolecules, membrane transport, molecular and cellular motility, and biophysical aspects of cell function. PREREQ: BIOL 191, CHEM 112, PHYS 307, PHYS 309.

**PHYS 405 ASTROPHYSICS (3-0-3)(F).** Techniques and topics of modern astrophysics. Material is selected from the interaction of light with matter, solar system formation, main sequence star structure and evolution, degenerate stars and black holes, interstellar medium, galaxy formation and evolution. PREREQ: MATH 275, PHYS 105 or PHYS 205, PHYS 309.

**PHYS 406 COSMOLOGY (3-0-3)(S).** An overview of the large-scale structure and evolution of normal and dark matter. The key elements of observational cosmology including cosmic expansion, the microwave background radiation, and primordial nucleosynthesis. The early universe, inflation and the formation of structure. PREREQ: MATH 275, PHYS 105 or PHYS 205, PHYS 309, PHYS 311.

**PHYS 412 INTERMEDIATE QUANTUM MECHANICS (4-0-4)(F).**

Fundamentals, including properties and solutions of the Schrödinger equation, operators, angular momentum, electron spin, identical particles, perturbations, and variational principle. Applications, such as tunneling, orbitals, magnetic resonance, and nanoscale effects. PREREQ: MATH 275, MATH 301, MATH 333, PHYS 309.

**PHYS 415 SOLID STATE PHYSICS (3-0-3)(S).** Quantum physics applied to understanding the properties of materials, including semiconductors, metals, superconductors, and magnetic systems. PREREQ: MATH 275, PHYS 309.

**PHYS 422 ADVANCED TOPICS (1-4 credits)(On Demand).** Selected advanced topics from physics and applied physics, such as astrophysics, biophysics, device physics, magnetic materials, nanoscale physics, or medical physics. May be repeated for credit. PREREQ: Upper-division standing and PERM/INST.

**PHYS 423 PHYSICAL METHODS OF MATERIALS**

**CHARACTERIZATION (3-0-3)(F).** Physical principles and practical methods used in determining the structural, electronic, optical, and magnetic properties of materials. Optical, electron, and scanning microscopies, diffraction, surface analysis, optical spectroscopy, electrical transport, and magnetometry. PREREQ: MATH 275, PHYS 309 or PERM/INST.

**PHYS 432 THERMAL PHYSICS (4-0-4)(F).** Foundations and applications of thermodynamics and statistical mechanics, including temperature, entropy, heat capacity, chemical potential, and free energies. Applications to gasses, paramagnets, chemical systems, electrons, photons, phonons, and superfluids. PREREQ: CHEM 111, MATH 275, PHYS 309.

**PHYS 436 SOFT MATTER (3-0-3)(S).** Introduction to the physical principles underlying the properties and behaviors of soft matter, including polymers, gels, colloids, and liquid crystals. Examples of soft matter include glues, paints, soaps, rubber, foams, gelatin, milk, and most materials of biological origin. Recommended preparation: PHYS 309. PREREQ: MATH 275, PHYS 212, and either CHEM 322 or MSE 308 or PHYS 432.

**PHYS 481 ADVANCED PHYSICS LAB (1-6-3)(S).** An advanced laboratory course designed to acquaint students with the concepts of modern physics, laboratory techniques, and measurements. PREREQ: PHYS 309L.

**PHYS 482 SENIOR PROJECT (0-6-2)(S).** 1 or 2 credits depending on the project. Elective. A sophisticated library or laboratory project in some area of physics. PREREQ: PHYS 481.

**PHYS 495 RESEARCH IN PHYSICS (0-4 credits)(F, S).** Individual research project carried out by the student in collaboration with a supervising member of the physics faculty. Intended for seniors. May be repeated.

**PHYS 499 PHYSICS SENIOR SEMINARS (1-0-1)(S)(FF).** A culminating experience for physics majors. Provides practice in the search and critical assessment of research articles and current trends in physics. Communications of results for variety of audiences is emphasized. PREREQ: FC completed, Physics Major, Senior status, PERM/INST.

## Political Science Program

*School of Public Service*

Environmental Research Building 5146A

(208) 426-1458 (phone)

(208) 426-4370 (fax)

pols@boisestate.edu (email)

<https://www.boisestate.edu/sps-politicalscience/> (website)

*Chair and Associate Professor:* Lori Hausegger. *Professors:* Burkhart, Wampler, Yenor. *Associate Professor:* Allen. *Assistant Professors:* Bellinger, Hunt, Kettler, Lyons, Utych, VanDusky-Allen. *Professor Emeritus:* Kinney, Moncrief, Raymond. *Clinical Professors:* Castellano, Gardner.

### Degrees Offered

- Bachelor of Science in Political Science
  - American Government and Public Policy Emphasis
  - International Relations and Comparative Politics Emphasis
  - Public Law and Political Philosophy Emphasis
- Bachelor of Science in Political Science, Social Science, Secondary Education
- Minor in Canadian Studies
- Minor in Political Communication
- Minor in Political Management
- Minor in Political Science

### Program Statement

The program offers courses leading to a BS degree in political science, with a choice of specified areas of emphasis. The program also provides courses in support of the social science, secondary education option for teachers, as well as a minor in political science.

Political science majors at Boise State University have an opportunity to enjoy a unique and challenging educational experience. The university's location in the capital city provides many resources not readily available at other schools, including such resources as the state law library, state archives, and state and federal government offices.

Majors in political science are prepared for further study at the graduate level or for a variety of careers. Many of our students become teachers or lawyers. Others work for large corporations as public-affairs officers or for federal, state, or local governments in numerous capacities. Some become reporters, lobbyists, or campaign managers; some have been elected to public office.

For information on the program, advising and curriculum, faculty, internships, scholarships, and student organizations, please consult <https://www.boisestate.edu/sps-politicalscience/>.

### Political Science Internship Program

Participation in the internship program is strongly encouraged for political science majors. Students may serve as interns with offices such as: the Governor, the Attorney General, the Secretary of State and the Lieutenant Governor; as well as with lobbyists, state institutions, interest groups, city government, state legislature, U.S. Congress election campaigns and organizations. In addition to providing valuable work experience, students may earn three credits toward their upper-division political science elective courses. Interns are also placed with local governments and the public affairs offices of major corporations.

### Professional Development Credits

The program supports professional development credits for courses that do not count toward a BS degree and have a pass/fail grade attached. Attendance at such professional development courses is mandatory.

# POLITICAL SCIENCE

## Degree Requirements

| Political Science<br>Bachelor of Science  |                |
|---|----------------|
| <i>Course Number and Title</i>  | <i>Credits</i> |
| University Foundations requirements indicated in bold. See page 48 for details and lists of approved courses.   |                |
| <b>UF 100</b> Foundations of Intellectual Life  | 3              |
| <b>UF 200</b> Foundations of Ethics and Diversity   | 3              |
| <b>FW ENGL 101</b> Writing and Rhetoric I   | 3              |
| <b>FW ENGL 102</b> Writing and Rhetoric II  | 3              |
| <b>FC</b> Foundations of Oral Communication   | 3              |
| <b>FM</b> Foundations of Mathematics course   | 3-4            |
| <b>FN</b> Foundations of Natural, Physical, & Applied Sciences course with lab  | 4              |
| <b>FN</b> Foundations of Natural, Physical, & Applied Sciences course in a second field   | 3-4            |
| <b>FA</b> Foundations of Arts course  | 3              |
| <b>FH</b> Foundations of Humanities course  | 3-4            |
| <b>FS POLS 101</b> American National Government   | 3              |
| <b>FS</b> Foundations of Social Sciences course in a second field   | 3              |
| POLS 200 Intro to Politics: American Politics & Political Philosophy  | 3              |
| POLS 205 Intro to Politics: Comparative Politics & International Relations  | 3              |
| POLS 298 Introduction to Political Inquiry  | 3              |
| POLS 398 Advanced Political Science Methods   | 3              |
| <b>FF</b> POLS 499 Capstone Research Seminar  | 3              |
| SPS 200 Problem Solving in Public Service   | 3              |
| SPS 240 Data in Public Service  | 3              |
| SPS 301 Engagement and Empathy in Public Service  | 3              |
| Two (2) of the following:<br>POLS 300 American Political Institutions & Behavior<br>POLS 305 Comparative Politics: Theories, Methods, and Political Processes<br>POLS 306 International Relations: Actors, Interactions, and Methods<br>POLS 315 Political Philosophy | 6              |
| Upper-division political science elective courses.<br>(A student may use no more than three (3) credits of POLS 493 and three (3) credits of POLS 494. )  | 9              |
| Area of Emphasis Requirements<br>A minimum of 12 credits must be completed in the student's chosen area of emphasis (see specific courses below).   |                |

| American Government and Public Policy Emphasis  |       |
|---|-------|
| POLS 400 Women and Politics<br>POLS 401 Political Parties and Interest Groups<br>POLS 402 Campaigns and Elections<br>POLS 404 Urban Politics<br>POLS 405 American Chief Executive<br>POLS 406 Legislative Behavior<br>POLS 407 American Policy Process<br>POLS 409 Environmental Politics<br>POLS 410 Public Finance<br>POLS 411 Applied Strategic Communication<br>POLS 412 Ethics in Public Policy<br>POLS 413 Organizational Theory & Bureaucratic Structure<br>POLS 414 Comparative State Politics<br>POLS 415 Seminar in American Political Institutions<br>POLS 416 Seminar in American Political Behavior<br>POLS 417 Political Psychology<br>POLS 418 Public Opinion<br>POLS 419 Political Communication<br>POLS 438 Applied Campaign Management<br>POLS 440 American Political Thought<br>POLS 446 Constitutional Law<br>POLS 447 Civil Liberties<br>POLS 448 Women and the Law<br>POLS 449 Law, Politics, and Society | 12    |
| Upper-division electives to total 40 credits  | 4     |
| Electives to total 120 credits  | 25-28 |
| Total   | 120   |
| International Relations and Comparative Politics Emphasis   |       |
| POLS 420 Comparative Foreign Policy<br>POLS 421 International Law and Organization<br>POLS 422 Politics in Russia and Eastern Europe<br>POLS 423 Latin American Politics<br>POLS 424 Canadian Politics<br>POLS 425 Politics in Asia<br>POLS 426 European Politics<br>POLS 427 Politics of Africa<br>POLS 428 Seminar in Contemporary Comparative Politics<br>POLS 429 International Political Economy<br>POLS 430 US Foreign Policy<br>POLS 431 Seminar in Contemporary International Relations<br>POLS 432 Civil War and Terrorism<br>POLS 434 Environmental Security<br>POLS 435 Global Democracy<br>POLS 436 Oil, Development, and Democracy<br>POLS 445 International Trade and Investment Law  | 12    |
| Upper-division electives to total 40 credits  | 4     |
| Electives to total 120 credits  | 25-28 |
| Total   | 120   |
| Public Law and Political Philosophy Emphasis  |       |
| POLS 440 American Political Thought<br>POLS 441 Classical Political Thought<br>POLS 442 Modern Political Thought<br>POLS 443 Contemporary Political Thought<br>POLS 445 International Trade and Investment Law<br>POLS 446 Constitutional Law<br>POLS 447 Civil Liberties<br>POLS 448 Women and the Law<br>POLS 449 Law, Politics, and Society<br>POLS 451 Seminar in Judicial Politics<br>POLS 452 Seminar in Political Philosophy   | 12    |
| Upper-division electives to total 40 credits  | 4     |
| Electives to total 120 credits  | 25-28 |
| Total   | 120   |



The social science, secondary education emphasis programs are cooperative, multidisciplinary programs involving the Departments of Economics, History, Political Science, and Sociology. Each of these departments, except history, provides a major emphasis within the social science, secondary education emphasis. Students choosing this emphasis must:

- Complete a minimum of 27 credits in political science.
- Complete a minimum of 21 credits in one of the above departments (other than political science) to satisfy graduation requirements. See the department listings for each of these departments for additional information.
- Complete six credits in U.S. history, six credits of American government, and three credits of comparative government for certification requirements.
- Meet the requirements and standards for admission to teacher education, which are described fully under the Department of Curriculum, Instruction, and Foundational Studies or at <https://www.boisestate.edu/education-teachered/>. Students are expected to meet all knowledge, skill, and dispositional requirements for continued enrollment in the program.
- Keep informed of the requirements and standards for certification, including the successful completion of the Praxis II examinations in their endorsement area(s). For information on the Praxis II examination, please consult with your advisor in the Department of Political Science.

This program is designed to assist students in developing the knowledge, skills, and dispositions essential for success in teaching American government in secondary schools. Coursework combines content knowledge, theories of learning and human development, study of curriculum, and methodology. The program is grounded in the conceptual framework of the Professional Educator. Professional educators and professional educators adjust their teaching approaches and learning environment to the needs and backgrounds of their students. Work toward meeting the Idaho Beginning Teachers Standards necessary for state certification includes traditional coursework, a variety of teaching experiences, and successful completion of the pertinent Praxis examinations. The candidate best prepared to apply to this program will have completed or be in the process of completing most of their political science and other social science coursework, especially the courses most important for being successful on the Praxis examination. Candidates who successfully complete this program are eligible for recommendation for state certification.

| Political Science, Social Science, Secondary Education Emphasis Bachelor of Science                           |         |
|---|---------|
| Course Number and Title   | Credits |
| University Foundations requirements indicated in bold. See page 48 for details and lists of approved courses. |         |
| <b>UF 100</b> Foundations of Intellectual Life  | 3       |
| <b>UF 200</b> Foundations of Ethics and Diversity   | 3       |
| <b>FW ENGL 101</b> Writing and Rhetoric I   | 3       |
| <b>FW ENGL 102</b> Writing and Rhetoric II  | 3       |
| <b>FC</b> Foundations of Oral Communication   | 3       |
| <b>FM</b> Foundations of Mathematics course   | 3-4     |
| <b>FN</b> Foundations of Natural, Physical, & Applied Sciences course with lab                                | 4       |
| <b>FN</b> Foundations of Natural, Physical, & Applied Sciences course in a second field                       | 3-4     |
| <b>FA</b> Foundations of Arts course  | 3       |
| <b>FH</b> Foundations of Humanities course  | 3-4     |
| <b>FS ED-CIFS 201</b> Education, Schooling, and Society   | 3       |
| <b>FS POLS 101</b> American National Government   | 3       |
| <b>EDTECH 202</b> Teaching and Learning in a Digital Age  | 3       |

|   |            |
|---|------------|
| ED-CIFS 301* Teaching Experience I  | 2          |
| ED-CIFS 302* Learning and Instruction   | 4          |
| <b>FF ED-CIFS 400</b> Constructing a Professional Portfolio   | 1          |
| ED-CIFS 401* Professional Year — Teaching Experience II   | 3          |
| ED-CIFS 405* Teaching Secondary Social Studies  | 3          |
| ED-ESP 350* Teaching Students with Exceptional Needs at the Secondary Level   | 3          |
| ED-LLC 444* Content Literacy for Secondary Students   | 3          |
| ED-CIFS 485* Professional Year-Senior High Teaching Experience III  | 14         |
| *You must apply for admission to secondary teacher education to enroll in these upper-division education courses. Completion of all requirements for graduation with a secondary education option may require more than 120 credit hours. See Department of Curriculum, Instruction, and Foundational Studies for more information. |            |
| HIST 111, 112 United States History I, II   | 6          |
| POLS 200 Intro to Politics: American Politics & Political Philosophy  | 3          |
| POLS 205 Intro to Politics: Comparative Politics & International Relations  | 3          |
| POLS 300 American Political Institutions and Behavior   | 3          |
| Choose one (1) of the following:<br>POLS 305 Comparative Politics: Theories, Methods, and Political Processes<br>POLS 306 International Relations: Actors, Interactions, and Methods  | 3          |
| POLS 414 Comparative State Politics   | 3          |
| Choose three (3) of the following:<br>POLS 404 Urban Politics<br>POLS 405 American Chief Executive<br>POLS 406 Legislative Behavior<br>POLS 407 American Policy Process<br>POLS 446 Constitutional Law<br>POLS 447 Civil Liberties  | 9          |
| Social science field other than political science (History will need only 15 additional credits over those already required, Economics and Sociology will require 21 credits)   | 15-21      |
| Electives to total 128 credits  | 0-5        |
| <b>Total</b>  | <b>123</b> |

| American Government/Political Science Teaching Endorsement  |           |
|---|-----------|
| Course Number and Title   | Credits   |
| HIST 111, 112 United States History I, II   | 6         |
| POLS 101 American National Government   | 3         |
| POLS 200 Intro to Politics: American Politics & Political Philosophy  | 3         |
| POLS 205 Intro to Politics: Comparative Politics & International Relations  | 3         |
| POLS 300 American Political Institutions and Behavior   | 3         |
| POLS 404 Urban Politics   | 3         |
| POLS 414 Comparative State Politics   | 3         |
| <b>Total</b>  | <b>24</b> |
| Additional suggested courses: POLS 405, POLS 406, POLS 446, POLS 447. See Department of Curriculum, Instruction, and Foundational Studies for more information. |           |

## POLITICAL SCIENCE

The Canadian studies minor is designed to complement any university major. The program is interdisciplinary in its approach and at the same time permits students to pursue their interest areas in Canadian studies. Students in business, health, education, the liberal arts, and the social sciences are encouraged to pursue the program. Upon successful completion of the 18 credit hours, students receive a certificate of completion from the Canadian government.

| Canadian Studies Minor  |                |
|---|----------------|
| <i>Course Number and Title</i>  | <i>Credits</i> |
| CANSTD 301 Investigating Canada: A Preliminary Survey   | 3              |
| CANSTD 302 Controversial Issues in Contemporary Canada  | 3              |
| Interdisciplinary courses chosen from:<br>ANTH 307 Anthropology of Native North America<br>ANTH 312 Prehistory of North America<br>CANSTD 294, 494 Workshops in Canadian Studies<br>CANSTD 197, 297, 397, 497 Special Topics Canadian Studies<br>FREN 101 Elementary French I<br>FREN 485 The Francophone World Today<br>POLS 424 Canadian Politics | 12             |
| Total   | 18             |

| Political Communication Minor  |                |
|--|----------------|
| <i>Course Number and Title</i>   | <i>Credits</i> |
| MEDIA 201 Introduction to Medias   | 3              |
| JOUR 301 Reporting and News Writing  | 3              |
| POLS 419 Political Communication   | 3              |
| SPS 301 Engagement and Empathy in Public Service   | 3              |
| Complete 9 credits from the following course list. Select at least one course from Communication and one course from Political Science.<br><br>Note: Media Arts majors must complete 6 credits from the Political Science list and Political Science majors must complete 6 credits from the Communication list.<br><br>Communication:<br>COMM 112 Reasoned Discourse<br>COMM 332 Contemporary Public Communication<br>COMM 493 Internship<br>COMM 494 Workshop<br>JOUR 352 Reporting Public Affairs<br>MEDIA 301 Multimedia Storytelling<br>MEDIA 452 Media and Democracy<br><br>Political Science:<br>POLS 401 Political Parties and Interest Groups<br>POLS 402 Campaigns and Elections<br>POLS 411 Applied Strategic Communication<br>POLS 416 Seminar in American Political Behavior<br>POLS 417 Political Psychology<br>POLS 418 Public Opinion<br>POLS 438 Applied Campaign Management<br>POLS 493 Internship<br>POLS 494 Workshop<br><br>A student is limited to three (3) credits of internship (493) or workshop (494). These credits must be attained with support of an academic advisor and permission of the program director. | 9              |
| Total  | 21             |

| Political Management Minor   |                |
|--|----------------|
| <i>Course Number and Title</i>   | <i>Credits</i> |
| SPS 301 Engagement and Empathy in Public Service   | 3              |
| POLS 402 Campaigns and Elections   | 3              |
| POLS 411 Applied Strategic Communication   | 3              |
| POLS 419 Political Communication   | 3              |
| POLS 438 Applied Campaign Management   | 3              |
| POLS 293/493 Internship<br>A student must take a 3-credit internship directly related to the focus of the minor and that is subject to the approval of the minor program director. | 3              |
| Total  | 18             |

For students who wish to major in another field, the Department of Political Science offers a minor in political science. Students must complete 21 credits in political science in addition to the requirements for their major. Students are required to take 3 lower-division credits and 18 upper-division credits from the following course offerings.

| Political Science Minor  |                |
|--|----------------|
| <i>Course Number and Title</i>   | <i>Credits</i> |
| POLS 200 Intro to Politics: American Politics & Political Philosophy   | 3              |
| POLS 205 Intro to Politics: Comparative Politics & International Relations   | 3              |
| Two (2) of the following:<br>POLS 300 American Political Institutions and Behavior<br>POLS 305 Comparative Politics: Theories, Methods, & Political Processes<br>POLS 306 Intl Relations: Actors, Interactions, & Methods<br>POLS 315 Political Philosophy       | 6              |
| Upper-division political science courses except: POLS 494, POLS 496 or POLS 499. Only 3 credits of POLS 493 and POLS 497 are allowed.<br>(It is recommended that students consult with a political science advisor when selecting their upper-division courses.) | 9              |
| Total  | 21             |

### Course Offerings

#### CANSTD—Canadian Studies

**CANSTD 301 INVESTIGATING CANADA: A PRELIMINARY SURVEY (3-0-3)(F/S).** Examines the development of a Canadian national identity and role in the world. An interdisciplinary approach will be used with comparison to the United States.

**CANSTD 302 CONTROVERSIAL ISSUES IN CONTEMPORARY CANADA (3-0-3)(F/S).** Analyzes a range of controversial issues in contemporary Canada. Topics will vary but may include relations with the United States, immigration and multiculturalism, oil resources and environment, marijuana use, health care, and issues related to Quebec and Indigenous peoples. PREREQ: Sophomore standing or higher.

#### POLS—Political Science

##### Lower Division

**POLS 101 AMERICAN NATIONAL GOVERNMENT (3-0-3)(F/S)(FS).** Institutions and processes of the American political system, emphasizing social, ideological, and constitutional background.

**POLS 200 INTRODUCTION TO POLITICS: AMERICAN POLITICS AND POLITICAL PHILOSOPHY (3-0-3)(F/S).** Students will confront the key texts in the American Politics and Political Philosophy subfields of the political science discipline and react to the key debates addressed in those texts and propose solutions to the issues that are traditional to political analysis. PREREQ: ENGL 102.

**POLS 201 CURRENT EVENTS IN AMERICAN POLITICS (3-0-3)(F/S)(FS).** Examines a current issue in American politics through the lens of political science research. Compares analysis of current topics from the media to political science approaches. Consult current class schedule for specific selections offered each term. May be repeated for credit. PREREQ: ENGL 102 or PERM/INST.

**POLS 202 CURRENT EVENTS IN GLOBAL POLITICS (3-0-3)(F/S)(FS).** Examines a current issue in global politics through the lens of political science research. Compares analysis of current topics from the media to political science approaches. Consult current class schedule for specific selections offered each term. May be repeated for credit. PREREQ: ENGL 102 or PERM/INST.

**POLS 203 POLITICAL SCIENCE IN POPULAR MEDIA (3-0-3)(F/S)(FS).** Examines the field of political science and politics through the lens of popular media. Consult current class schedule for specific selections offered each term. PREREQ: ENGL 102 or PERM/INST.

**POLS 205 INTRODUCTION TO POLITICS: COMPARATIVE POLITICS AND INTERNATIONAL RELATIONS (3-0-3)(F/S).** Students will confront the key texts in the Comparative Politics and International Relations subfields of the political science discipline and react to the key debates addressed in those texts and propose solutions to the issues that are traditional to political analysis. PREREQ: ENGL 102.

**POLS 298 INTRODUCTION TO POLITICAL INQUIRY (3-0-3)(F/S/SU).** Techniques of political science inquiry, behavioral and attitudinal, using data analysis and introductory statistics.

#### Upper Division

**POLS 300 AMERICAN POLITICAL INSTITUTIONS AND BEHAVIOR (3-0-3)(F/S).** Examination of institutions, political culture, and political processes throughout the American regime. PREREQ: ENGL 102, POLS 200 or PERM/INST.

**POLS 305 COMPARATIVE POLITICS: THEORIES, METHODS, AND POLITICAL PROCESSES (3-0-3)(F/S).** Cross-national analysis of the structure and functioning of various types of political systems, with special emphasis on the problem of political change. PREREQ: ENGL 102, POLS 205; or Global Studies major, GLOBAL 200, or PERM/INST.

**POLS 306 INTERNATIONAL RELATIONS: ACTORS, INTERACTIONS, AND METHODS (3-0-3)(F/S).** Nature of relations among nations with particular reference to contemporary international issues. Analysis of the causes of war and efforts to promote peace. Study of national sovereignty and its relation to international cooperation. PREREQ: ENGL 102, POLS 205; or International Business major or minor, with junior standing or above; or Global Studies major, GLOBAL 200, or PERM/INST.

**POLS 315 POLITICAL PHILOSOPHY (3-0-3)(F/S).** Examination of the issues that define political thought, such as human nature, the best way of life, and the character of government institutions. PREREQ: ENGL 102, POLS 200 or PERM/INST.

**POLS 398 ADVANCED POLITICAL SCIENCE METHODS (3-0-3)(F/S/SU).** Examination of the discipline of political science, its central problems and unifying concerns using advanced research methods and computer applications. PREREQ: POLS 298 or PERM/INST.

**POLS 400 WOMEN AND POLITICS (3-0-3)(F/S).** Examines the role of gender in U.S. politics and explores the participation of women in politics as citizens, activists, and politicians. Also evaluates the underrepresentation of women in politics as well as analyzes the influence of women in office and their impact on public policy. PREREQ: POLS 300 or PERM/INST.

**POLS 401 POLITICAL PARTIES AND INTEREST GROUPS (3-0-3)(F/S).** Examines the function and importance of political parties and interest groups within the American political system. Considers the organization and activities of political parties and interest groups. PREREQ: POLS 300; or SPS 301 and Political Communication Minor or PERM/INST.

**POLS 402 CAMPAIGNS AND ELECTIONS (3-0-3)(F/S).** Examines the nature of electoral campaigns in the United States, including candidacy, the role of the media, how to run a campaign at the local level, and campaign finance issues. Also investigates the American electoral structure and voting behavior of the American electorate. PREREQ: POLS 300 or PERM/INST or SPS 301 and Political Communication minor or Political Management minor.

**POLS 404 URBAN POLITICS (3-0-3)(F/S).** An inquiry into different urban political systems and issues. Included are investigations into different governing arrangements in urban jurisdictions, including variations in electoral structures, types of governing bodies, and different government structures. Also included is an analysis of the role of political parties and interest groups, as well as urban issues such as transportation, waste disposal, service delivery, and financing. PREREQ: POLS 300 or URBAN 200 or PERM/INST.

**POLS 405 AMERICAN CHIEF EXECUTIVE (3-0-3)(F/S).** Consideration of the importance and involvement of the President in the political and policy-making processes and powers of the Presidency. Presidential campaigns and elections. The role of the President as policy-maker and administrator. The effect of the personality of a President on performance in office. PREREQ: POLS 300 or PERM/INST.

**POLS 406 LEGISLATIVE BEHAVIOR (3-0-3)(F/S).** Analysis of behavior of American state and national legislatures. Special consideration given to impact of constituencies, parties, interest groups, interpersonal relations, and other factors on legislators, and the role of the legislature in the American political system. PREREQ: POLS 300 or PERM/INST.

**POLS 407 AMERICAN POLICY PROCESS (3-0-3)(F/S).** The process through which policy is determined, implemented, and adjusted, with emphasis on the role of administrators. PREREQ: POLS 300 or PERM/INST.

**POLS 409 ENVIRONMENTAL POLITICS (3-0-3)(F/S).** This course explores the political context of natural resource and environmental issues and examines how various aspects of the political process influence natural resource and environmental policy outcomes. PREREQ: POLS 300 or URBAN 200 or Environmental Studies or Global Studies major or minor, junior standing or above or PERM/INST.

**POLS 410 (ECON 410) PUBLIC FINANCE (3-0-3)(S).** This course examines the roles of government and market systems in modern economies using the tools of economic analysis to evaluate major public policy decisions. The theory and rationale of government spending, taxing, and indebtedness will be examined, as well as the effects of government activity on resource allocation, income distribution, and economic efficiency. This course draws on the tools of microeconomic theory to develop analytical tools such as cost-benefit analysis to examine public spending projects. May be taken for either ECON or POLS credit, but not both. PREREQ: ECON 201 and ECON 202.

**POLS 411 APPLIED STRATEGIC COMMUNICATION (3-0-3)(F/S).** Applies skills related to strategic communication, which refers in general to the purposeful use of a range of communication techniques in order to achieve a goal or objective. Throughout the semester, leading practitioners in these areas will visit the class, sharing not only their experiences but insight into the skills needed for success in their area of expertise. PREREQ: upper-division standing

**POLS 412 ETHICS IN PUBLIC POLICY (3-0-3)(F/S).** Examines perspectives in moral philosophy used to assess the ethics of public policy decisions and implementation. PREREQ: POLS 300 and POLS 305 or POLS 306 or POLS 315.

**POLS 413 (SOC 487) ORGANIZATIONAL THEORY AND BUREAUCRATIC STRUCTURE (3-0-3)(F/S).** Sociopolitical analysis of theories and concepts of complex social organizations, their application to public administration, and the inter-relationship between political science and

## POLITICAL SCIENCE

sociological organizational theory. May be taken for POLS or SOC credit, but not for both. PREREQ: senior standing, PERM/INST.

**POLS 414 COMPARATIVE STATE POLITICS (3-0-3)(F/S).** A comparative analysis of U.S. state political systems, with emphasis on the variation among the states within the context of a federal political system. PREREQ: POLS 300 or PERM/INST.

**POLS 415 SEMINAR IN AMERICAN POLITICAL INSTITUTIONS (3-0-3)(F/S).** Intensive study of a particular issue or problem in American political institutions. Consult current class schedule for specific selections offered each term. May be repeated for credit. PREREQ: POLS 300 or PERM/INST.

**POLS 416 SEMINAR IN AMERICAN POLITICAL BEHAVIOR (3-0-3)(F/S).** Intensive study of a particular issue or problem in American political behavior. Consult current class schedule for specific selections offered each term. May be repeated for credit. PREREQ: POLS 300; or SPS 301 and Political Communication Minor or PERM/INST.

**POLS 417 POLITICAL PSYCHOLOGY (3-0-3)(F/S).** Introduces the various ways psychological research has been applied to politics, helping one understand how people think and feel about politics. Focuses both on how psychological characteristics of individuals influence their reaction to politics, and how political events impact individual level attitudes and psychological reactions. PREREQ: POLS 300; or SPS 301 and Political Communication Minor or PERM/INST.

**POLS 418 PUBLIC OPINION (3-0-3)(F/S).** Examines what the American public thinks about politics, where their political attitudes come from, and why they change over time. Explores why people hold issue positions, party affiliations, and voting preferences, as well as how these attitudes are shaped by current events, the media, campaigns, and other people. PREREQ: POLS 300; or SPS 301 and Political Communication Minor or PERM/INST.

**POLS 419 POLITICAL COMMUNICATION (3-0-3)(F/S).** Introduces how political information is communicated, focusing on how politicians and the media disseminate information, and how citizens respond to this information. Assists with understanding how the media, both in traditional and emerging formats, disseminates political information and the consequences of this information for average citizens. PREREQ: POLS 300; or SPS 301 and Political Communication Minor or PERM/INST.

**POLS 420 COMPARATIVE FOREIGN POLICY (3-0-3)(F/S).** Examination of foreign policies and objectives of world's major powers, analysis of contemporary international problems, and consideration of theories of international politics. PREREQ: POLS 306; or International Business or Global Studies major or minor, with junior standing or above or PERM/INST.

**POLS 421 INTERNATIONAL LAW AND ORGANIZATION (3-0-3)(F/S) (Alternate years).** The law of peace, international intercourse, war and threat of war, pacific settlement, and the principles and practice of international law. Historical background of international organizations, including the United Nations. PREREQ: POLS 306; or International Business or Global Studies major or minor, with junior standing or above or PERM/INST.

**POLS 422 POLITICS IN RUSSIA AND EASTERN EUROPE (3-0-3)(F/S).** A comparative analysis of the political systems of the former Soviet republics and Eastern Europe, with primary emphasis on Russia. Special attention will be given to the collapse of communism, the problem of democratization, and the transition from state to socialism to a market economy. PREREQ: POLS 305; or International Business or Global Studies major or minor, with junior standing or above or PERM/INST.

**POLS 423 LATIN AMERICAN POLITICS (3-0-3)(F/S).** Covers twentieth century Latin American politics, focusing on regime change, economic development, and political conflict. Particular attention is paid to Mexico, Cuba, and Brazil. The last section of the course focuses on current problems and political dilemmas in the region. PREREQ: POLS 305; or International Business or Global Studies major or minor or Latin American and Latino/a Studies minor, upper-division standing, or PERM/INST.

**POLS 424 CANADIAN POLITICS (3-0-3)(F/S).** An analysis of the Canadian political system, with emphasis on political culture, governmental institutions and processes, and selected public policy issues. PREREQ: POLS 305; or International Business or Global Studies major or minor, with junior standing or above, or PERM/INST.

**POLS 425 POLITICS IN ASIA (3-0-3)(F/S).** Political systems of selected nations in Asia. Patterns and problems of political development and modernization in the nations will be analyzed. PREREQ: POLS 305; or International Business or Global Studies major or minor, with junior standing or above, or PERM/INST.

**POLS 426 EUROPEAN POLITICS (3-0-3)(F/S).** Political Systems of selected industrialized European nations, including Great Britain, France, the German Federal Republic, and the countries of Scandinavia. Analysis of patterns of political culture, political interests, political power, and selected public policy issues. PREREQ: POLS 305; or International Business or Global Studies major or minor, with junior standing or above or PERM/INST.

**POLS 427 POLITICS OF AFRICA (3-0-3)(F/S)(Alternate years).** Political systems of selected nations in Africa. Patterns and problems of political development and modernization in the nations will be analyzed. PREREQ: POLS 305; or International Business or Global Studies major or minor, with junior standing or above or PERM/INST.

**POLS 428 SEMINAR IN CONTEMPORARY COMPARATIVE POLITICS (3-0-3)(F/S).** Intensive study of a particular issue or problem in comparative politics. Consult current class schedule for specific selections offered each term. May be repeated. PREREQ: POLS 305; or International Business or Global Studies major or minor, with junior standing or above or PERM/INST.

**POLS 429 INTERNATIONAL POLITICAL ECONOMY (3-0-3)(F/S).** Examines the relationship between international politics and international economics across different levels of analysis. Includes a discussion of the contending paradigms of international relations, as well as an analysis of the many relationships between/among different nation-state groupings within the world system. PREREQ: POLS 305 or POLS 306; or International Business or Global Studies major or minor, with junior standing or above or PERM/INST.

**POLS 430 UNITED STATES FOREIGN POLICY (3-0-3)(F/S)(Alternate years).** Development of diplomacy from the foundation of the republic to the present, with emphasis on emergence and continuance of United States as a world power; impact of domestic developments on formulation of foreign policies. PREREQ: POLS 306; or Global Studies major or minor, with junior standing or above, or PERM/INST.

**POLS 431 SEMINAR IN CONTEMPORARY INTERNATIONAL RELATIONS (3-0-3)(F/S).** Intensive study of a particular issue or problem in international relations. Consult current class schedule for specific selections offered each term. May be repeated. PREREQ: POLS 306; or Global Studies major or minor, with junior standing or above or PERM/INST.

**POLS 432 CIVIL WAR AND TERRORISM (3-0-3)(F/S).** Study of the theoretical and empirical causes of non-state actors using force against states and civilians in both domestic and international spheres. The course also examines the motivations for other interested parties to intervene into conflicts on behalf of both states and rebels. PREREQ: POLS 306; or International Business or Global Studies major or minor, with junior standing or above or PERM/INST.

**POLS 433 (WORLD 320) CHINA TODAY (3-0-3)(F/S).** Survey of contemporary China including cultural and historical roots, nation-building efforts, political, economic and social systems, and domestic and foreign policies. Discussion of Hong Kong, Tibet, and Taiwan. May be taken for WORLD or POLS credit, but not both. PREREQ: HIST 121 or GLOBAL 101 or GLOBAL 200 or POLS 305 or POLS 306.

**POLS 434 ENVIRONMENTAL SECURITY (3-0-3) (F/S).** Examines environmental security threats, including the linkages between climate change, water scarcity, and food security. Analyzes human rights abuses, civil war, political unrest, and international conflicts as underlying themes. Provides a thorough understanding of how environmental systems and state security are intertwined. PREREQ: POLS 305 or POLS 306, or Global Studies major or minor or Environmental Studies major or minor and upper-division standing.

**POLS 435 GLOBAL DEMOCRACY (3-0-3) (F/S).** Examines, from a comparative perspective, the processes by which countries become democratic, from macro level geopolitical and socioeconomic forces to micro level grass roots citizen and civic initiatives. Also focuses on whether the trend of more countries becoming democracies will continue throughout the 21st century. PREREQ: POLS 305 or POLS 306, or Global Studies major or minor or Environmental Studies major or minor and upper-division standing.

**POLS 436 OIL, DEVELOPMENT, AND DEMOCRACY (3-0-3) (F/S).** Examines the relationship between oil, development, and democracy. Analyzes the consequences of oil for democracy, economic performance, gender, violence, international cooperation, and international economic outcomes. Provides an in depth understanding of individual oil-rich countries and cross national patterns. PREREQ: POLS 305 or POLS 306, or Global Studies major or minor or Environmental Studies major or minor and upper-division standing.

**POLS 437 RACE, JUSTICE, AND DEMOCRACY (3-0-3) (F/S).** Exploration of the dynamics of race and ethnicity in American society, political institutions, and public policy. Historical construction of race in the United States and the development, the dynamics of race and ethnicity in historical and contemporary political issues, the Obama era and the idea of a post-racial presidency as well as the future of race relations in the United States. PREREQ: Junior standing or above or PERM/INST.

**POLS 438 APPLIED CAMPAIGN MANAGEMENT (3-0-3) (F/S).** Introduction to the applied side of contemporary politics, with an emphasis on campaign management. Students who successfully complete this course will be better equipped with the skills required to do politics. Throughout the semester, leading practitioners in these areas will visit the class, sharing not only their experiences but insight into the skills needed for success in their area of expertise. PREREQ: upper-division standing

**POLS 440 AMERICAN POLITICAL THOUGHT (3-0-3) (F/S).** Genesis and development of political thought in the United States from the colonial period to the present. PREREQ: POLS 300 or POLS 315 or PERM/INST.

**POLS 441 (PHIL 441) CLASSICAL POLITICAL THOUGHT (3-0-3) (F) (Odd years).** Development of political philosophy from Socrates to Machiavelli. May be taken for either POLS or PHIL credit, but not both. PREREQ: POLS 315; or one upper-division philosophy course or PERM/INST.

**POLS 442 (PHIL 442) MODERN POLITICAL THOUGHT (3-0-3) (S) (Even years).** Development of political thought since Machiavelli. May be taken for either POLS or PHIL credit, but not both. PREREQ: POLS 315; or one upper-division philosophy course or PERM/INST.

**POLS 443 (PHIL 443) CONTEMPORARY POLITICAL THOUGHT (3-0-3) (F) (Even years).** Major trends in political thought from the post-French Revolutionary era, which may include German idealism, historicism, existentialism, nihilism, and Marxism. May be taken for either POLS or PHIL credit, but not both. PREREQ: POLS 315; or one upper-division philosophy course or PERM/INST.

**POLS 445 (INTBUS 445) INTERNATIONAL TRADE AND INVESTMENT LAW (3-0-3) (F).** The law and policy of international economic institutions (e.g., World Trade Organization, NAFTA), national government regulation and private law affecting international transactions in trade in goods, services, technology, and investments. Also selected issues in U.S. foreign/trade policy and ethical/social responsibility. May be taken for either INTBUS or POLS credit, but not both. Recommended: INTBUS 230. PREREQ: Admission to COBE, senior/graduate standing or POLS 305 or POLS 306, or PERM/CHAIR.

**POLS 446 CONSTITUTIONAL LAW (3-0-3) (F/S).** Examination of the Constitution, as interpreted by the Supreme Court, through the case method. Powers and limitations of the judicial, legislative, and executive branches and legal significance of federalism. PREREQ: POLS 300 or PERM/INST.

**POLS 447 CIVIL LIBERTIES (3-0-3) (F/S).** Examination of constitutional rights and liberties, as interpreted by U.S. Supreme Court, through the case method. Rights of free speech, press, association, religious exercise, privacy, and protection of civil rights that were denied on basis of race or gender. PREREQ: POLS 300 or PERM/INST.

**POLS 448 WOMEN AND THE LAW (3-0-3) (F/S).** Examination of laws and legal issues concerning women, including equality in education and employment, family and privacy issues. PREREQ: POLS 300 or PERM/INST.

**POLS 449 LAW, POLITICS, AND SOCIETY (3-0-3) (F/S).** Study of the social and political context of the American judicial system, with an emphasis on legal culture, institutions, and process in the field of civil law. PREREQ: POLS 300 or PERM/INST.

**POLS 451 SEMINAR IN JUDICIAL POLITICS (3-0-3) (F/S).** Intensive study of a particular issue or problem in American or comparative legal institutions. Consult current class schedule for specific selections offered each term. May be repeated for credit. PREREQ: POLS 300 or PERM/INST.

**POLS 452 SEMINAR IN POLITICAL PHILOSOPHY (3-0-3) (F/S).** Intensive study of a particular issue or problem in Political Philosophy. Consult current class schedule for specific selections offered each term. May be repeated for credit. PREREQ: POLS 315 or PERM/INST.

**POLS 493 INTERNSHIP (Variable credit) (F, S, SU).** Upper-division students may arrange through the department for an internship program. The legislative internship is a part of this program and application for it should be made in early October. PREREQ: Cumulative GPA of 3.0 or higher and upper-division standing and PERM/INST.

**POLS 499 CAPSTONE RESEARCH SEMINAR (3-0-3) (F/S) (FF).** Finishing foundation course that will focus on producing a final research project in each student's area of choice. Students will develop a research question, collect evidence and data, and write and present a thesis paper. PREREQ: Senior standing in political science major and POLS 298.

## Pre-Business

*College of Business and Economics*

Micron Business and Economics Building, Room 1213  
(208) 426-3859 (phone)  
cobeadvising@boisestate.edu (email)  
<https://www.boisestate.edu/cobe/> (website)

### Program Statement

The pre-business major provides students with the academic foundation needed for admission into one of the Bachelor's in Business Administrations (BBA) degree programs in the College of Business and Economics (COBE). Currently enrolled students at Boise State University may declare a pre-business major at any time. Pre-business majors must complete a series of courses before applying for admittance to COBE to continue and complete their BBA in the following majors: Accountancy, Business Administration, Business Economics, Entrepreneurship Management, Finance, Human Resource Management, Informational Technology Management, International Business, Marketing, Supply Chain Management.

### Admission Requirements

Students interested in pursuing a degree in COBE (except for the Economics BA, Quantitative Economics BA, Economics, Social Science, Secondary Education Emphasis BA, Business and Economic Analytics BS, and BBA in Management) must be a pre-business major and complete the COBE admission requirements prior to the declaration of a COBE major. Admission to COBE is required before a student may enroll in most upper-division business and economics courses.

Please see the COBE advising website: <https://www.boisestate.edu/cobe-studentadvising/> to obtain specific information about the application process and application deadlines.

To be eligible for admission, students must:

- complete or be in the final semester of the following gateway courses with a grade of C- or better, and
- meet minimum gateway GPA requirement of 2.5, in the following courses:
  - ACCT 205 Introduction to Financial Accounting
  - ACCT 206 Introduction to Managerial Accounting
  - BUS 101 Business for the New Generation
  - BUSCOM 201 Global Business Communication
  - BUSSTAT 207 Introduction to Business Analytics or MATH 254 Introduction to Statistics
  - ECON 201 Principles of Macroeconomics
  - ECON 202 Principles of Microeconomics
  - ITM 105 Spreadsheet Topics
  - MATH 143 College Algebra or MATH 149 Precalculus: Functions for Business or MATH 160 Survey of Calculus or MATH 170 Calculus I

University general education requirements do not need to be completed before admission to COBE, but it is strongly advised that students finish most of the general education coursework in the first two years while declared as pre-business major. Students should work on the following common degree requirements in conjunction with the gateway courses while declared as pre-business major:

- FW ENGL 101 Writing and Rhetoric I
- FW ENGL 102 Writing and Rhetoric II
- UF 100 Foundations of Intellectual Life
- UF 200 Foundations of Ethics and Diversity
- FC Foundations of Oral Communication course
- BUS 202 Legal Environment of Business
- BUSSTAT 208 Business Analytics
- FN (2) Foundations of Natural, Physical, & Applied Sciences courses (one with a lab, from two different fields)
- FH Foundations of Humanities course

- FA Foundations of Arts course
- FS Foundations of Social Sciences course in a second field
  - PSYC 101 Introduction to Psychology is recommended for students interested in majoring in Human Resource Management or Entrepreneurship.

## Pre-Law Advising/3+3 Law Degree Programs

Non-business majors: John McGuire  
Riverfront Hall, Suite 117  
(208) 426-2663 (phone)  
<https://www.boisestate.edu/coas-advising/> (website)

Business majors: Michelle Vos  
(208) 426-1399 (phone)  
michellevos@boisestate.edu (email)

### Pre-Law Advising

Boise State University does not prescribe a pre-law curriculum; therefore, your plan should be based on your interests and objectives in studying law. In general, as a pre-law student, you should place emphasis not only on acquiring knowledge of the fundamental elements that define the nature and character of society but also on developing methods of study, thought, and communication. Present-day law students have undergraduate degrees in business, communication, English, history, mathematics, natural science, philosophy, political science, and a host of other disciplines.

For additional information, see the current U.S. Guide to Law Schools, published annually in October and prepared by the Law School Admission Council and the Association of American Law Schools. This book includes material on the law and lawyers, pre-law preparation, application to law schools, and the study of law, along with information on most American law schools. The Boise State University Pre-Law Society also provides resources if you are considering a legal career.

### 3+3 Law Degree Programs

#### University of Idaho College of Law

Boise State University and University of Idaho College of Law have launched a joint law degree program that affirms their commitment to creating a partnership to expedite the training of legal professionals.

The 3+3 Law Degree Program will allow qualified students to complete their undergraduate and law school education in less time: three years at Boise State, followed by the three-year juris doctor program at University of Idaho.

To learn more about this opportunity, contact the 3+3 Program Coordinator, John McGuire, as noted above. To learn more about University of Idaho College of Law, call (208) 364-4560, or email: [uilaw@uidaho.edu](mailto:uilaw@uidaho.edu).

#### Concordia University School of Law

Boise State University and Concordia University School of Law have launched a joint law degree program that allows students to fast track both their bachelor's and juris doctor degrees. The 3+3 Law Degree Program is a new agreement that will allow qualified students to complete their undergraduate and law school education in less time: three years at Boise State, followed by the three-year juris doctor program at Concordia Law.

In addition, Boise State alumni will receive a 20 percent alumni discount on their tuition at Concordia Law.

To learn more about this opportunity, contact the 3+3 Program Coordinator, John McGuire, as noted above. To learn more about Concordia University School of Law, call (208) 639-5440 or email: [lawadmission@cu-portland.edu](mailto:lawadmission@cu-portland.edu).

# Department of Psychological Science

College of Arts and Sciences

Education Building, Room 629  
 (208) 426-1207 (phone)  
 (208) 426-4386 (fax)  
 psychology@boisestate.edu (email)  
<https://www.boisestate.edu/psychology/> (website)

*Chair and Professor:* Eric Landrum. *Associate Chair and Associate Professor:* Cynthia Campbell. *Professors:* McDonald, Pritchard, Refinetti. *Associate Professors:* Genuchi, Weaver. *Assistant Professors:* Babik, Masarik, McCrea, Stone. *Lecturer:* Henderson. *Emeritus:* Elison-Bowers, Seibert, Taylor.

## Degrees Offered

- Bachelor of Science in Psychology
- Minor in Family Studies
- Minor in Psychology

## Department Statement

The College of Arts and Sciences, through its Department of Psychological Science, confers a baccalaureate degree in psychology. Because of the core requirements for all candidates, this is regarded as a degree in general psychology. Students should be aware that the total program is designed to produce a graduate with a strong background in basic psychology; in other words, students should not regard successful completion of that program as preparation for professional work in psychology. Rather, the student should think of it as 1) a demonstration of educational attainment, as with any other successful academic experience, and 2) preparation for more specialized training in professional or academic psychology or in some related field.

Psychology is classified as a social science by Boise State University, but not by the State Department of Education. You can apply psychology toward a baccalaureate degree in social studies. If you do apply psychology toward a baccalaureate degree in social studies, you may be certified to teach the subjects that are classified by the State as “social studies,” but you will not be certified to teach psychology unless you also meet the requirements for the teaching endorsement.

## Degree Requirements

In every course that is specifically required for the baccalaureate degree in psychology (including non-psychology prerequisites such as basic math), students must pass with a grade of C- or better.

| Psychology Bachelor of Science  |         |
|---|---------|
| Course Number and Title   | Credits |
| University Foundations requirements indicated in bold. See page 48 for details and lists of approved courses. |         |
| <b>UF 100</b> Foundations of Intellectual Life  | 3       |
| <b>UF 200</b> Foundations of Ethics and Diversity   | 3       |
| <b>FW ENGL 101</b> Writing and Rhetoric I   | 3       |
| <b>FW ENGL 102</b> Writing and Rhetoric II  | 3       |
| <b>FC</b> Foundations of Oral Communication   | 3       |
| <b>FM</b> Foundations of Mathematics course   | 3-4     |
| <b>FN BIOL 227</b> Human Anatomy and Physiology I   | 4       |
| <b>FN</b> Foundations of Natural, Physical, & Applied Sciences course in a second field                       | 3-4     |
| <b>FA</b> Foundations of Arts course  | 3       |
| <b>FH</b> Foundations of Humanities course  | 3-4     |
| <b>FS PSYC 101</b> Introduction to Psychology   | 3       |

|  |       |
|--|-------|
| <b>FS</b> Foundations of Social Sciences course in a second field  | 3     |
| BIOL 228 Human Anatomy and Physiology II   | 4     |
| PSYC 120 Introduction to the Psychology Major  | 2     |
| PSYC 295 Statistical Methods   | 3     |
| PSYC 321 Research Methods  | 4     |
| <b>FF PSYC 487</b> Capstone Perspectives: History and Systems  | 3     |
| One (1) course chosen from the Individual Differences cluster:<br>PSYC 219 Cross-Cultural Psychology<br>PSYC 229 Psychology of Gender<br>PSYC 261 Human Sexuality<br>PSYC 271 Human Relationships<br>PSYC 290 The Psychology of Eating                         | 3     |
| One (1) course chosen from the Quantitative Methods cluster:<br>PSYC 405 Advanced Statistical Methods<br>PSYC 421 Psychological Measurement  | 3     |
| One (1) course chosen from the Basic Experimental cluster:<br>PSYC 335 Biological Bases of Behavior<br>PSYC 341 Perception<br>PSYC 343 Cognitive Psychology<br>PSYC 367 Neuroscience of Human Brain Research<br>PSYC 441 Learning                              | 3     |
| One (1) course chosen from the Applied Psychology cluster:<br>PSYC 331 The Psychology of Health<br>PSYC 357 Introduction to Counseling Skills<br>PSYC 438 Community Psychology<br>PSYC 455 Industrial/Organizational Psychology<br>PSYC 459 Psychology and Law | 3     |
| One (1) course chosen from the Developmental cluster:<br>PSYC 309 Child Development<br>PSYC 310 Adolescent and Adult Development<br>PSYC 419 Children and Families: Multicultural Perspectives   | 3     |
| One (1) course chosen from the Person in Society cluster:<br>PSYC 301 Abnormal Psychology<br>PSYC 351 Personality<br>PSYC 431 Social Psychology  | 3     |
| Mathematics course in addition to the 3-4 credits earned under <b>FM</b> requirements.   | 3-5   |
| Upper-division electives to total 40 credits   | 18    |
| Electives to total 120 credits   | 23-28 |
| Total  | 120   |

Family Studies focuses on human development within the family context as well as the family’s interactions with broader social institutions. Issues examined will include the physical, cognitive, social, and emotional development of individuals throughout their lifespan as facilitated by families, educators, welfare/justice systems, and health professionals using relevant methods, concepts, and theories. To receive the minor, students must complete 24 credit hours of courses that are directly relevant to family studies, including 21 credit hours of specified courses and 3 credit hours of approved elective courses. All of these courses are offered by various departments and listed each semester in the online class search portal.

| Family Studies Minor   |         |
|--|---------|
| Course Number and Title  | Credits |
| PSYC 101 Introduction to Psychology  | 3       |
| PSYC 295 Statistical Methods or MATH 254 Introduction to Statistics                  | 3       |
| PSYC 309 Child Development   | 3       |
| PSYC 310 Adolescent and Adult Development  | 3       |
| PSYC 438 Community Psychology or ED-ESP 321 Family and Community Relations: ECE/ECSE | 3       |
| SOC 101 Introduction to Sociology  | 3       |

## PSYCHOLOGICAL SCIENCE

|  |    |
|--|----|
| SOC 340 Sociology of the Family or<br>PSYC 419 Children and Families: Multicultural Perspectives   | 3  |
| One (1) course from the following approved elective courses:<br>CJ 317* Juvenile Justice<br>PSYC 229 Psychology of Gender<br>PSYC 331 The Psychology of Health<br>PSYC 431 Social Psychology<br>SOC 102 Social Problems<br>SOC 415 Juvenile Delinquency<br>SOC 472 Sociology of Aging<br>SOC 481 Sociology of Gender and Aging<br>SOCWRK 101 Introduction to Social Welfare<br>SOCWRK 414* Core Concepts in Trauma Informed Child Welfare Practice | 3  |
| *These courses have a prerequisite that is not for the minor, but is required prior to taking this elective course.  |    |
| Total  | 24 |

The value of the psychology minor is to provide an opportunity to study psychological science in depth. To that end, other than the MATH 254 option, only courses from the Department of Psychological Science with the PSYC prefix can be applied to the psychology minor.

| Psychology Minor  |         |
|---|---------|
| Course Number and Title   | Credits |
| PSYC 101 Introduction to Psychology   | 3       |
| PSYC 295 Statistical Methods or<br>MATH 254 Introduction to Statistics  | 3       |
| Four (4) of the following:<br>PSYC 301 Abnormal Psychology<br>PSYC 309 Child Development<br>PSYC 310 Adolescent and Adult Development<br>PSYC 331 The Psychology of Health<br>PSYC 351 Personality<br>PSYC 431 Social Psychology<br>PSYC 459 Psychology and Law | 12      |
| Upper-division psychology courses   | 3       |
| Total   | 21      |

For more information about what you can do with a Psychology Teaching Endorsement, contact the Department of Curriculum, Instruction and Foundational Studies.

| Psychology Teaching Endorsement   |         |
|---|---------|
| Course Number and Title   | Credits |
| PSYC 101 Introduction to Psychology   | 3       |
| PSYC 295 Statistical Methods  | 3       |
| PSYC 301 Abnormal Psychology  | 3       |
| PSYC 351 Personality  | 3       |
| Upper-division psychology courses   | 9       |
| Total   | 21      |
| See Department of Curriculum, Instruction, and Foundational Studies for more information. |         |

## Course Offerings

### PSYC—Psychology

#### Lower Division

#### PSYC 101 INTRODUCTION TO PSYCHOLOGY (3-0-3)(F, S, SU)(FS).

Investigation of mental processes and behavior through the lens of the scientific method. This survey course draws from topics within the American Psychological Association's five pillars of psychology: Pillar 1 Biological (Neuroscience, Sensation, Consciousness, Motivation); Pillar 2 Cognitive (Cognition, Memory, Perception); Pillar 3 Development (Learning, Life Span

Development, Language); Pillar 4 Social and Personality (Social, Personality, Intelligence, Emotion, Multicultural, Gender); and Pillar 5 Mental and Physical Health (Abnormal, Health, Therapies).

**PSYC 120 INTRODUCTION TO THE PSYCHOLOGY MAJOR (2-0-2)(F, S).** This course is designed to orient the prospective psychology major to the field of psychology and to inform the student about academic requirements, expectations, opportunities, career options and limitations. (Pass/Fail.) PREREQ: PSYC 101.

**PSYC 202 THE SCIENCE AND PRACTICE OF HAPPINESS (3-0-3)(F/S/SU).** Focus on the individual behaviors and mental processes that contribute to happiness through a scientific lens. Subjects include, and are not limited to: empathy, humor, kindness, forgiveness, gratitude, compassion, and mindfulness. An emphasis is placed on the application of this science through the development of a personal happiness practice.

**PSYC 219 CROSS-CULTURAL PSYCHOLOGY (3-0-3)(F/S).** Review of cultural similarity and differences in such areas as child development, gender roles, social behavior, language and communication, and mental illness. Focus on psychological theory and research relevant to explaining how cultural factors influence human behavior and thought. PREREQ: PSYC 101.

**PSYC 229 PSYCHOLOGY OF GENDER (3-0-3)(F/S).** Examines gender issues from a psychological perspective, including scientific literature and psychological theories on these issues. Topics, among others, include work and family issues, biological vs. psychosocial influences on behavior, and gender roles. PREREQ: PSYC 101.

**PSYC 261 HUMAN SEXUALITY (3-0-3)(F/S).** An overview of human sexuality emphasizing both physiological and psychological aspects of sexuality. Topics include sexual anatomy and physiology, sexual response cycle, childbirth, contraception, sexual dysfunction, sex role development, and sexual deviation. Cross-cultural values will be examined and a values clarification unit will be included. PREREQ: PSYC 101.

**PSYC 271 HUMAN RELATIONSHIPS (3-0-3)(F/S).** The study of individual sexuality as well as the dynamics of close relationships from a variety of psychological perspectives. Topics covered include sexuality development, sexual behavior, initial attraction, dating patterns, long-term relationships, familial relationships, intimacy and communication, domestic violence, and relationship development. PREREQ: PSYC 101.

**PSYC 290 THE PSYCHOLOGY OF EATING (3-0-3)(S).** The psychological processes underlying human development of eating behaviors and the adoption of both healthy and unhealthy cognitions and behaviors concerning food, eating, and body image. Issues addressed include: food choice, food preferences, eating motivation, cultural influences, weight regulation, body image, dieting, obesity, eating disorders, and treatment. PREREQ: PSYC 101.

**PSYC 295 STATISTICAL METHODS (3-0-3)(F, S).** Statistical concepts and methods commonly used in treatment of data in the social sciences. Topics covered will include: measures of central tendency and of variability, correlation measures, probability, and analysis of variance. PREREQ: PSYC 101.

#### Upper Division

**PSYC 301 ABNORMAL PSYCHOLOGY (3-0-3)(F, S).** A descriptive approach to the study of the etiology, development, and dynamics of behavioral disorders, together with a review of current preventive and remedial practices. PREREQ: PSYC 101, upper-division standing.

**PSYC 309 CHILD DEVELOPMENT (3-0-3)(F, S).** Designed for psychology majors, the course emphasizes theories of human development including psychodynamic, behavioral, social-learning, and cognitive. Contemporary views of genetic and environmental contributions will be examined. Research designs appropriate to developmental issues will be explored. The emphasis will be on development from the prenatal period to adolescence. PREREQ: PSYC 101, upper-division standing.

**PSYC 310 ADOLESCENT AND ADULT DEVELOPMENT (3-0-3)(F, S).** Designed for psychology majors, the course emphasizes theories of human development including psychodynamic, behavioral, social-learning, and



cognitive. Includes contemporary views of genetics, the environmental, and research designs appropriate to developmental issues. PREREQ: PSYC 101, upper-division standing.

**PSYC 321 RESEARCH METHODS (3-1-4)(F, S).** The application of scientific methodology to the study of behavior. Design of experiments, methods of analysis, and interpretation of data; reporting of behavioral research. PREREQ: ENGL 102, PSYC 120, PSYC 295, upper-division standing.

**PSYC 322 (ANTH 322)(DATA-LA 322)(SOC 322) PRINCIPLES OF DATA SCIENCE (3-0-3)(F).** An introduction to the core concepts of data science including: predictive modeling using machine learning and data mining; data gathering, extraction and cleaning; and exploratory data analysis. Emphasizes practical skills for liberal arts students to examine questions of human behavior using large and complex data sets. May be taken for credit in ANTH, DATA-LA, PSYC, or SOC but not for more than one discipline. PREREQ: Upper-division standing, CS 133, and a statistics course.

**PSYC 331 THE PSYCHOLOGY OF HEALTH (3-0-3)(F/S).** This course focuses on how biological, psychological, cultural, and social factors affect health and illness. It evaluates the best ways to promote healthy living and prevent disease and how people react psychologically when they are diagnosed with an illness or asked to make lifestyle changes. It also covers the influence of stress, coping, personality, culture, and family on health. PREREQ: PSYC 101, PSYC 295 or MATH 254, upper-division standing.

**PSYC 335 BIOLOGICAL BASES OF BEHAVIOR (3-0-3)(F/S).** Classical and current issues in physiological psychology, including central and peripheral nervous systems, processing of information and organization of behavior, perception, motivation, emotion, and learning. PREREQ: BIOL 227, PSYC 101, upper-division standing.

**PSYC 341 PERCEPTION (3-0-3)(F/S).** A survey of the basic concepts in the psychology of perception. Processes are stressed, although coverage of receptor structure and neural pathways is included. PREREQ: PSYC 101, upper-division standing.

**PSYC 343 COGNITIVE PSYCHOLOGY (3-0-3)(F/S).** Foundation for understanding the issues, principles, and models involved in the study of mental processes. Topics range from classic cognitive psychology to more current neuroscience. Applications are emphasized. PREREQ: PSYC 321, upper-division standing.

**PSYC 351 PERSONALITY (3-0-3)(F/S).** A study of the major contemporary theories and concepts of personality, with special emphasis on psychoanalytic, humanistic, and behavioral approaches. PREREQ: PSYC 101, PSYC 295 or MATH 254, upper-division standing.

**PSYC 357 INTRODUCTION TO COUNSELING SKILLS (3-0-3)(F, S).** Explores relevant dimensions of the helping relationship, especially the role of the helper. Emphasis will be on developing effective communication and fundamental counseling skills. PREREQ: PSYC 301, upper-division standing.

**PSYC 367 NEUROSCIENCE OF HUMAN BRAIN RESEARCH (3-0-3)(F/S).** Consideration of neuroscience with particular emphasis on current approaches and applications relating to human brain research. The goal is to illuminate the complex interaction shared by physiological/biological and mental functions and processes. The objective is to illustrate the dynamic role of neuroscience in transforming conventional ideology of brain processes and function. PREREQ: PSYC 101, upper-division standing.

**PSYC 401 GENERAL PSYCHOLOGY TEACHING ASSISTANT (0-3-3)(F, S).** Serve as teaching assistant for PSYC 101. Experience may include attending lectures, holding office hours, tutoring students, grading papers, supervising review sessions, guest lecturing, and/or other duties relevant to the course. PREREQ: PSYC 101, upper-division standing, cumulative GPA above 3.00, PERM/INST.

**PSYC 402 PSYCHOLOGY TEACHING ASSISTANT (0-3-3)(F, S).** Serve as teaching assistant for one psychology course. Experience may include attending lectures, holding office hours, tutoring students, grading papers, supervising review sessions, guest lecturing, and/or other duties relevant to teaching the

course. Course may be repeated for a maximum of 6 credits. PREREQ: Upper-division standing, cumulative GPA above 3.00, PERM/INST.

**PSYC 405 ADVANCED STATISTICAL METHODS (3-0-3)(F/S).** Advanced topics in univariate statistics (for example, repeated measures designs) and multivariate techniques such as discriminant analysis, factor analysis, and principal component analysis. PREREQ: PSYC 321 or equivalent, upper-division standing, or PERM/INST.

**PSYC 419 CHILDREN AND FAMILIES: MULTICULTURAL PERSPECTIVES (3-0-3)(F/S).** Research and theories on child development in the context of family interactions and influences. Examine cultural similarities and differences in parental values and beliefs about child rearing, socialization practices, gender roles in families, and the adolescent struggle for independence from family. PREREQ: PSYC 101, upper-division standing.

**PSYC 420 (ANTH 420)(DATA-LA 420)(SOC 420) SOCIAL NETWORK ANALYSIS (3-0-3)(F, S, SU).** Introduces and applies concepts and empirical methods of network analysis in a field-based project. Social networks influence learning, economic behavior, and adoption of new products and organizational innovations. May be taken for credit in ANTH, DATA-LA, PSYC, or SOC but not for more than one discipline. PREREQ: Upper-division standing and a statistics course.

**PSYC 421 PSYCHOLOGICAL MEASUREMENT (3-0-3)(F/S).** Theory and nature of psychological measurement together with a survey of types of psychological tests currently used. PREREQ: PSYC 321, upper-division standing.

**PSYC 431 (SOC 431) SOCIAL PSYCHOLOGY (3-0-3)(F/S).** The primary focus is the individual; the unit of analysis, the interpersonal behavior event. A study of individual motives, emotions, attitudes, and cognition with reference to interactions with other human beings. May be taken for PSYC or SOC credit, but not both. SOC 101 and a course in statistics or research design are strongly recommended. PREREQ: PSYC 101 or SOC 101, and upper-division standing.

**PSYC 438 COMMUNITY PSYCHOLOGY (3-0-3)(F/S).** Focuses on human and social problems in a systemic context. Primary prevention and community empowerment strategies employed are emphasized for individual, community, and social benefit. A course in research methods is recommended but not required. PREREQ: PSYC 101, PSYC 295 or MATH 254, upper-division standing.

**PSYC 441 LEARNING (3-0-3)(F/S).** Fundamental concepts of learning, with emphasis on classical conditioning, operant conditioning, and observational learning. Human applications of animal learning principles are stressed. PREREQ: PSYC 321, upper-division standing.

**PSYC 455 INDUSTRIAL/ORGANIZATIONAL PSYCHOLOGY (3-0-3)(F/S).** Introduces fundamental theories, concepts, methods, issues, and psychology of organizational and employee effectiveness. Topics include employee selection, job analysis, criterion development, predictors of job performance, work teams, leadership, motivation, job attitudes, stress and well-being, and organizational development. PREREQ: PSYC 101, PSYC 295, PSYC 321, upper-division standing.

**PSYC 459 PSYCHOLOGY AND LAW (3-0-3)(F/S).** The course provides an overview of research in the field of psychology and the law, and documents how psycholegal research relates to pressing issues facing the judicial system. A partial list of topics includes: eyewitness testimony, jury deliberations, criminal behavior, evidence, and the structure and function of the legal system. A course in statistics or research design is strongly recommended. PREREQ: PSYC 101, upper-division standing.

**PSYC 485 (ANTH 485)(DATA-LA 485)(SOC 485) STATISTICAL MODELING IN R (3-0-3)(S).** Focuses on statistical methods for practical data analysis, including parametric and non-parametric analyses, ANOVA, multiple and logistic regression, generalized linear models, and dimension reduction methods using R to examine and understand human behavior. Students will conduct a research project designed in partnership with a professional stakeholder that delivers actionable outcomes. May be taken for

credit in ANTH, DATA-LA, PSYC, or SOC but not for more than one discipline. PREREQ: ITM 330 and ITM 340; or DATA-LA 322.

**PSYC 487 CAPSTONE PERSPECTIVES: HISTORY AND SYSTEMS (3-0-3)(F/S)(FF).** A detailed account of the history of psychology encompassing the philosophical antecedents of modern psychology as well as the influential pioneers. Topics include history of psychology as a field of scientific inquiry, overview of development of schools of thought, prominent figures and key theories. PREREQ: PSYC 321, senior standing.

**PSYC 488 DIRECTED RESEARCH IN PSYCHOLOGY (V-V-V)(F, S, SU).** An undergraduate student assists on a research project, supervised by a member of the psychology faculty. Enrollment is contingent on a voluntary commitment to a research project by both parties (faculty and student). Course may be repeated for a maximum of 9 credits. PREREQ: Psychology major, cumulative GPA above 3.00, upper-division standing, and PERM/INST.

**PSYC 489 CAPSTONE PERSPECTIVES ON PSYCHOLOGICAL ISSUES (3-0-3)(F/S).** Controversial issues and social problems are addressed. Students analyze how different areas of psychology contribute to the understanding of contemporary problems making psychological theory and research relevant and understandable to community agencies/groups. PREREQ: PSYC 321, senior standing.

**PSYC 490 CONTEMPORARY TOPICS IN PSYCHOLOGY (3-0-3)(F/S).** Provides advanced coverage of topics in the instructor's area of expertise, with particular focus on the application of psychological principles to address contemporary social problems. May be repeated for a maximum of nine credits. PREREQ: PSYC 321, upper-division standing.

**PSYC 493 INTERNSHIP IN PSYCHOLOGY (V-V-V)(F, S, SU).** Some internship experiences are available through the department. Credit may be granted for psychological activities in applied settings. Course may be repeated for a maximum of 12 credits, not to be taken in a single semester. PREREQ: Psychology major, a cumulative GPA above 3.00, PSYC 321, upper-division standing, and PERM/INST.

**PSYC 495 SENIOR THESIS (0-3-3)(F, S).** An individual research project in psychology selected by student. Proposal must be approved by instructor before enrolling. Recommended projects are those which will contribute to the body of psychological knowledge or will apply psychological principles to practical problems. Recommended for psychology students planning on graduate school. Course may be taken for a maximum of 3 credits. PREREQ: PSYC 101, PSYC 321, upper-division standing, and PERM/INST.

**PSYC 496 INDEPENDENT STUDY IN PSYCHOLOGY (V-V-V)(F, S, SU).** Independent study is an opportunity to earn academic credit outside of the established curriculum. It assumes the confluence of two streams of interest that of a student and that of a professor. Thus, enrollment is contingent on a voluntary commitment to the project by both parties. Course may be repeated for a maximum of 9 credits. PREREQ: Psychology major, a cumulative GPA above 3.0, PSYC 321, upper-division standing, and PERM/INST.

**NOTE:** You may apply no more than nine (9) combined credit hours of independent study (496) and undergraduate research (488) toward your degree.

## Public Service

### Course Offerings

#### SPS—School of Public Service

##### Lower Division

**SPS 150 RESIDENTIAL COLLEGE: SCHOOL OF PUBLIC SERVICE (1-0-1)(F/S).** Examines leadership theories and concepts as well as leadership in practice through community service projects. May be repeated for credit. PREREQ: Admission to program.

**SPS 200 PROBLEM SOLVING IN PUBLIC SERVICE (3-0-3)(F/S).** Hands-on learning where students explore the fields of public service and examine the role of public service in solving problems by engaging with practitioners, researchers, and community partners.

**SPS 240 DATA IN PUBLIC SERVICE (3-0-3)(F/S).** Introduces essential concepts of applied research, data collection, data analysis, and communication of results. Develops familiarity with relevant public databases and community evaluation. Explores common research fallacies and their connection to ethics of public service.

##### Upper Division

**SPS 301 ENGAGEMENT AND EMPATHY IN PUBLIC SERVICE (3-0-3)(F/S).** Introduces current scholarship on public engagement methods, with a focus on effectively and empathetically working with people from different backgrounds and with diverse perspectives and goals. Offers opportunities to practice these methods, including designing, facilitating, and evaluating public engagement efforts, in applied contexts. PREREQ: ENGL 102.

**SPS 331 ADVOCACY IN ACTION (3-0-3)(F/S).** Engages students in designing and leading social impact advocacy campaigns, and developing relevant skills, while exploring various strategies, actions, personal attributes, external factors, bridge-building tactics, and local community elements that are involved in advocacy work. PREREQ: junior standing, and HIST 330 or declared human rights certificate, or PERM/INST.

**SPS 340 POLICY ANALYSIS AND IMPLEMENTATION (3-0-3)(F/S).** Concepts and methods applied in policy analysis and implementation. Exploration of current energy and environmental policy topics at the local community and urban scale, and common tools used to approach policy problems. Topics may include policy field mapping, program process flow analysis, target audience analysis, implementation improvement planning, policy question definition, and policy alternative construction and evaluation. PREREQ: SPS 240.

**SPS 395 PUBLIC SERVICE STUDIO (3-0-3)(F/S/SU).** Immersive experience participating in interdisciplinary undergraduate research in a collaborative setting mentored by faculty with opportunities to bridge research in other courses and community outlets. Students may take studio up to three times for credit. PREREQ: SPS 200 and PERM/INST.

**SPS 495 TOOLS AND STRATEGIES IN PUBLIC SERVICE (Variable 1-3)(F/S/SU).** Engages students in applied practices common to work in public service and civic life. These practical workshops may include grant writing, public participation methods, surveys, data visualizations, environmental impact statements, public budgeting, policy writing, and more. Students may take these workshops more than once. PREREQ: SPS 240.

# Department of Radiologic Sciences

College of Health Sciences | School of Allied Health Sciences

Health Science Riverside Building  
(208) 426-1996 (phone)  
(208) 426-4459 (fax)  
<https://www.boisestate.edu/radiologicsciences/> (website)

*Chair, Diagnostic Medical Sonography Program Director and Associate Professor:* Joie Burns. *Computed Tomography, Magnetic Resonance, and Imaging Sciences Programs Director and Associate Professor:* Leslie Kendrick. *Diagnostic Radiology Program Director and Associate Clinical Professor:* Catherine Masters. *Diagnostic Radiology Clinical Coordinator and Clinical Assistant Professor:* Travis Armstrong. *Clinical Associate Professor:* John Lampignano. *Clinical Assistant Professor:* Natalie Mourant.

## Degrees and Certificates Offered

- Bachelor of Science in Imaging Sciences
- Bachelor of Science in Radiologic Sciences
  - Computed Tomography Emphasis
  - Diagnostic Medical Sonography Emphasis
  - Diagnostic Radiology Emphasis
  - Magnetic Resonance Imaging Emphasis
- Certificate in Computed Tomography
- Certificate in Diagnostic Medical Sonography
- Certificate in Magnetic Resonance Imaging

## Department Statement

Medical Imaging is an allied health profession that encompasses various modalities utilizing ionizing and non-ionizing radiation to improve human care outcomes through diagnostic and therapeutic interventions. The Radiologic Sciences Department has a long tradition of excellence both clinically and academically. The department offers a Bachelor of Science degree with four different major emphases (programs) for completion: Diagnostic Radiology (DR), Computed Tomography (CT), Magnetic Resonance Imaging (MRI), and Diagnostic Medical Sonography (DMS). Graduates of the DR, CT and MRI emphases are eligible for national certification examinations offered by the American Registry of Radiologic Technologists (ARRT). Graduates of the DMS emphasis are eligible for national certification examinations offered by both the ARRT and the American Registry for Diagnostic Medical Sonography (ARDMS).

The Diagnostic Radiology Program is accredited by the Joint Review Committee on Education in Radiologic Technology, 20 N. Wacker Drive, Suite 2850, Chicago, IL 60606-3182; Phone: (312) 704-5300; <http://www.jrcert.org/>.

The Diagnostic Medical Sonography program is accredited by the Commission on Accreditation of Allied Health Education Programs (CAAHEP) upon the recommendation of the Joint Review Committee on Education in Diagnostic Medical Sonography: CAAHEP; 25400 US Highway 19 North, Suite 158; Clearwater, FL 33763. Phone: (727) 210-2350; Fax: (727) 210-2354; <http://www.caahep.org>.

The Department of Radiologic Sciences also offers a Bachelor of Science in Imaging Sciences. This program is for those students who have earned an associate or applied associate degree from a regionally accredited institution in a field of medical imaging with a current credential from the American Registry of Radiologic Technologists, or equivalent, and wish to complete a non-clinically based Bachelor of Science degree program.

## Pre-professional Curriculum

All students who are considering entry into the Radiologic Sciences emphases must have completed (C letter grade or better) or be in the process of completing the pre-professional curriculum at the time of application. The pre-professional curriculum need not be taken at Boise State University, but transfer courses must equate to the required Boise State courses. The courses that need to

be completed prior to application are specific to each emphasis. Please see the department website, <https://www.boisestate.edu/radiologicsciences/>, for specific information about admission requirements for each program.

## Admission Criteria

Each emphasis (program) has a specific application and acceptance process that includes various academic/personal requirements. It is highly recommended that all interested students seek advising prior to application submission. Because of the large number of students seeking admission into the various emphasis programs, not all applicants can be admitted. All applicants should have applied to and been accepted at Boise State. The following summarizes the admission requirements for acceptance into specific degree emphasis areas.

### Computed Tomography Emphasis:

1. ARRT credentialed technologist, RT(R), in good standing
2. Submit program application by March 1 to include an application fee, three closed reference forms, copies of all transcripts and résumé (see department website for more details)
3. Minimum cumulative GPA of 2.5
4. Completed or in process of completing pre-professional curriculum
  - ENGL 101-102 Writing and Rhetoric I, II
  - MATH 143 College Algebra or MATH 170 Calculus I or ACT of 27
  - MATH 254 Introduction To Statistics
  - BIOL 227-228 Human Anatomy and Physiology I & II
  - HLTH 101 Medical Terminology
  - CHEM 101, 101L Intro to Chemistry I and Lab or CHEM 111, 111L General Chemistry I and Lab
  - Documented computer competency for word processing (Word), spreadsheets (Excel), and databases (Access)
5. Attend personal interview, if invited

### Diagnostic Medical Sonography Emphasis:

1. Credentialed, clinically-based health care provider graduated from a regionally accredited institution (minimum of a two year full-time allied health program earning AS degree)
2. Submit program application by March 1 to include an application fee, three closed reference forms, copies of all transcripts and résumé (see department website for more details)
3. Minimum cumulative GPA of 3.0
4. Completed or in process of completing pre-professional curriculum
  - ENGL 101-102 Writing and Rhetoric I, II
  - MATH 143 College Algebra
  - BIOL 227-228 Human Anatomy and Physiology I & II
  - HLTH 101 Medical Terminology
  - CHEM 101, 101L Intro to Chemistry I and Lab or CHEM 111, 111L General Chemistry I and Lab
  - PHYS 101 Introduction to Physics or PHYS 106 Radiation Physics (or equivalent)
  - Statistics course
  - Documented computer competency for word processing (Word), spreadsheets (Excel), and databases (Access)
  - Preference will be given to radiographers
5. Attend personal interview, if invited

### Diagnostic Radiology Emphasis:

1. Submit Program Application by the second Friday in February to include an application fee, letter of application, copies of all transcripts, and three defined (one education-related, one work-related, one general character) closed references forms (see department website for more details)
2. Minimum cumulative GPA of 2.5
3. Completed or in process of completing pre-professional curriculum (minimum prerequisite GPA 2.6 with 13 credits completed)
  - ENGL 101-102 Writing and Rhetoric I, II

## RADIOLOGIC SCIENCES

- MATH 143 College Algebra or MATH 170 Calculus I or ACT of 27
  - BIOL 227-228 Human Anatomy and Physiology I, II
  - HLTH 101 Medical Terminology
  - CHEM 101, 101L Intro to Chemistry I and Lab or CHEM 111, 111L General Chemistry I and Lab
  - PSYC 101 Introduction to Psychology
  - Three credits of either Foundation of Arts (FA) or Foundation of Humanities (FH)
  - Documented computer competency for word processing (Word), spreadsheets (Excel), and databases (Access)
4. Attend a personal interview, if invited.

### Imaging Sciences Admission Requirements:

1. Associate of Science, Associate of Arts or Associate of Applied Science from a regionally accredited college or university
  2. ARRT credentialed technologist, or equivalent, in good standing
  3. Submit program application by the fall or spring application deadlines after acceptance to Boise State University and submission of transcripts
  4. Minimum cumulative GPA of 2.7
  5. A. ) Completed or in the process of completing pre-professional curriculum with an AA or AS degree
    - BIOL 227-228 Human Anatomy and Physiology I, II
    - MATH 108 Intermediate Algebra or MATH 143 College Algebra
    - MATH 254 Introduction to Statistics (will accept any equivalent college statistics course)
- OR
- B. ) Completed or in the process of completing pre-professional curriculum with an AAS degree
- UF 200 Foundations of Ethics and Diversity
  - BIOL 227-228 Human Anatomy and Physiology I, II
  - Foundations of Oral Communication course
  - ENGL 101-102 Writing and Rhetoric I, II
  - HLTH 101 Medical Terminology
  - MATH 108 Intermediate Algebra or MATH 143 College Algebra
  - MATH 254 Introduction to Statistics (will accept any equivalent college statistics course)
  - SOC 101 Intro to Sociology or PSYC 101 Intro to Psychology
  - Foundation of Social Sciences (in a second field) course
  - Foundation of Humanities course
  - Foundation of Arts course
  - Foundation of Natural, Physical, and Applied Sciences (in a second field) course

### Magnetic Resonance Imaging Emphasis:

1. Credentialed, clinically-based health care provider graduated from a regionally accredited institution and accepted for admission at Boise State (generally minimum of AS degree)
2. Minimum cumulative GPA of 2.5
3. Submit program application by March 1 to include an application fee, three closed reference forms, copies of all transcripts and résumé (see department website for more details)
4. Completed or in process of completing pre-professional curriculum
  - ENGL 101-102 Writing and Rhetoric I, II
  - MATH 143 College Algebra or MATH 170 Calculus I or ACT of 27
  - MATH 254 Introduction To Statistics
  - BIOL 227-228 Human Anatomy and Physiology I, II
  - HLTH 101 Medical Terminology
  - CHEM 101, 101L Intro to Chemistry I and Lab or CHEM 111, 111L General Chemistry I and Lab
  - Documented computer competency for word processing (Word), spreadsheets (Excel), and databases (Access)
  - PHYS 101 Intro to Physics or PHYS 106 Radiation Physics course (or equivalent)

5. Attend personal interview, if invited

All required major/program courses must be completed with a C or better (C- is not acceptable). Students may be denied program progression if courses are not completed with a C or better. See the department website (<https://www.boisestate.edu/radiologicsciences/>) to obtain more information about these programs.

All students admitted into the clinically-based emphases of DR, CT, MRI, and DMS must submit to a criminal background check, drug and alcohol testing, and obtain health status verification at their own expense. Information from the background check or drug and alcohol testing deemed to be detrimental to the care of patients will result in revocation of admission status. See the department website to obtain more information about the criminal background check, drug and alcohol testing, and health status verification policies.

Criminal convictions may prevent applicants from taking national certification examinations and/or gaining employment after graduation. Applicants should refer to the ARRT website <https://www.arrt.org/> and/or the ARDMS website <http://www.ardms.org/> for clarifying information.

### Special Fees

Students who are admitted in the DR, CT, MRI, and DMS programs pay additional laboratory and/or program fees at the time of admission or enrollment. See the online class search for specific courses and amounts.

### Degree Requirements

| Imaging Sciences<br>Bachelor of Science   |         |
|---|---------|
| Course Number and Title   | Credits |
| University Foundations requirements indicated in bold. See page 48 for details and lists of approved courses.   |         |
| Credentialed medical imager: credit for prior learning for passing ARRT credentialing exam or equivalent. (15 credits lower-division/10 credits upper-division. ) | 25      |
| BIOL 227 Human Anatomy and Physiology I (FN)  | 4       |
| BIOL 228 Human Anatomy and Physiology II  | 4       |
| <b>FF</b> HLTH 400 Interprofessional Capstone   | 1       |
| MATH 108 Intermediate Algebra or MATH 143 College Algebra   | 3       |
| IMGSCI 302 Civic Engagement, Ethics and Global Diversity  | 3       |
| IMGSCI 304 Professionalism and Research in Imaging Sciences   | 1       |
| IMGSCI 305 Human Resource Management  | 3       |
| IMGSCI 308 Advanced Digital Imaging   | 2       |
| IMGSCI 310 Public Health  | 3       |
| IMGSCI 312 Information Technology for Imaging Professionals   | 1       |
| IMGSCI 314 Health Law and Ethics  | 3       |
| IMGSCI 315 Health Informatics in Imaging Sciences   | 3       |
| IMGSCI 382 Research Methods in Imaging Sciences   | 3       |
| IMGSCI 402 Comprehensive Analysis on Radiation Protection   | 2       |
| IMGSCI 404 Study of Diseases in Imaging Sciences  | 3       |
| IMGSCI 408 Sectional Anatomy in Imaging Sciences  | 3       |
| IMGSCI 412 Preventative Care and Patient Advocacy in Imaging Sciences   | 2       |
| Associate of Science or Associate of Arts degree students must complete the following:  |         |
| Associate of Science (AS) or Associate of Arts (AA) degree earned from a regionally accredited institution  | 48      |

|  |         |
|--|---------|
| College statistics course  | 3       |
| Total  | 120     |
| Associate of Applied Science degree students must additionally complete the following:     |         |
| Associate of Applied Science (AAS) degree earned from a regionally accredited institution. | 23      |
| UF 200 Foundations of Ethics and Diversity   | 3       |
| FW ENGL 101 Writing and Rhetoric I   | 3       |
| FW ENGL 102 Writing and Rhetoric II  | 3       |
| FC Foundations of Oral Communication   | 3       |
| FM MATH 254 Introduction to Statistics   | 3       |
| FN Foundations of Natural, Physical, & Applied Sciences course in a second field           | 3-4     |
| FA Foundations of Arts course  | 3       |
| FH Foundations of Humanities course  | 3-4     |
| FS SOC 101 Introduction to Social Sciences or FS PSYC 101 Introduction to Psychology       | 3       |
| FS Foundations of Social Sciences course in a second field                                 | 3       |
| HLTH 101 Medical Terminology   | 3       |
| Total  | 125-127 |
| All major requirements must be completed with C (not C-) or better.                        |         |

| Radiologic Sciences Bachelor of Science  |                |
|--|----------------|
| <i>Course Number and Title</i>   | <i>Credits</i> |
| University Foundations requirements indicated in bold. See page 48 for details and lists of approved courses.  |                |
| <b>UF 100</b> Foundations of Intellectual Life   | 3              |
| <b>UF 200</b> Foundations of Ethics and Diversity  | 3              |
| <b>FW ENGL 101</b> Writing and Rhetoric I  | 3              |
| <b>FW ENGL 102</b> Writing and Rhetoric II   | 3              |
| <b>FC</b> Foundations of Oral Communication (COMM 101 recommended)   | 3              |
| <b>FN BIOL 227</b> Human Anatomy and Physiology I  | 4              |
| <b>FN CHEM 101, 101L</b> Introduction to Chemistry I & Lab or <b>FN CHEM 111, 111L</b> General Chemistry I with Lab  | 4              |
| <b>FA</b> Foundations of Arts course   | 3              |
| <b>FH</b> Foundations of Humanities course   | 3-4            |
| <b>FS</b> Foundations of Social Sciences course in a second field  | 3              |
| BIOL 228 Human Anatomy and Physiology II   | 4              |
| HLTH 101 Medical Terminology   | 3              |
| HLTH 210 Health Services Administration  | 3              |
| HLTH 300 Pathophysiology   | 4              |
| <b>FF HLTH 400</b> Interprofessional Capstone  | 1              |
| Area of Emphasis: Students complete an emphasis in Computed Tomography, Diagnostic Medical Sonography, Diagnostic Radiology, or Magnetic Resonance Imaging. Each area of emphasis has specific requirements that are listed below. |                |
| <b>Computed Tomography Emphasis</b>  |                |
| Credentialed Radiographer matriculated from a regionally accredited institution; credit for prior learning.  | 25             |
| HLTH 382 Research Methods in Health or RADSCI 340 Radiographic Quality Assurance   | 2-3            |
| <b>FM MATH 153</b> Statistical Reasoning or <b>FM MATH 254</b> Introduction to Statistics  | 3              |

|  |         |
|--|---------|
| <b>FS PSYC 101</b> Introduction to Psychology or <b>SOC 101</b> Intro to Sociology   | 3       |
| MATH 143 College Algebra or MATH 170 Calculus I or ACT score of 27   | 0-4     |
| RADSCI 310 Pharmacology and Contrast Medias  | 1       |
| RADSCI 430 Comparative Sectional Imaging in the Radiologic Sciences  | 3       |
| RADSCI 431 CT Radiation Dose and Risk Analysis   | 1       |
| RADSCI 450 Principles of Computed Tomography   | 3       |
| RADSCI 450L Principles of Computed Tomography Lab  | 1       |
| RADSCI 451 Procedural Case Studies in Computed Tomography  | 1       |
| RADSCI 455 Clinical Experience in Computed Tomography  | 4       |
| Upper-division electives to total 40 credits   | 18      |
| Electives to total 120 credits   | 0-7     |
| Total  | 120-121 |
| <b>Diagnostic Medical Sonography Emphasis</b>  |         |
| Credentialed clinically-based Health Care Provider matriculated from a regionally accredited institution (AS/AAS degree minimum); credit for prior learning. | 25      |
| <b>FM MATH 143</b> College Algebra   | 3       |
| <b>FS PSYC 101</b> Introduction to Psychology or <b>SOC 101</b> Intro to Sociology   | 3       |
| HLTH 365 Quality Improvement & Performance Management  | 3       |
| PHYS 101 Introduction to Physics or PHYS 106 Radiation Physics   | 2-4     |
| RADSCI 430 Comparative Sectional Imaging in the Radiologic Sciences  | 3       |
| RADSCI 460 Sonographic Physics and Instrumentation   | 3       |
| RADSCI 461 Abdominal Sonography  | 3       |
| RADSCI 461L Abdominal Scanning Lab   | 1       |
| RADSCI 462 Obstetrics/Gynecology Sonography  | 3       |
| RADSCI 463 Doppler Procedures  | 2       |
| RADSCI 463L Doppler Procedures Lab   | 1       |
| RADSCI 464 Special Sonographic Procedures  | 1       |
| RADSCI 467 Clinical Experience in Medical Sonography I   | 4       |
| RADSCI 468 Clinical Experience in Medical Sonography II  | 5       |
| RADSCI 469 Clinical Experience in Medical Sonography III   | 6       |
| Statistics course  | 3       |
| Electives to total 120 credits   | 0-2     |
| Total  | 120     |
| <b>Diagnostic Radiology Emphasis</b>   |         |
| <b>FM MATH 153</b> Statistical Reasoning or <b>FM MATH 254</b> Introduction to Statistics  | 3       |
| <b>FS PSYC 101</b> Introduction to Psychology  | 3       |
| HLTH 382 Research Methods in Health  | 3       |
| HRM 305 Human Resource Management or HLTH 365 Quality Improvement & Performance Mgmt   | 3       |
| MATH 143 College Algebra or MATH 170 Calculus I or ACT score of 27   | 0-4     |
| PHYS 106 Radiation Physics   | 2       |
| RADSCI 104 Patient Assessment  | 1       |
| RADSCI 105 Interprofessional Patient Care Skills Lab   | 2       |
| RADSCI 200 Principles of Radiographic Imaging I  | 2       |

## RADIOLOGIC SCIENCES

|  |         |
|--|---------|
| RADSCI 201 Principles of Radiographic Imaging I Lab  | 1       |
| RADSCI 202 Principles of Radiographic Imaging II   | 2       |
| RADSCI 203 Principles of Radiographic Imaging II Lab   | 1       |
| RADSCI 222 Radiographic Positioning I  | 3       |
| RADSCI 223 Laboratory Practicum I  | 1       |
| RADSCI 234 Intro to Radiography Clinical Experience  | 1       |
| RADSCI 242 Radiographic Positioning II   | 3       |
| RADSCI 243 Laboratory Practicum II   | 1       |
| RADSCI 285 Radiologic Sciences Clinical Experience   | 4       |
| RADSCI 310 Pharmacology and Contrast Medias  | 1       |
| RADSCI 311 Radiobiology and Protection   | 3       |
| RADSCI 313 Fluoroscopic & Contrast Media Examinations  | 2       |
| RADSCI 314 Law and Ethics in Radiologic Sciences   | 2       |
| RADSCI 330 Introduction to Sectional Anatomy   | 1       |
| RADSCI 338 Information Tech in Radiologic Sciences   | 1       |
| RADSCI 340 Radiographic Quality Assurance  | 2       |
| RADSCI 350 Imaging Pathophysiology   | 3       |
| RADSCI 375 Radiologic Sciences Clinical Experience   | 4       |
| RADSCI 392 Radiologic Colloquium   | 1       |
| RADSCI 385, 395, 405, 425 Radiologic Sciences Clinical Experience or<br>RADSCI 376, 386, 406 Radiologic Sciences Clinical Experience                         | 16      |
| RADSCI 410 Health Promotion and Leadership   | 2       |
| RADSCI 420 Senior Recitation and Integration   | 1       |
| Total  | 122-127 |
| <b>Magnetic Resonance Imaging Emphasis</b>   |         |
| Credentialed clinically-based Health Care Provider matriculated from a regionally accredited institution (AS/AAS degree minimum); credit for prior learning. | 25      |
| <b>FM</b> MATH 153 Statistical Reasoning or<br><b>FM</b> MATH 254 Introduction to Statistics   | 3       |
| <b>FS</b> PSYC 101 Introduction to Psychology or SOC 101 Intro to Sociology  | 3       |
| HLTH 382 Research Methods in Health or<br>RADSCI 340 Radiographic Quality Assurance  | 2-3     |
| MATH 143 College Algebra or<br>MATH 170 Calculus I or<br>ACT score of 27   | 0-4     |
| PHYS 101 Introduction to Physics or<br>PHYS 106 Radiation Physics  | 2-4     |
| RADSCI 310 Pharmacology and Contrast Medias  | 1       |
| RADSCI 430 Comparative Sectional Imaging in the Radiologic Sciences  | 3       |
| RADSCI 440 Principles of Magnetic Resonance Imaging I  | 3       |
| RADSCI 440L Principles of Magnetic Resonance Imaging I Lab   | 1       |
| RADSCI 441 Procedural Case Studies in MRI I  | 1       |
| RADSCI 442 Principles of Magnetic Resonance Imaging II   | 3       |
| RADSCI 442L Principles of Magnetic Resonance Imaging II Lab  | 1       |
| RADSCI 443 Procedural Case Studies in MRI II   | 1       |
| RADSCI 445 Clinical Experience in MRI I  | 4       |
| RADSCI 446 Clinical Experience in MRI II   | 4       |
| Upper-division electives to total 40 credits   | 10      |
| Electives to total 120 credits   | 0-2     |
| Total  | 120-125 |

At time of program application, must demonstrate computer competency in Word, Excel and Access by successful completion of ITM 104, ITM 105, and ITM 106 or COBE Computer Placement Exam or Equivalent; see academic advisor.

### Certificates

The Academic Certificate Pathway is designed for Associate and Bachelor prepared radiographers who seek advanced preparation in another specialty area of medical imaging. Candidates for the Computed Tomography (CT), Diagnostic Medical Sonography (DMS) or Magnetic Resonance Imaging (MRI) certificates must have earned at least an associate degree in radiography from a regionally accredited institution of higher education and successfully received national credentials from the American Registry of Radiologic Technologists. Other credentialed, clinically-based health care practitioners may be considered for the Diagnostic Medical Sonography certificate.

To receive Computed Tomography (CT), Diagnostic Medical Sonography (DMS) or Magnetic Resonance Imaging (MRI) Certificates, students must:

- Meet all program and university admission criteria for the certificate. (admission criteria)
- Successfully complete all prerequisite courses with a grade of C or better.
- Receive an invitation into the certificate program option following a competitive selection process.
- Meet all Program progression criteria for the certificate option in which they enroll.
- Successfully complete the certificate curricula for the option in which they enroll.

#### Computed Tomography Certificate

| <i>Course Number and Title</i>                                      | <i>Credits</i> |
|---|----------------|
| HLTH 300 Pathophysiology  | 4              |
| RADSCI 310 Pharmacology and Contrast Medias                         | 1              |
| RADSCI 430 Comparative Sectional Imaging in the Radiologic Sciences | 3              |
| RADSCI 431 CT Radiation Dose and Risk Analysis                      | 1              |
| RADSCI 450 Principles of Computed Tomography                        | 3              |
| RADSCI 450L Principles of Computed Tomography Lab                   | 1              |
| RADSCI 451 Procedural Case Studies in Computed Tomography           | 1              |
| RADSCI 455 Clinical Experience in Computed Tomography               | 4              |
| Total   | 18             |

#### Diagnostic Medical Sonography Certificate

| <i>Course Number and Title</i>                                      | <i>Credits</i> |
|---|----------------|
| HLTH 300 Pathophysiology  | 4              |
| RADSCI 430 Comparative Sectional Imaging in the Radiologic Sciences | 3              |
| RADSCI 460 Sonographic Physics and Instrumentation                  | 3              |
| RADSCI 461 Abdominal Sonography                                     | 3              |
| RADSCI 461L Abdominal Scanning Lab                                  | 1              |
| RADSCI 462 Obstetrics/Gynecology Sonography                         | 3              |
| RADSCI 463 Doppler Procedures                                       | 2              |
| RADSCI 463L Doppler Procedures Lab                                  | 1              |
| RADSCI 464 Special Sonographic Procedures                           | 1              |
| RADSCI 467 Clinical Experience in Medical Sonography I              | 4              |
| RADSCI 468 Clinical Experience in Medical Sonography II             | 5              |
| RADSCI 469 Clinical Experience in Medical Sonography III            | 6              |
| Total   | 36             |

| Magnetic Resonance Imaging Certificate                              |                |
|---|----------------|
| <i>Course Number and Title</i>                                      | <i>Credits</i> |
| HLTH 300 Pathophysiology  | 4              |
| RADSCI 310 Pharmacology and Contrast Medias                         | 1              |
| RADSCI 430 Comparative Sectional Imaging in the Radiologic Sciences | 3              |
| RADSCI 440 Principles of Magnetic Resonance Imaging I               | 3              |
| RADSCI 440L Principles of MRI I Lab                                 | 1              |
| RADSCI 441 Procedural Case Studies in Magnetic Resonance Imaging I  | 1              |
| RADSCI 442 Principles of Magnetic Resonance Imaging II              | 3              |
| RADSCI 442L Principles of MRI II Lab                                | 1              |
| RADSCI 443 Procedural Case Studies in Magnetic Resonance Imaging II | 1              |
| RADSCI 445 Clinical Experience in MRI I                             | 4              |
| RADSCI 446 Clinical Experience in MRI II                            | 4              |
| Total   | 26             |

### Course Offerings

Only students officially admitted to one of the Radiologic Sciences programs may take RADSCI courses without permission of the instructor.

#### IMGSCI—Imaging Sciences

**IMGSCI 302 CIVIC ENGAGEMENT, ETHICS, AND GLOBAL DIVERSITY (3-0-3)(F, S).** Focused on guiding students to become influential leaders in thought and skill through discussion of civil engagement, ethics, diversity, and internationalization. PREREQ: Admission to the imaging sciences program.

**IMGSCI 304 PROFESSIONALISM AND RESEARCH IN IMAGING SCIENCES (1-0-1)(F, S, SU).** Familiarization with research and communication expectations related to the online AS to BS Program; improves comfort within the online environment through the use of technology, time management skills, and an understanding of program outcomes and expectations. PREREQ: Admission to the imaging sciences program.

**IMGSCI 305 HUMAN RESOURCE MANAGEMENT IN HEALTH CARE (3-0-3)(F, SU).** Overview and application of the major human resource management functions: selection and placement, compensation and benefits, training and development, employee and labor relations, health, safety, and security, and strategic management practices related to the health care industry. Legal, motivational, international, merger, and acquisition, and human resource information system issues are included. PREREQ: Admission to the imaging sciences program.

**IMGSCI 308 ADVANCED DIGITAL IMAGING (2-0-2)(F/S).** Employment of critical thinking to analyze patient dose and safety consideration within radiographic digital imaging. Primary emphasis on problem solving and reasoning to improve patient care through analysis of digital imaging methods and equipment. PREREQ: Admission to the imaging sciences program.

**IMGSCI 310 PUBLIC HEALTH (3-0-3)(S, SU).** Public health concepts and practice. Topics include philosophy, purpose, history, organization, functions, tools, activities and results at national, state, and community levels. PREREQ: Admission to the imaging sciences program.

**IMGSCI 312 INFORMATION TECHNOLOGY FOR IMAGING PROFESSIONALS (1-0-1)(F/S).** Managerial application of information technology in medical imaging to include basis networking, PACS, RIS, HIS, DICOM, standards and information security. PREREQ: Admission to the imaging sciences program.

**IMGSCI 314 HEALTH LAW AND ETHICS (3-0-3)(S, SU).** Process of legal change and health care practitioners' potential interactions with patients, law enforcement, and governmental agencies. Consent, liability, negligence,

employment and licensure of professionals. PREREQ: Admission to the imaging sciences program.

**IMGSCI 315 HEALTH INFORMATICS IN IMAGING SCIENCES (3-0-3)(F, S).** Provides an introduction to health information systems, current legislation impacting health informatics, privacy and security of healthcare records, and healthcare technology as related to Imaging Sciences. PREREQ: Admission to the imaging sciences program.

**IMGSCI 382 RESEARCH METHODS IN IMAGING SCIENCES (3-0-3)(F, SU).** Design of experiments, analysis methods, and interpretation of results and conclusions as related to evidence based research in health. PREREQ: Admission to the imaging sciences program.

**IMGSCI 402 COMPREHENSIVE ANALYSIS ON RADIATION PROTECTION (2-0-2)(S/SU).** Analysis of the biological effects of ionizing radiation. Promotion and advocacy for patients, focused on dose and exposure reduction. PREREQ: Admission to the imaging sciences program.

**IMGSCI 404 STUDY OF DISEASES IN IMAGING SCIENCES (3-0-3)(F/SU).** Examination of the disease processes demonstrated with imaging sciences related to pathogenesis, patient populations, treatment options and prognosis. PREREQ: Admission to the imaging sciences program.

**IMGSCI 408 SECTIONAL ANATOMY IN IMAGING SCIENCES (3-0-3)(S/SU).** Identification of anatomical structures on sectional images to include sagittal, coronal, and transverse body planes utilizing MRI and CT imaging. PREREQ: Admission to the imaging sciences program.

**IMGSCI 412 PREVENTATIVE CARE AND PATIENT ADVOCACY IN IMAGING SCIENCES (2-0-2)(F/SU).** Analysis of preventative care measures provided through medical imaging procedures. Patient care, responsibilities, ethics, and policies required of healthcare providers. PREREQ: Admission to the imaging sciences program.

#### RADSCI—Radiologic Sciences

##### Lower Division

**RADSCI 104 PATIENT ASSESSMENT (1-0-1)(F).** Theory and skill application with clinical focus to perform physical assessment to include assessment techniques, standardized data collection formats, body system assessment, normal findings, relevant variations from normal, and documentation. (Pass/Fail.) COREQ: RADSCI 105.

**RADSCI 105 INTERPROFESSIONAL PATIENT CARE SKILLS LAB (1-4-2)(F).** An interprofessional disciplinary team approach is used to teach basic patient care skills and interventions to restore and protect health. (Pass/Fail.) COREQ: RADSCI 104.

**RADSCI 200 PRINCIPLES OF RADIOGRAPHIC IMAGING I (2-0-2)(F).** Introduction to the exposure factors, formulas, techniques, and tools employed when acquiring digital radiographic images and their impact on image quality and patient radiation dose. COREQ: RADSCI 201.

**RADSCI 201 PRINCIPLES OF RADIOGRAPHIC IMAGING I LAB (0-2-1)(F).** Laboratory demonstration and practice of the principles utilized when acquiring digital radiographic images with an emphasis on the safe operation of digital x-ray machinery. COREQ: RADSCI 200.

**RADSCI 202 PRINCIPLES OF RADIOGRAPHIC IMAGING II (2-0-2)(S).** Analysis of the production and manipulation of digital radiographic and fluoroscopic images with an emphasis on safe and effective operation of x-ray machinery and minimizing patient dose. PREREQ: 200; COREQ: RADSCI 203.

**RADSCI 203 PRINCIPLES OF RADIOGRAPHIC IMAGING II LAB (0-2-1)(S).** Laboratory demonstration and practice of the principles of the production and manipulation of digital radiographic and fluoroscopic images with an emphasis on the safe operation of digital x-ray and fluoroscopic machinery. PREREQ: RADSCI 201; COREQ: RADSCI 202.

**RADSCI 222 RADIOGRAPHIC POSITIONING I (3-0-3)(F).** Basic concepts and procedures used in obtaining diagnostic radiographs of the upper and lower extremities, chest, and abdomen. COREQ: RADSCI 223.

## RADIOLOGIC SCIENCES

**RADSCI 223 LABORATORY PRACTICUM I (0-3-1)(F).** Laboratory demonstration and practice of the radiographic positions and procedures. COREQ: RADSCI 222.

**RADSCI 234 INTRODUCTION TO RADIOGRAPHY CLINICAL EXPERIENCE (1-0-1)(F).** Introduction to clinical agency structure, health law and ethics, professionalism and initial clinical practice. Professional observation required. COREQ: RADSCI 104.

**RADSCI 242 RADIOGRAPHIC POSITIONING II (3-0-3)(S).** Continuation of RADSCI 222. Basic concepts and procedures used in obtaining diagnostic radiographs of the bony thorax, pelvic girdles, pelvis, hips, spine and craniofacial anatomy. Laboratory demonstration included in RADSCI 243.

**RADSCI 243 LABORATORY PRACTICUM II (0-3-1)(S).** Laboratory demonstration and practice of the radiographic positions and procedures. COREQ: RADSCI 242.

**RADSCI 285 RADIOLOGIC SCIENCES CLINICAL EXPERIENCE (0-16-4)(S).** Supervised clinical experience. PREREQ: RADSCI 104.

### Upper Division

**RADSCI 310 PHARMACOLOGY AND CONTRAST MEDIAS (1-0-1)(F).** Concepts of pharmacology as it relates to the delivery of contrast medias and selected medications associated with contrast media reactions.

**RADSCI 311 RADIOBIOLOGY AND PROTECTION (3-0-3)(F).** Principles and concepts underlying the biological effects of radiation and federal/state/international radiation protection standards. PREREQ: RADSCI major or PERM/INST.

**RADSCI 313 FLUOROSCOPIC AND CONTRAST MEDIA EXAMINATIONS (2-0-2)(F).** Current protocol/dose considerations of imaging procedures that require administration of contrast media. COREQ: RADSCI 310.

**RADSCI 314 LAW AND ETHICS IN RADIOLOGIC SCIENCES (2-0-2)(S).** Critical analysis of the theory and development of health laws, professional liability and ethics related to radiologic science. The course will examine current policies and ethical challenges that affect the practice of medical imaging. PREREQ: RADSCI 242.

**RADSCI 330 INTRODUCTION TO SECTIONAL ANATOMY (1-0-1)(F).** Identification of sectional anatomy utilizing various acquisition modes and modalities. PREREQ: BIOL 228.

**RADSCI 338 INFORMATION TECHNOLOGY IN RADIOLOGIC SCIENCES (1-0-1)(F).** Review of computer hardware and networking principles as applied to information technology utilized in the medical imaging department. Topics to include basic networking, PACS, RIS, HIS, DICOM standards, and information security. PREREQ: RADSCI 202.

**RADSCI 340 RADIOGRAPHIC QUALITY ASSURANCE (2-0-2)(S).** Theory and application of quality assurance techniques for radiographic equipment utilizing various quality assurance instruments. Discipline-specific communication activities are included. PREREQ: RADSCI major or PERM/INST.

**RADSCI 350 IMAGING PATHOPHYSIOLOGY (3-0-3)(S).** General survey of various diseases and pathology of the human body as they pertain to radiology. Emphasis on how pathology is demonstrated on medical images and its effect on radiographic diagnosis. PREREQ: RADSCI 242.

**RADSCI 375 RADIOLOGIC SCIENCES CLINICAL EXPERIENCE (0-40-4)(SU).** Supervised clinical experience. PREREQ: RADSCI 285.

**RADSCI 376 RADIOLOGIC SCIENCES CLINICAL EXPERIENCE (0-16-4)(SU).** Supervised clinical experience. PREREQ: RADSCI 375.

**RADSCI 385 RADIOLOGIC SCIENCES CLINICAL EXPERIENCE (0-16-4)(F).** Supervised clinical experience. PREREQ: RADSCI 375.

**RADSCI 386 RADIOLOGIC SCIENCES CLINICAL EXPERIENCE (0-24-6)(F).** Supervised clinical experience. PREREQ: RADSCI 376.

**RADSCI 392 RADIOLOGIC COLLOQUIUM (1-0-1)(S).** Topics will be selected from current health care issues. These topics will be presented for

discussion by appropriate health care professionals. PREREQ: RADSCI major or PERM/INST.

**RADSCI 395 RADIOLOGIC SCIENCES CLINICAL EXPERIENCE (0-16-4)(S).** Supervised clinical experience. PREREQ: RADSCI 385.

**RADSCI 400 DEVELOPMENT OF AN IMAGING DEPARTMENT (3-0-3)(S).** Introduction to the set up and operation of a radiology department including design principles, projection of demands, and providing for growth and development. Structural and shielding requirements will be discussed. PREREQ: PERM/INST.

**RADSCI 405 RADIOLOGIC SCIENCES CLINICAL EXPERIENCE (0-16-4)(SU).** Supervised clinical experience. PREREQ: RADSCI 385.

**RADSCI 406 RADIOLOGIC SCIENCES CLINICAL EXPERIENCE (0-24-6)(S).** Supervised clinical experience. PREREQ: RADSCI 376.

**RADSCI 410 HEALTH PROMOTION AND LEADERSHIP (2-0-2)(S).** Analysis of considerations related to preventative health care measures. Particular emphasis on related imaging procedures and advancement of public awareness. PREREQ: RADSCI 313.

**RADSCI 420 SENIOR RECITATION AND INTEGRATION (0-3-1)(F, S).** An evaluation of the synthesis of advanced radiographic concepts. Identified areas of weakness will be addressed. PREREQ: RADSCI 311.

**RADSCI 425 RADIOLOGIC SCIENCES CLINICAL EXPERIENCE (0-16-4)(F).** Supervised clinical experience. Terminal clinical competency will be validated. PREREQ: RADSCI 405.

**RADSCI 430 COMPARATIVE SECTIONAL IMAGING IN THE RADIOLOGIC SCIENCES (3-0-3)(F/SU).** Identification of basic anatomy on medical images produced by ultrasound, computed tomography, and magnetic resonance. Application will include imaging of the sagittal, coronal, and transverse body planes. Limited to Certified Radiologic Technologists. PREREQ: RADSCI major or admission to imaging sciences major or PERM/INST.

**RADSCI 431 CT RADIATION DOSE AND RISK ANALYSIS (1-0-1)(F, S, SU).** Students will read, critique and correlate current research related to dose considerations due to technical advancements designed to optimize image quality. PREREQ: Accepted into CT Emphasis or PERM INST.

**RADSCI 440 PRINCIPLES OF MAGNETIC RESONANCE IMAGING I (3-0-3)(F).** Provides an introduction to the physical and biological principles of MRI. Includes physics of electricity and magnetism, image production, image weighting and basic pulse sequences as well as safety procedures and bioeffects of MRI. Limited to Certified Radiologic Technologists. PREREQ: PERM/INST.

**RADSCI 440L PRINCIPLES OF MAGNETIC RESONANCE IMAGING I LABORATORY (0-2-1)(F).** Clinical applications of patient positioning, coil selection, choice of pulse sequence parameters, post-processing techniques, cardiac and respiratory gating procedures, and patient assessment and monitoring. COREQ: RADSCI 440.

**RADSCI 441 PROCEDURAL CASE STUDIES IN MAGNETIC RESONANCE IMAGING I (0-3-1)(F).** Use of case studies to demonstrate the correlation of image acquisition and manipulation to common pathologic processes of the musculoskeletal and central nervous systems. COREQ: RADSCI 445.

**RADSCI 442 PRINCIPLES OF MAGNETIC RESONANCE IMAGING II (3-0-3)(S).** Provides a comprehensive overview of advanced physical principles and applications of MRI. Includes MR angiography, spectroscopy, diffusion/perfusion studies, subsecond imaging methods and quality assurance procedures. PREREQ: RADSCI 440.

**RADSCI 442L PRINCIPLES OF MAGNETIC RESONANCE IMAGING II LABORATORY (0-2-1)(S).** Clinical applications to correlate the physical principles of the advanced MRI applications. COREQ: RADSCI 442.

**RADSCI 443 PROCEDURAL CASE STUDIES IN MAGNETIC RESONANCE IMAGING II (0-3-1)(S).** Use of case studies to demonstrate the correlation of image acquisition and manipulation of



common pathologic processes of the thorax, abdomen and vascular systems. COREQ: RADSCI 446.

**RADSCI 445 CLINICAL EXPERIENCE IN MAGNETIC RESONANCE IMAGING I (0-20-4)(F).** Supervised clinical experience in the special imaging area of magnetic resonance. Limited to students in the magnetic resonance imaging program. PRE/COREQ: RADSCI 440.

**RADSCI 446 CLINICAL EXPERIENCE IN MAGNETIC RESONANCE IMAGING II (0-20-4)(S).** Supervised clinical experience in the special imaging area of magnetic resonance. Students will provide evidence of proficiency for required examinations. PREREQ: RADSCI 445.

**RADSCI 450 PRINCIPLES OF COMPUTED TOMOGRAPHY (3-0-3)(F).** Provides descriptive information of the basic principles of physics and instrumentation relative to computed tomography. Historical development, mathematical and physical concepts of operation, component and systems integration, and peripheral apparatus will be included. Limited to Certified Radiologic Technologists. PREREQ: PERM/INST.

**RADSCI 450L PRINCIPLES OF COMPUTED TOMOGRAPHY LABORATORY (0-2-1)(F).** Analysis of application principles relating the physics and instrumentation of computed tomography to the final image. COREQ: RADSCI 450.

**RADSCI 451 PROCEDURAL CASE STUDIES IN COMPUTED TOMOGRAPHY (0-3-1)(F).** Provides discussion and evaluation of current clinical applications in computed tomography, allowing for analysis of procedural variation depending upon patient characteristics and pathologic processes. COREQ: RADSCI 455.

**RADSCI 455 CLINICAL EXPERIENCE IN COMPUTED TOMOGRAPHY (0-20-4)(F).** Supervised clinical experience in a computed tomography imaging facility; Requires performance and documentation of clinical competencies. PRE/COREQ: RADSCI 450. COREQ: RADSCI 451.

**RADSCI 460 SONOGRAPHIC PHYSICS AND INSTRUMENTATION (3-0-3)(F).** Provides the student with a thorough knowledge of basic acoustic physics and its application in the field of diagnostic medical sonography. Content includes an examination of the different types of equipment available for medical ultrasonic procedures, quality control, and safety features. PREREQ: PERM/INST.

**RADSCI 461 ABDOMINAL SONOGRAPHY (3-0-3)(F).** Provides descriptive information on the sonographic procedures of the abdomen, to include: normal sonographic anatomy, pathology, pathophysiology, clinical signs and symptoms of disease, differential diagnosis, equipment set-up, scanning techniques, and echographic patterns of abdominal vasculature. PREREQ: PERM/INST. COREQ: RADSCI 461L.

**RADSCI 461L ABDOMINAL SCANNING LAB (0-3-1)(F).** Laboratory demonstration and practice of the sonographic scanning techniques and anatomy discussed in RADSCI 461. PREREQ: PERM/INST. COREQ: RADSCI 461.

**RADSCI 462 OBSTETRICS/GYNECOLOGY SONOGRAPHY (3-0-3)(S).** Sonographic examination performance and critical analysis of the normal, anomolous and pathologic gravid and non-gravid female pelvis. PREREQ: ENGL 102, PERM/INST.

**RADSCI 463 DOPPLER PROCEDURES (2-0-2)(S).** Provides the foundation needed to understand concepts of producing diagnostic images and information utilizing the various Doppler tools currently available. PREREQ: PERM/INST. COREQ: RADSCI 463L.

**RADSCI 463L DOPPLER PROCEDURES LAB (0-3-1)(S).** Laboratory demonstration and practice of the sonographic scanning techniques and anatomy discussed in RADSCI 463. PREREQ: PERM/INST. COREQ: RADSCI 463.

**RADSCI 464 SPECIAL SONOGRAPHIC PROCEDURES (1-0-1)(S).** Provides descriptive information for special sonographic studies to include imaging of the thyroid, parathyroid, neck masses, superficial structures, breast, male reproductive organs, and chest. Also includes orthopedic, pediatric, ophthalmic, and thoracentesis application. PREREQ: PERM/INST.

**RADSCI 467 CLINICAL EXPERIENCE IN MEDICAL SONOGRAPHY I (0-24-4)(F).** Supervised clinical experience in diagnostic medical sonography. Students will be given the opportunity to apply sonographic theory as presented in lecture. Limited to students in the ultrasound program.

**RADSCI 468 CLINICAL EXPERIENCE IN MEDICAL SONOGRAPHY II (0-24-5)(S).** Supervised clinical experience in diagnostic medical sonography. Students will be given the opportunity to apply sonographic theory as presented in lecture. PREREQ: RADSCI 467.

**RADSCI 469 CLINICAL EXPERIENCE IN MEDICAL SONOGRAPHY III (0-29-6)(SU).** Supervised experience in diagnostic medical sonography. Students will be given the opportunity to apply sonographic theory as presented in lecture. PREREQ: RADSCI 468.

## Department of Respiratory Care

College of Health Sciences | School of Allied Health Sciences

Health Sciences Riverside, Room 207

(208) 426-3316 (phone)

(208) 426-4093 (fax)

respcare@boisestate.edu (email)

<https://www.boisestate.edu/respiratorycare/> (website)

*Chair and Clinical Associate Professor:* Megan Koster. *Bachelor of Science in Respiratory Care Program Director, Director of Research and Professor:* Lonny Ashworth. *Director of Clinical Education and Clinical Associate Professor:* Davis. *Medical Director:* William Ditrach. *Director of Degree Advancement Program and Associate Professor:* Wing. *Associate Professor:* Lester. *Associate Professor:* Anderson. *Clinical Assistant Professors:* Inabnit, Stover. *Clinical Instructor:* Forbush. *Senior Lecturer:* Coyle.

### Degree Offered

- Bachelor of Science in Respiratory Care

### Department Statement

Respiratory care is an allied health specialty concerned with the treatment, management, control, and care of the patient's breathing. The respiratory therapist is a specialist in the use of therapeutic and evaluation techniques in respiratory care. The respiratory care curriculum is a four-year curriculum leading to a bachelor of science degree in Respiratory Care. The bachelor of science degree qualifies students for the examinations of the National Board for Respiratory Care. The Respiratory Care program has been granted accreditation by the Commission on Accreditation for Respiratory Care.

The department also offers an RRT to Bachelor of Science Degree Advancement Program for students who are Registered Respiratory Therapists and who have earned an academic associate of science degree in respiratory care, an associate of applied science degree in respiratory care, or an associate of health science in respiratory care from a regionally accredited college or university other than Boise State University or the equivalent of a bachelor of science degree from an internationally accredited college or university.

### Admission Requirements

- Pre-professional Year (Freshman Year)  
See Chapter 3—*Admissions*, for admission policies.
- Professional Program (Sophomore Year - Senior Year)
  - Only students who have completed or are in the process of completing the pre-professional curriculum (courses listed in the Freshman Year) with a GPA of 2.00 or higher will be considered for acceptance into the Respiratory Care Program.
  - Health status must be adequate to ensure performance of hospital activities in accordance with ADA guidelines.

To protect patients with whom students come in contact and to ensure the continued health of the student, students will be required to provide documentation of immunity and/or current immunity testing. Students entering the program will be given a list of the required documentation at the time of acceptance into the program. Documentation must be on file prior to the first day of classes each August.

All students admitted into the Respiratory Care Program must submit to a criminal background check at their own expense. Information from the background check deemed to be detrimental to the care of patients will result in dismissal from the program. Please see the Respiratory Care Department Policies to obtain more information about this policy.

Students who are accepted into the program must provide documentation of completion of a BLS Healthcare Provider course by the first day of classes in August of the year in which students enter the professional program.

### Application Process

- Pre-professional Year (Freshman Year)  
See Chapter 3—*Admissions*, for admission policies.
- Professional Program (Sophomore Year - Senior Year)
  - All Respiratory Care Program applicants must submit to the Department of Respiratory Care a completed "Special Programs Application." Priority will be given to students who apply on or before March 1 of the year in which they plan to attend the professional program.
  - Applicants may be required to have an interview during the spring semester of the pre-professional year. Contact the department for specific dates.
  - Applicants will be notified of their status by the fourth week of April. Due to the limited number of clinical sites, the program can accept only a limited number of students each year.
  - Specific course fees and/or a professional fee will apply. See online class search for specific fees. All fees are to be paid directly to the Boise State Payment and Disbursement Office.

### Promotion and Graduation

Students who do not meet the following requirements may be removed from the program. Students who do not earn a grade of C- or higher in any respiratory care theory, laboratory, clinical or recitation course will be removed from the program.

- Students must earn at least a C- in every biology, health science, mathematics, chemistry, and respiratory care course.
- A grade of less than a C- in any professional course (HLTH, RESPCARE) must be repeated and raised to a C- or higher.

### Pre-professional Curriculum

All students who are considering entry into the Respiratory Care program must have completed or be in the process of completing the following pre-professional curriculum. Courses in the pre-professional curriculum are denoted with an asterisk (\*) in the degree-requirements tables below. The pre-professional curriculum need not be taken at Boise State.

Transfer students will be required to take UF 200; the advisor must be contacted to ensure the proper section of UF 200.

### Degree Requirements

| Respiratory Care<br>Bachelor of Science   |         |
|---|---------|
| Course Number and Title   | Credits |
| University Foundations requirements indicated in bold. See page 48 for details and lists of approved courses. |         |
| <b>**UF 100</b> Foundations of Intellectual Life  | 3       |
| <b>UF 200</b> Foundations of Ethics and Diversity   | 3       |
| <b>**FW ENGL 101</b> Writing and Rhetoric I   | 3       |
| <b>**FW ENGL 102</b> Writing and Rhetoric II  | 3       |
| <b>**FC</b> Foundations of Oral Communication   | 3       |
| <b>**FM MATH 254</b> Introduction to Statistics   | 3       |
| <b>**FN BIOL 227</b> Human Anatomy and Physiology I   | 4       |
| <b>**FN CHEM 101, 101L</b> Introduction to Chemistry & Lab  | 4       |
| <b>FA</b> Foundations of Arts course  | 3       |
| <b>FH</b> Foundations of Humanities course  | 3-4     |
| <b>**FS</b> Foundations of Social Sciences course   | 3       |
| <b>FS</b> Foundations of Social Sciences course in a second field   | 3       |
| <b>**BIOL 228</b> Human Anatomy and Physiology II   | 4       |
| <b>**HLTH 101</b> Medical Terminology   | 3       |
| <b>HLTH 382</b> Research Methods in Health  | 3       |

|   |         |
|---|---------|
| FF HLTH 400 Interprofessional Capstone  | 1       |
| RESPCARE 105 Interprofessional Patient Care Skills Lab                                    | 2       |
| RESPCARE 203 Foundations of Respiratory Care  | 3       |
| RESPCARE 204 Foundations of Respiratory Care Lab  | 2       |
| RESPCARE 208 Clinical Practicum I   | 1       |
| RESPCARE 217 Pulmonary Assessment   | 1       |
| RESPCARE 220 Cardiopulmonary Renal Physiology   | 3       |
| RESPCARE 221 ECG Interpretation   | 1       |
| RESPCARE 223 Respiratory Care Therapeutics and Introduction to Mechanical Ventilation     | 3       |
| RESPCARE 224 Respiratory Care Therapeutics and Introduction to Mechanical Ventilation Lab | 2       |
| RESPCARE 228 Clinical Practicum II  | 4       |
| RESPCARE 229 Cardiopulmonary Diagnostics  | 3       |
| RESPCARE 250 Recitation and Application II  | 1       |
| RESPCARE 300 Recitation and Application III   | 1       |
| RESPCARE 301 Principles of Pharmacotherapeutics   | 2       |
| RESPCARE 302 General Pathology  | 2       |
| RESPCARE 303 Advanced Mechanical Ventilation  | 3       |
| RESPCARE 304 Advanced Mechanical Ventilation Lab  | 2       |
| RESPCARE 308 Clinical Practicum III   | 5       |
| RESPCARE 323 Neonatal & Pediatric Respiratory Care  | 3       |
| RESPCARE 324 Neonatal & Pediatric Respiratory Care Lab                                    | 1       |
| RESPCARE 328 Clinical Practicum IV  | 5       |
| RESPCARE 329 Cardiopulmonary Diseases & Management  | 3       |
| RESPCARE 376 Culture, Diversity, and Healthcare   | 3       |
| RESPCARE 423 Advanced Neonatal, Pediatric, & Adult Critical Care                          | 3       |
| RESPCARE 432 Critical Review of Health Care Research                                      | 3       |
| RESPCARE 434 Professional Preparation   | 2       |
| RESPCARE 460 Ethics in Critical Illness   | 3       |
| RESPCARE 493 Respiratory Care Internship  | 3       |
| RESPCARE 498 Senior Seminar   | 2       |
| Total   | 121-122 |
| **Indicates a course in the pre-professional curriculum                                   |         |

**Baccalaureate Degree Curriculum** for transfer students who earned an academic associate of science degree in respiratory care from a regionally accredited college or university other than Boise State.

To be admitted to the senior year in respiratory care each student must meet the following criteria:

- Earned an academic associate of science degree in respiratory care from a regionally accredited university or college or the equivalent of a Bachelor of Science in Respiratory Care from an internationally accredited university or college,
- Passed the necessary examinations to be credentialed as a Registered Respiratory Therapist (RRT) by the National Board for Respiratory Care (NBRC) and,
- Have permission of the department chair.

| Respiratory Care, AS Track<br>Bachelor of Science   |         |
|---|---------|
| Course Number and Title   | Credits |
| University Foundations requirements indicated in bold. See page 48 for details and lists of approved courses.   |         |
| Successful completion of Associate of Science, Respiratory Care   | 64      |
| Upper-division challenge credits for passing NBRC RRT Examinations  | 26      |
| <b>FF HLTH 400 Interprofessional Capstone</b>   | 1       |
| RESPCARE 355 Professional Communication in Health Care  | 3       |
| RESPCARE 432 Critical Review of Health Care Research  | 3       |
| RESPCARE 440 Senior Theory: Advanced Concepts   | 3       |
| RESPCARE 441 Teaching Techniques for Health Care Professionals  | 3       |
| RESPCARE 444 Leadership & Mgt for Health Care Professionals   | 3       |
| RESPCARE 445 Patient Advocacy and Ethical Considerations  | 3       |
| RESPCARE 498 Senior Seminar   | 2       |
| Three (3) or more courses chosen from the following:<br>RESPCARE 431 Quality Improvement in Health Care<br>RESPCARE 442 Sleep Medicine<br>RESPCARE 443 Current Topics in Respiratory Disease<br>RESPCARE 446 Introduction to Disease Management | 9       |
| Total   | 120     |

**Baccalaureate Degree Curriculum** for transfer students who earned an associate of applied science degree in respiratory care or an associate of health science degree in respiratory care from a regionally accredited college or university other than Boise State.

To be admitted to the senior year in respiratory care each student must meet the following criteria:

- Earned an associate of applied science degree in respiratory care or an associate of health science degree in respiratory care from a regionally accredited university,
- Passed the necessary examinations to be credentialed as a Registered Respiratory Therapist (RRT) by the National Board for Respiratory Care (NBRC) and,
- Have permission of the department chair.

| Respiratory Care, AAS or AHS Track<br>Bachelor of Science   |         |
|---|---------|
| Course Number and Title   | Credits |
| University Foundations requirements indicated in bold. See page 48 for details and lists of approved courses. |         |
| <b>UF 200 Foundations of Ethics and Diversity</b>   | 3       |
| <b>FW ENGL 101 Writing and Rhetoric I</b>   | 3       |
| <b>FW ENGL 102 Writing and Rhetoric II</b>  | 3       |
| <b>FC Foundations of Oral Communication</b>   | 3       |
| <b>FM Foundations of Mathematics course</b>   | 3-4     |
| <b>FN BIOL 227 Human Anatomy and Physiology I</b>   | 4       |
| <b>FN Foundations of Natural, Physical, &amp; Applied Sciences course in a second field</b>                   | 3-4     |
| <b>FA Foundations of Arts course</b>  | 3       |
| <b>FH Foundations of Humanities course</b>  | 3-4     |
| <b>FS Foundations of Social Sciences course</b>   | 3       |
| <b>FS Foundations of Social Sciences course in a second field</b>   | 3       |

## RESPIRATORY CARE

|   |         |
|---|---------|
| Successful completion of Associate of Applied Science or Associate of Health Science, Respiratory Care  | 35      |
| Upper-division challenge credits for passing NBRC RRT Examinations  | 26      |
| FF HLTH 400 Interprofessional Capstone  | 1       |
| RESPCARE 355 Professional Communication in Health Care  | 3       |
| RESPCARE 432 Critical Review of Health Care Research  | 3       |
| RESPCARE 440 Senior Theory: Advanced Concepts   | 3       |
| RESPCARE 441 Teaching Techniques for Health Care Professionals  | 3       |
| RESPCARE 444 Leadership & Mgt for Health Care Professionals   | 3       |
| RESPCARE 445 Patient Advocacy and Ethical Considerations  | 3       |
| RESPCARE 498 Senior Seminar   | 2       |
| Three (3) or more courses chosen from the following:<br>RESPCARE 431 Quality Improvement in Health Care<br>RESPCARE 442 Sleep Medicine<br>RESPCARE 443 Current Topics in Respiratory Disease<br>RESPCARE 446 Introduction to Disease Management | 9       |
| Total   | 125-128 |

**Baccalaureate Degree Curriculum** for students who earned an associate of science degree in respiratory care (or respiratory therapy) from Boise State.

To be admitted to the senior year in respiratory care each student must meet the following criteria:

- Earned an academic associate of science degree in respiratory care (or respiratory therapy) from Boise State,
- Passed the necessary examinations to be credentialed as a Registered Respiratory Therapist (RRT) by the National Board for Respiratory Care (NBRC), and
- Have permission of the department chair.

| Respiratory Care, Boise State AS Track Bachelor of Science  |                |
|---|----------------|
| <i>Course Number and Title</i>  | <i>Credits</i> |
| University Foundations requirements indicated in bold. See page 48 for details and lists of approved courses.   |                |
| Successful completion of Associate of Science, Respiratory Care (or Respiratory Therapy) from Boise State University.   | 103            |
| FF HLTH 400 Interprofessional Capstone  | 1              |
| RESPCARE 432 Critical Review of Health Care Research  | 3              |
| RESPCARE 355 Professional Communication in Health Care  | 3              |
| RESPCARE 440 Senior Theory: Advanced Concepts   | 3              |
| Three (3) courses chosen from the following:<br>RESPCARE 431 Quality Improvement in Health Care<br>RESPCARE 441 Teaching Techniques for Health Care Professionals<br>RESPCARE 442 Sleep Medicine<br>RESPCARE 443 Current Topics in Respiratory Disease<br>RESPCARE 444 Leadership & Mgt for Health Care Professionals<br>RESPCARE 445 Patient Advocacy and Ethical Considerations<br>RESPCARE 446 Introduction to Disease Management<br>RESPCARE 498 Senior Seminar | 8-9            |
| Total   | 121-122        |

## Course Offerings

### RESPCARE—Respiratory Care

#### Lower Division

**RESPCARE 105 INTERPROFESSIONAL PATIENT CARE SKILLS LAB (1-4-2)(F).** An interprofessional disciplinary team approach is used to teach basic patient care skills and interventions to restore and protect health. (Pass/Fail.)

**RESPCARE 203 FOUNDATIONS OF RESPIRATORY CARE (3-0-3)(F).** Theory and application of physics, chemistry, basic therapeutics, and disease management for respiratory therapists. Topics to include oxygen and carbon dioxide transport, humidity, aerosol therapy, airway clearance, hyperinflation, medical gasses, and patient monitoring. COREQ: RESPCARE 204, RESPCARE 208.

**RESPCARE 204 FOUNDATIONS OF RESPIRATORY CARE LAB (1-2-2)(F).** Equipment and basic therapeutics for respiratory care. Compressed gas cylinders, oxygen delivery devices, hyperinflation, airway clearance techniques, pulse oximetry, capnography, large and small volume nebulizers, MDI/DPI devices, and introduction to artificial airways. COREQ: RESPCARE 203, RESPCARE 208.

**RESPCARE 208 CLINICAL PRACTICUM I (0-3-1)(F).** Experience in the hospital with patients, techniques, and equipment. Emphasis on use of medical gases. COREQ: RESPCARE 203, RESPCARE 204.

**RESPCARE 217 PULMONARY ASSESSMENT (1-0-1)(F).** Theory and application of basic pulmonary assessment including inspection, palpation, percussion, and auscultation. PREREQ: BIOL 227-228.

**RESPCARE 220 CARDIOPULMONARY RENAL PHYSIOLOGY (3-0-3)(F).** Normal and clinical physiological functions of the pulmonary, circulatory and renal systems. PREREQ: BIOL 227-228.

**RESPCARE 221 ECG INTERPRETATION (1-0-1)(S).** Basic interpretation of the electrocardiogram and recognition of cardiac arrhythmias. PREREQ: BIOL 227-228.

**RESPCARE 223 RESPIRATORY CARE THERAPEUTICS AND INTRODUCTION TO MECHANICAL VENTILATION (3-0-3)(S).** Principles and application of hyperinflation therapy, chest physiotherapy, medication calculation, arterial blood gas interpretation and an introduction to adult mechanical ventilation. PREREQ: RESPCARE 203. COREQ: RESPCARE 224, RESPCARE 228, RESPCARE 250.

**RESPCARE 224 RESPIRATORY CARE THERAPEUTICS AND INTRODUCTION TO MECHANICAL VENTILATION LAB (1-2-2)(S).** Use and application of hyperinflation therapy devices, chest physiotherapy, suction devices, oral endotracheal intubation and adult mechanical ventilation. PREREQ: RESPCARE 203. COREQ: RESPCARE 223, RESPCARE 228, RESPCARE 250.

**RESPCARE 228 CLINICAL PRACTICUM II (0-12-4)(S).** Experience in the hospitals with patients, techniques, and equipment used in hyperinflation therapy and chest physiotherapy. PREREQ: RESPCARE 203. COREQ: RESPCARE 223, RESPCARE 224, RESPCARE 250.

**RESPCARE 229 CARDIOPULMONARY DIAGNOSTICS (3-0-3)(S).** Students will develop foundational knowledge regarding gathering and interpretation of laboratory tests, radiographic images and cardiopulmonary diagnostics. PREREQ: RESPCARE 220.

**RESPCARE 248 SUMMER CLINICAL PRACTICUM (0-V-V)(SU).** Experience in critical care units with patients, techniques and equipment as applied to mechanical ventilation and artificial airways. (Pass/Fail.) PREREQ: RESPCARE 228 and PERM/INST.

**RESPCARE 250 RECITATION AND APPLICATION II (1-0-1)(S).** Review, discussion, and application of information presented in theory and lab with reference to clinical situations. PREREQ: RESPCARE 203. COREQ: RESPCARE 223, RESPCARE 224, RESPCARE 228.

## Upper Division

**RESPCARE 300 RECITATION AND APPLICATION III (1-0-1)(F).** Review, discussion, and application of information presented in theory and lab with reference to clinical situations. PREREQ: RESPCARE 223. COREQ: RESPCARE 303, RESPCARE 304, RESPCARE 308.

**RESPCARE 301 PRINCIPLES OF PHARMACOTHERAPEUTICS (2-0-2)(F).** Principles, practical uses, and interaction of drugs and their relationship to disease. PREREQ: BIOL 227-228.

**RESPCARE 302 GENERAL PATHOLOGY (2-0-2)(S).** Human pathology pertaining to systems of defense, modes of injury, diseases of development and function, heart, hematopoietic lymphoreticular, and respiratory systems. PREREQ: BIOL 227-228.

**RESPCARE 303 ADVANCED MECHANICAL VENTILATION (3-0-3)(F).** Theory and clinical application of advanced mechanical ventilation of the adult, including care and management of artificial airways, and clinical application of hemodynamic monitoring. PREREQ: RESPCARE 223. COREQ: RESPCARE 300, RESPCARE 304, RESPCARE 308.

**RESPCARE 304 ADVANCED MECHANICAL VENTILATION LAB (1-2-2)(F).** In-depth practice, application and understanding of a variety of state-of-the-art critical care ventilators used to ventilate adults. PREREQ: RESPCARE 223. COREQ: RESPCARE 300, RESPCARE 303, RESPCARE 308.

**RESPCARE 308 CLINICAL PRACTICUM III (0-16-5)(F).** Experience in the hospital with patients, techniques, and equipment as applied to mechanical ventilation and artificial airways. PREREQ: RESPCARE 223. COREQ: RESPCARE 300, RESPCARE 303, RESPCARE 304.

**RESPCARE 323 NEONATAL AND PEDIATRIC RESPIRATORY CARE (3-0-3)(S).** Theory and application of therapeutic techniques specific to neonatal and pediatric patients. Congenital heart disease, prematurity, infant respiratory distress syndrome, pediatric specific disease processes. PREREQ: RESPCARE 303. COREQ: RESPCARE 324, RESPCARE 328, RESPCARE 460.

**RESPCARE 324 NEONATAL AND PEDIATRIC RESPIRATORY CARE LAB (0-2-1)(S).** Equipment and mechanical ventilators specific to neonatal and pediatric patients. High frequency ventilation, neonatal resuscitation, exogenous surfactant, basic care of neonates, and pediatric specific ventilation techniques. PREREQ: RESPCARE 303. COREQ: RESPCARE 323, RESPCARE 328, RESPCARE 460.

**RESPCARE 328 CLINICAL PRACTICUM IV (0-16-5)(S).** Experience in the hospital and other health care environments with any or all aspects of respiratory care. PREREQ: RESPCARE 303. COREQ: RESPCARE 323, RESPCARE 324, RESPCARE 460.

**RESPCARE 329 CARDIOPULMONARY DISEASES AND MANAGEMENT (3-0-3)(S).** Emphasis placed on cardiopulmonary conditions, disease states, practices and special procedures encountered in hospital, out-patient and rehabilitation setting. Case studies/problem-based learning will be used to develop students who can gather and synthesize information for comprehensive approach to the practice of respiratory care. PREREQ: RESPCARE 229.

**RESPCARE 355 PROFESSIONAL COMMUNICATIONS IN HEALTH CARE (3-0-3)(F, S, SU).** Focus on professional written and oral communication as practiced within the scope of respiratory care. Develop audience specific written documents, including writing that is appropriate for a professional journal or conference, and prepare, deliver, and evaluate oral presentations. PREREQ: Admission to BSRC Degree Advancement Program.

**RESPCARE 376 CULTURE, DIVERSITY, AND HEALTHCARE (3-0-3)(S).** Examine the influence of social, cultural, and religious beliefs on health in multicultural and diverse groups. Students will learn how to respond and navigate to these multicultural and diverse groups in a healthcare setting.

**RESPCARE 423 ADVANCED NEONATAL, PEDIATRIC, AND ADULT CRITICAL CARE (3-0-3)(F).** Theory and clinical application of advanced neonatal, pediatric and adult critical care management including high frequency ventilation, early mobility, ECLS and ICU Delirium. PREREQ: RESPCARE 323. COREQ: RESPCARE 434, RESPCARE 498.

**RESPCARE 431 QUALITY IMPROVEMENT IN HEALTH CARE (3-0-3)(F, S, SU).** Introduction and evaluation of current approaches to assessing risk and improving health care quality through the practice of continuous quality improvement. Focuses on conceptual understanding and experiential learning. PRE/COREQ: RESPCARE 355 or PERM/INST.

**RESPCARE 432 CRITICAL REVIEW OF HEALTH CARE RESEARCH (3-0-3)(F, S, SU).** Locating, selecting, and critically reviewing medical and lay literature relevant to the practice of health care. Constructing and researching clinical questions. Skills for keeping abreast of new medical information, deciding which of this information is valid and applicable to patient care, and using this information to improve patient care. PREREQ: HLTH 210, RESPCARE 223, or PRE/COREQ: RESPCARE 355 or PERM/INST.

**RESPCARE 434 PROFESSIONAL PREPARATION (2-0-2)(F).** Culmination of portfolio development; review and preparation for credentialing examinations offered by the National Board for Respiratory Care. Emphasis will be placed on understanding of branching-logic examinations as well as computer-based, multiple-choice examinations related to clinical practice of respiratory care. COREQ: RESPCARE 423, RESPCARE 498.

**RESPCARE 440 SENIOR THEORY: ADVANCED CONCEPTS (3-0-3)(F, S, SU).** Techniques and methods used to analyze and evaluate the health status of critically ill patients with emphasis on the respiratory and cardiovascular systems. PRE/COREQ: RESPCARE 355 or PERM/INST.

**RESPCARE 441 TEACHING TECHNIQUES FOR HEALTH CARE PROFESSIONALS (3-0-3)(F, S, SU).** An interactive, online course designed to provide health care professionals with the skills needed to provide effective peer and client education. PRE/COREQ: RESPCARE 355 or PERM/INST.

**RESPCARE 442 SLEEP MEDICINE (3-0-3)(F, S, SU).** Overview of sleep medicine, anatomy and physiology of sleep and breathing. Introduction to sleep disorders and polysomnography including monitoring techniques and instrumentation. PRE/COREQ: RESPCARE 355 or PERM/INST.

**RESPCARE 443 CURRENT TOPICS IN RESPIRATORY DISEASE (3-0-3)(F, S, SU).** Discussion of current issues related to respiratory disease, including pathophysiology, management and outcomes. PRE/COREQ: RESPCARE 355 or PERM/INST.

**RESPCARE 444 LEADERSHIP AND MANAGEMENT FOR HEALTH CARE PROFESSIONALS (3-0-3)(F, S, SU).** Extensive examination of current practices/trends of techniques used in the leadership of the health care environment. Emphasis will be placed upon specific skill sets used by the managers of today's workforce. PRE/COREQ: RESPCARE 355 or PERM/INST.

**RESPCARE 445 PATIENT ADVOCACY AND ETHICAL CONSIDERATIONS (3-0-3)(F, S, SU).** An advanced exploration of the responsibilities required of health care practitioners. Designed to help students develop a clearer understanding of patient's rights and in turn become advocates for those rights. PRE/COREQ: RESPCARE 355 or PERM/INST.

**RESPCARE 446 INTRODUCTION TO DISEASE MANAGEMENT (3-0-3)(F, S, SU).** An introduction to the purpose and application of disease management in patients with chronic illness. Emphasis will be on management of individuals with COPD, sleep disordered breathing, asthma and congestive heart failure. Discharge planning, patient education, disease management strategies and methods to reduce hospital readmissions will be discussed. PRE/COREQ: RESPCARE 355 or PERM/INST.

**RESPCARE 460 ETHICS IN CRITICAL ILLNESS (3-0-3)(S).** An investigation and discussion of ethical issues that can arise during critical illness and how practitioners navigate these issues. COREQ: RESPCARE 324, RESPCARE 328.

**RESPCARE 493 RESPIRATORY CARE INTERNSHIP (0-V-V)(F, S, SU).** Supervised practice in various health care facilities. PREREQ: RESPCARE 323 and PERM/INST.

**RESPCARE 498 SENIOR SEMINAR (2-0-2)(F, S, SU).** Online discussions of topics related to respiratory care. PREREQ: RESPCARE 323, or PRE/COREQ: RESPCARE 355, or PERM/INST.

## Rhetoric and Advocacy

College of Arts and Sciences

Program Coordinator: erin McClellan

### Program Offered

- Minor in Rhetoric and Advocacy

### Program Requirements

| Rhetoric and Advocacy Minor  |           |
|--|-----------|
| Course Number and Title  | Credits   |
| Introducing Rhetoric<br>Choose 2 of the following courses:<br>COMM 231 Public Speaking<br>COMM 321 Rhetorical Theories<br>COMM 332 Contemporary Public Communication<br>ENGL 304 Argument<br>ENGL 324 Topics in Writing, Rhetoric, and Technical Communication   | 6         |
| Introducing Advocacy<br>Choose 2 of the following courses:<br>COMM 377 Advanced Public Presentation<br>COMM 412 History of Persuasion<br>COMM 484 Studies in Rhetoric and Public Advocacy<br>ENGL 221 Literature and Advocacy<br>ENGL 425 Rhetoric and Society   | 6         |
| Introducing Socio-Cultural Issues<br>Choose 2 of the following courses:<br>COMM 351 Intercultural Communication<br>COMM 371 Communication, Gender, and Difference<br>COMM 488 Studies in Communication and Culture<br>ENGL 216 Literature and Global Consciousness<br>ENGL 396 Postcolonial Literature<br>SOC 305 Racial and Cultural Minorities<br>SOC 361 Sociology of Work<br>SOC 371/GENDER 371 The Social Psychology of Gender  | 6         |
| Topics in Rhetoric and Advocacy<br>Choose 2 courses from the following:<br>COMM 332 Contemporary Public Communication<br>COMM 371 Communication, Gender, and Difference<br>COMM 377 Advanced Public Presentation<br>COMM/CONFLICT/SOC 390 Conflict Management<br>COMM 412 History of Persuasion<br>COMM 435 Collaboration and Facilitation<br>COMM 484 Studies in Rhetoric and Public Advocacy<br>COMM 488 Studies in Communication and Culture<br>ENGL 390 Ethnic Literature<br>ENGL 392 Film and Literature<br>ENGL 395 Women Writers<br>SOC 201 Theories of Society<br>SOC 290 Social Conflict and Peacemaking<br>SOC 380 Political Sociology<br>SOC 403 Social Change<br>SOC 421 Social Inequality<br>SOC 425 Urban Sociology<br>SOC 426 Rural Sociology<br>(Courses used to satisfy requirements in previous sections may not be used to satisfy credits in this section) | 6         |
| <b>Total</b>   | <b>24</b> |
| To complete the minor, courses selected must be from English, communication, and sociology.  |           |

## School of Social Work

College of Health Sciences

Education Building, Room 716

(208) 426-1568 (phone)

(208) 426-4291 (fax)

<https://www.boisestate.edu/socialwork/> (website)

*Director and Professor:* Randy Magen. *BA Coordinator and Associate Professor:* Susan Esp. *Director of Field Education:* Raymond Mullenax. *Professor:* Powers, Sanders. *Associate Professors:* Allen, Chonody, Hutson, Kenaley, Liley. *Assistant Professors:* Beauchemin, O'Reilly, Williams, Witt. *Clinical Assistant Professor:* Enger, Hatch, Obenshain, Watsen.

### Degrees and Certificates Offered

- Bachelor of Arts in Social Work
- Minor in Addictions Studies

### School Statement

The baccalaureate degree program in social work has been accredited by the Council on Social Work Education since 1974. A major in social work prepares students for beginning generalist, strength-based social work practice, graduate level social work education, and social work licensure.

Social work is a profession that is indispensable in contemporary society. Social workers help people cope with the stresses and challenges of everyday life.

Students are prepared to work with individuals, families, groups, organizations, and communities to address issues of coping and emotional support and also deal with broader challenges—such as violence and social inequality—that affect all people. Students earning a bachelor's degree in social work practice in a variety of social welfare settings and with a variety of populations.

The School does not approve academic credit for prior work or life experience. Students accepted into the Undergraduate Social Work Program will be required to submit to multiple criminal background clearances and drug and alcohol clearances at their own expense throughout the program. Information obtained from the background clearances deemed to be detrimental to social work practice will result in dismissal from the program. More information can be found on the School of Social Work's website, <https://www.boisestate.edu/socialwork/>.

The Bachelor of Arts in Social Work can also be earned at Boise State's regional site in Twin Falls at the College of Southern Idaho.

### Admission to the Professional Curriculum

Students who wish to enroll in the professional curriculum in social work must first apply and be accepted to upper-division status (candidacy) for the BA degree in social work (BSW degree). The School welcomes diversity and invites interest and applications from persons who seek to participate in a profession committed to helping people. Admission to candidacy for the BSW degree is determined by:

- Faculty evaluation of student applications.
- Courses required for BSW program candidacy completed with a C or higher unless otherwise noted: ENGL 101-102, Foundations: UF 100, UF 200, Mathematics FM course, two Natural, Physical and Applied Science (FN) courses (one must be BIOL 100 or BIOL 107 or BIOL 191 or BIOL 227), Visual and Performing Art (FA) course, Literature and Humanities (FH) course, social sciences courses: SOCWRK 101 (earning a B or higher), COMM 101, POLS 101, PSYC 101, SOC 101, SOC 230, SOCWRK 201 (earning a B or higher), and ECON 201 or ECON 202.
- Minimum cumulative GPA of 2.50 OR a minimum GPA of 2.80 during the two contiguous semesters of full-time enrollment of 12 or more credits prior to application.

In order to maintain candidacy status, students must have a GPA of 3.00 or higher in required social work courses.

## Application Procedures

The School of Social Work reviews and approves applications for admission to BSW upper-division status (candidacy) each October for the Boise program and March for both the Boise and Twin Falls programs. Applications for students to begin upper-division coursework in the following Spring semester should apply by the first Friday of October. To begin upper-division courses the following Fall semester students should apply by the first Friday of March. Students may apply for upper-division status (candidacy) during the semester in which they are completing their 52-55 prerequisite credit hours. However, due to the competitive admission process students are highly encouraged to meet with a social work academic advisor prior to applying to the program. Interested students may obtain current application materials and procedures at the Social Work office or on the School of Social Work web page (<https://www.boisestate.edu/socialwork/>).

## Degree Requirements

| Social Work Bachelor of Arts  |         |
|---|---------|
| Course Number and Title   | Credits |
| University Foundations requirements indicated in bold. See page 48 for details and lists of approved courses.   |         |
| <b>UF 100</b> Foundations of Intellectual Life  | 3       |
| <b>UF 200</b> Foundations of Ethics and Diversity   | 3       |
| <b>FW ENGL 101</b> Writing and Rhetoric I   | 3       |
| <b>FW ENGL 102</b> Writing and Rhetoric II  | 3       |
| <b>FC</b> Foundations of Oral Communication (COMM 101 recommended)  | 3       |
| <b>FM</b> Foundations of Mathematics course   | 3-4     |
| <b>FN BIOL 100</b> Concepts of Biology or<br><b>FN BIOL 107</b> Introduction to Human Biology or<br><b>FN BIOL 191</b> Biology I: Intro to Cell & Molecular Biology or<br><b>FN BIOL 227</b> Human Anatomy and Physiology I | 4       |
| <b>FN</b> Foundations of Natural, Physical, & Applied Sciences course in a second field   | 3-4     |
| <b>FA</b> Foundations of Arts course  | 3       |
| <b>FH</b> Foundations of Humanities course  | 3-4     |
| <b>FS PSYC 101</b> Introduction to Psychology   | 3       |
| <b>FS SOCWRK 101</b> Introduction to Social Welfare   | 3       |
| <b>ECON 201</b> Principles of Macroeconomics or<br><b>ECON 202</b> Principles of Microeconomics   | 3       |
| <b>POLS 101</b> American National Government  | 3       |
| <b>SOC 101</b> Introduction to Sociology  | 3       |
| <b>SOC 230</b> Introduction to Ethnic Studies   | 3       |
| <b>SOCWRK 201</b> Foundations of Social Work  | 3       |
| <b>SOCWRK 301</b> Social Welfare Policy   | 3       |
| <b>SOCWRK 320</b> Human Behavior in Social Environment I  | 3       |
| <b>SOCWRK 333</b> Generalist Social Work Practice I: Individuals  | 3       |
| <b>SOCWRK 380</b> Social Work Research Methods and Statistics   | 3       |
| <b>SOCWRK 420</b> Human Behavior in Social Environment II   | 3       |
| <b>SOCWRK 444</b> Generalist Social Work Practice II: Families and Groups   | 3       |
| <b>SOCWRK 455</b> Generalist Social Work Practice III: Organizations and Communities  | 3       |
| <b>SOCWRK 480, 481</b> Social Work Field Practicum I & II   | 10      |
| <b>FF SOCWRK 498</b> Senior Seminar I   | 1       |
| <b>FF SOCWRK 499</b> Senior Seminar II  | 1       |

|   |       |
|---|-------|
| Upper-division Social Work electives  | 3     |
| Diversity Cluster courses chosen from: ANTH 307, ANTH 320, BASQ-STD 335, CANSTD 302, COMM 351, ED-LLC 200, ED-LLC 205, ED-ESP 250, ENGL 216, ENGL 395, GENDER 200, GENDER 303, GEOG 200, HIST 262, HIST 310, HIST 324, HIST 326, HIST 341, HIST 346, HIST 348, HIST 349, HIST 363, HIST 368, HIST 369, HIST 371, HIST 372, HIST 373, HIST 375, HLTH 410, INTBUS 230, KINES 242, PSYC 219, PSYC 229, PSCY 261, PSYC 419, SOC 305, SOC 306, SOC 307, SOC 330, SOC 332, SOC 333, SOC/GENDER 371, SOC 471/GENDER 301, SOC 421, SOC 425, SOC 426, SOC 440, SOC 472, SOC 481, SOCWRK 407, SOCWRK 408, SOCWRK 409, SOCWRK 410, SOCWRK 411, SOCWRK 412, World Languages | 6-8   |
| Upper-division electives to total 40 credits  | 0-4   |
| Electives to total 120 credits  | 21-22 |
| Total   | 120   |

Supervised internship hours are required for students seeking the Idaho Certified Alcohol Drug Counselor (CADC) certification. See <http://ibadcc.org/> for guidance. The CADC certification requires internship hours beyond the coursework required for the CADC. The requirements for certification can be accessed through the Idaho Board for Alcohol/Drug Counselor's website.

| Addictions Studies Minor  |         |
|---|---------|
| Course Number and Title   | Credits |
| ADST 109 Drugs: Use and Abuse   | 3       |
| ADST 255 Introduction to the Field of Addictions  | 3       |
| ADST 258 Blood Borne Pathogens for Addictions Professionals   | 1       |
| ADST 444 Addiction and the Family System  | 3       |
| ADST 448 Motivational Interviewing  | 3       |
| ADST 464 Screening & Assessment of Alcohol & Drug Problems  | 3       |
| ADST 465 Assessment and Case Management of Alcohol and Drug Problems  | 3       |
| ADST 468 Group Process for Addictions Professionals   | 3       |
| ADST 469 Ethics for Addictions Professionals  | 3       |
| One (1) of the following:<br>PSYC 301 Abnormal Psychology<br>PSYC 310 Adolescent & Adult Development (recommended)<br>PSYC 331 The Psychology of Health | 3       |
| Total   | 28      |

## Course Offerings

### ADST—Addiction Studies

#### Lower Division

**ADST 109 DRUGS: USE AND ABUSE (3-0-3)(F, S, SU).** An introductory course which deals with the basic medical, social, and psychopharmacological considerations related to the use of therapeutic and non-therapeutic (recreational) drugs.

**ADST 255 INTRODUCTION TO THE FIELD OF ADDICTIONS (3-0-3)(F, S, SU).** Addictions, impact of drugs on society, treatment modalities, and career opportunities. PREREQ: ADST 109.

**ADST 258 BLOOD BORNE PATHOGENS FOR ADDICTIONS PROFESSIONALS (1-0-1)(S).** Overview of blood-borne pathogens and high-risk behaviors.

#### Upper Division

**ADST 444 ADDICTION AND THE FAMILY SYSTEM (3-0-3)(F, S).** Examination of multigenerational impact of addiction (drugs, alcohol, work, religion, Internet, gambling, etc. ) on the family system. In addition to

## SOCIAL WORK

dysfunctional roles developed to cope with addiction, class also compares and contrasts communication strategies and parenting styles of unhealthy and healthy family systems. Risk and protective factors, stages of change, and continuum of care from prevention, intervention, treatment and aftercare are addressed. PREREQ: Upper-division standing.

**ADST 448 MOTIVATIONAL INTERVIEWING (3-0-3)(F/S).** Introduces students to the concepts and practice of Motivational Interviewing (MI) in health care settings, including behavioral health and primary care settings. Apply the core concepts of MI and practice of a Brief Negotiated Interview (BNI) for health behaviors. PREREQ: Upper-division standing.

**ADST 464 SCREENING AND ASSESSMENT OF ALCOHOL AND DRUG PROBLEMS (3-0-3)(F).** Screening and assessment tools/procedures, and interventions for substance abuse. Legal, social, ethical, and health implication. PREREQ: Upper-division undergraduate or graduate standing.

**ADST 465 ASSESSMENT AND CASE MANAGEMENT OF ALCOHOL AND DRUG PROBLEMS (3-0-3)(S).** Emphasis on case management techniques. Continued legal, social, ethical, and health implications. PREREQ: ADST 464.

**ADST 468 GROUP PROCESS FOR ADDICTIONS PROFESSIONALS (3-0-3)(F/S).** Introduction to group counseling provides basic knowledge of group process and practice. Covers theory behind types and stages of groups, facilitating a group, ethical and behavioral standards, confidentiality, and management of groups. PREREQ: Upper-division standing.

**ADST 469 ETHICS FOR ADDICTIONS PROFESSIONALS (3-0-3)(S).** Ethical principles and practices of addictions counseling. Emphasis on confidentiality, reporting, and dual relationships. PREREQ: Upper-division standing.

### REFUGEE—Refugee Services

**REFUGEE 407 (SOCWRK 407) PRINCIPLES OF REFUGEE RESETTLEMENT (3-0-3)(F/S).** Explores the resettlement process in the United States. Provides knowledge and skills needed to assist in the resettlement experience of refugees. Examination of personal values and beliefs and their impacts on practice are integral. May be taken for REFUGEE or SOCWRK credit, but not both. PREREQ: Admission to BSW candidacy or PERM/INST.

**REFUGEE 408 (SOCWRK 408) WORKING WITH REFUGEES ACROSS CULTURES (3-0-3)(F/S).** Provides a framework and skills practice for effective and competent cross-cultural practice with refugees in the human services. May be taken for REFUGEE or SOCWRK credit, but not both. PREREQ: Admission to BSW candidacy or PERM/INST.

**REFUGEE 409 (SOCWRK 409) CASE MANAGEMENT WITH REFUGEES (3-0-3)(S).** Case management knowledge and skills as applied in refugee serving agencies such as refugee resettlement, health settings and mental health agencies. May be taken for REFUGEE or SOCWRK credit, but not both. PRE/COREQ: REFUGEE/SOCWRK 407, REFUGEE/SOCWRK 408.

**REFUGEE 410 (SOCWRK 410) INTRODUCTION TO REFUGEE PROGRAM SUPERVISION AND MANAGEMENT (3-0-3)(S).** Explores a variety of programs serving refugees including the statutory foundation for programs, financing, grant writing, and budget management. Prepares students with the knowledge and skills required for supervising staff and volunteers. May be taken for REFUGEE or SOCWRK credit, but not both. PRE/COREQ: REFUGEE/SOCWRK 407, REFUGEE/SOCWRK 408.

**REFUGEE 411 (SOCWRK 411) ADVANCED REFUGEE MACRO PRACTICE (3-0-3)(F).** Covers the current policy issues related to refugee resettlement; follows any legislation related to refugees that is in process at the federal and state levels; and teaches strategies for effective community change and advocacy. May be taken for REFUGEE or SOCWRK credit, but not both. PRE/COREQ: REFUGEE/SOCWRK 407, REFUGEE/SOCWRK 408.

**REFUGEE 412 (SOCWRK 412) MACRO PRACTICE CAPSTONE CLASS (3-0-3)(S).** A service or research project is selected and implemented that will address a need related to refugees. May be taken for REFUGEE or

SOCWRK credit, but not both. PRE/COREQ: REFUGEE/SOCWRK 407, REFUGEE/SOCWRK 408, and REFUGEE/SOCWRK 409 or REFUGEE/SOCWRK 410 or REFUGEE/SOCWRK 411.

### SOCWRK—Social Work

#### Lower Division

**SOCWRK 101 INTRODUCTION TO SOCIAL WELFARE (3-0-3)(F/S) (FS).** Survey and critical analysis of contemporary social welfare policies and programs, their historical development, underlying philosophy, and the need for social services in modern society with particular attention to issues of oppression and discrimination.

**SOCWRK 201 FOUNDATIONS OF SOCIAL WORK (2-3-3)(F/S/SU).** Introduction to generalist social work practice including a history of the profession, an overview of the generalist intervention model with a focus on strengths, engagement, relationship building, exploration of problems, and interviewing. Service learning component of 45 clock hours in approved social service organization. PREREQ: SOCWRK 101.

**SOCWRK 293 SOCIAL WORK INTERNSHIP (F/S).** Provides practical, on-the-job social work experience in a social services agency. Forty-five hours worked equals one credit hour; no retroactive credits earned. Maximum of six internship credits per semester; maximum of twelve internship credits applied to degree. Internships are excluded from fulfilling six credits of upper-division social work electives; they can fulfill general electives only. With approval of internship coordinator.

#### Upper Division

**SOCWRK 301 SOCIAL WELFARE POLICY (3-0-3)(F/S).** Explores the effects of social welfare policy by analyzing current policy within the context of historical and contemporary factors that shape it, by considering the political and organization processes used to influence policy; the process of policy formulation; and social policy analysis frameworks in light of principles of social and economic justice and evidence-based knowledge. Policy practice skills are developed. PREREQ: Admission to BSW candidacy.

**SOCWRK 320 HUMAN BEHAVIOR AND THE SOCIAL ENVIRONMENT I (3-0-3)(F, S).** Provides knowledge of empirically based theories that focus on the interactions between and among individuals, groups, societies and economic systems. Learn and apply life span theories and knowledge. Examines social systems in which people live and their influence in maintaining or achieving health and well-being. Explores the consequences of difference on a person's life experiences. PREREQ: Admission to BSW candidacy.

**SOCWRK 333 GENERALIST SOCIAL WORK PRACTICE I: INDIVIDUALS (3-0-3)(S).** Social work practice with individuals from a generalist perspective integrating human behavior theories with the generalist intervention models of practice with a focus on strengths, demonstration of ethical and professional behavior, cultural humility, engagement of diversity and difference in practice, enhancement of micro interviewing skills, assessment, goal setting, planning and implementation of empirically-based interventions, and evaluation of practice. PREREQ: Admission to BSW Candidacy and SOCWRK 201. PRE/COREQ: SOCWRK 301.

**SOCWRK 380 SOCIAL WORK RESEARCH METHODS AND STATISTICS (3-0-3)(F/S).** Introduction to qualitative and quantitative research methodology and statistics for an understanding of scientific, analytic, ethical, and culturally sensitive approaches to building knowledge for generalist social work practice. Use and translate research evidence to inform and improve practice, policy, and service delivery. PREREQ: Upper-division standing and FM math course and Admission to BSW program or PERM/INST.

**SOCWRK 405 CASE MANAGEMENT (3-0-3)(S).** Develops skill and knowledge in generalist social work practice case management services. COREQ: SOCWRK 481 or PERM BSW Program Coordinator.

**SOCWRK 407 (REFUGEE 407) PRINCIPLES OF REFUGEE RESETTLEMENT (3-0-3)(F/S).** Explores the resettlement process in the



United States. Will provide knowledge and skills needed to assist in the resettlement experience for refugees. Examination of personal values and beliefs and their impacts on practice will be integral. May be taken for REFUGEE or SOCWRK credit, but not both. PREREQ: Admission to BSW candidacy or PERM/INST.

**SOCWRK 408 (REFUGEE 408) WORKING WITH REFUGEES ACROSS CULTURES (3-0-3)(F/S).** Provides a framework and skills practice for effective and competent cross-cultural practice with refugees in the human services. May be taken for REFUGEE or SOCWRK credit, but not both. PREREQ: Admission to BSW candidacy or PERM/INST.

**SOCWRK 409 (REFUGEE 409) CASE MANAGEMENT WITH REFUGEES (3-0-3)(F/S).** Case management knowledge and skills as applied in refugee serving agencies such as refugee resettlement, health settings and mental health agencies. May be taken for REFUGEE or SOCWRK credit, but not both. PRE/COREQ: REFUGEE/SOCWRK 407, REFUGEE/SOCWRK 408.

**SOCWRK 410 (REFUGEE 410) INTRODUCTION TO REFUGEE PROGRAM SUPERVISION AND MANAGEMENT (3-0-3)(F/S).** Explores a variety of programs serving refugees including the statutory foundation for programs, financing, grant writing, and budget management. Prepares students with the knowledge and skills required for supervising staff and volunteers. May be taken for REFUGEE or SOCWRK credit, but not both. PRE/COREQ: REFUGEE/SOCWRK 407, REFUGEE/SOCWRK 408.

**SOCWRK 411 (REFUGEE 411) ADVANCED REFUGEE MACRO PRACTICE (3-0-3)(F/S).** Covers the current policy issues related to refugee resettlement; follows any legislation related to refugees that is in process at the federal and state levels; and teaches strategies for effective community change and advocacy. May be taken for REFUGEE or SOCWRK credit, but not both. PRE/COREQ: REFUGEE/SOCWRK 407, REFUGEE/SOCWRK 408.

**SOCWRK 412 (REFUGEE 412) MACRO PRACTICE CAPSTONE CLASS (3-0-3)(F, S).** A service or research project is selected and implemented that will address a need related to refugees. May be taken for REFUGEE or SOCWRK credit, but not both. PRE/COREQ: REFUGEE/SOCWRK 407, REFUGEE/SOCWRK 408, and REFUGEE/SOCWRK 409 or REFUGEE/SOCWRK 410 or REFUGEE/SOCWRK 411.

**SOCWRK 414 CORE CONCEPTS IN TRAUMA INFORMED CHILD WELFARE PRACTICE (3-0-3)(S).** Introduces students to the core concepts (general theory and foundational knowledge), informing evidence-based assessment and treatment for traumatized children and adolescents who are in the child welfare system. Highlights the role of development, culture, and empirical evidence in trauma-specific assessment, referral and treatments, the level of functioning of primary care giving environments and the capacity of the community and child welfare system to facilitate restorative processes. COREQ: SOCWRK 481 or PERM/BSW Program Coordinator.

**SOCWRK 420 HUMAN BEHAVIOR AND THE SOCIAL ENVIRONMENT II (3-0-3)(F/S).** Second in the HBSE sequence, utilizes a variety of theoretical perspectives to examine the impact of social systems and institutions on human behavior. Draws on traditional and alternative/conflict theoretical perspectives and the role of systemic oppression and discrimination to examine how experiences differ across factors such as race/ethnicity, gender, sexual orientation, ability, social and economic status, and religiosity/spirituality. Strategies designed to eliminate oppressive structural barriers and ensure human rights are protected will be examined. PREREQ: SOCWRK 320.

**SOCWRK 422 BEREAVED CHILDREN (3-0-3)(SU).** An intensive service-learning hybrid course. Community, group, and individual activities for the development/implementation of a camp session for grieving children. Students will be required to attend class sessions, camp orientation, committee meetings throughout the summer, and camp session. PREREQ: PERM/INST.

**SOCWRK 425 INTRODUCTION TO CHILD WELFARE (3-0-3)(S).** Examines the child welfare system within the context of its historical

development, current policy and professional competencies required for social work practice. Focus will be on child welfare services, roles of social work professionals, and their work with children, youth and families. COREQ: SOCWRK 481 or PERM/INST.

**SOCWRK 433 AGING: SOCIAL POLICY AND PROGRAMS (3-0-3)(F/S)(Alternate years).** Includes policy issues and services that are or should be available to all aged, and special services that must be available for the frail, impaired, and isolated aged. Available programs are explored, including local organizations and related social services. Emphasis on strengths-based social work practice. COREQ: SOCWRK 480 or SOCWRK 481 or PERM/BSW Program Coordinator.

**SOCWRK 444 GENERALIST SOCIAL WORK PRACTICE II: FAMILIES AND GROUPS (3-0-3)(F).** Social work practice with families and groups from generalist perspective. Focus on engagement, assessment, evidence-based interventions and evaluation. Attention is given to client strengths and provision of services to diverse families and groups. PREREQ: SOCWRK 333.

**SOCWRK 455 GENERALIST SOCIAL WORK PRACTICE III: ORGANIZATIONS AND COMMUNITIES (3-0-3)(S).** From a generalist perspective introduces theories and practice in organizational and community settings. Based on social work values and ethics, learn strategies and skills for assessment and intervention in macro settings. Conceptual models of macro change are examined including social planning, community organizing, social action, and community/organizational development and change. PREREQ: SOCWRK 333.

**SOCWRK 471 FUNDAMENTALS OF HEALTHY AGING (3-0-3)(F).** Overview of gerontology presented by examining major issues related to aging. Content includes theories of aging; the impact of an aging population; and future implications at local, national, and international levels. PREREQ: SOCWRK 480 or PERM/INST.

**SOCWRK 480 SOCIAL WORK FIELD PRACTICUM I (0-16-5)(F).** Opportunity for application of classroom learning to social work practice. Includes competent practice within a generalist framework across micro, mezzo and macro areas of practice informed by knowledge, values, skills and cognitive and affective processes. (Pass/Fail. ) PREREQ: Admission to BSW candidacy, Major GPA: 3.0, Department approval. PRE/COREQ: SOCWRK 498.

**SOCWRK 481 SOCIAL WORK FIELD PRACTICUM II (0-16-5)(S).** Continuation of SOCWRK 480. (Pass/Fail. ) PREREQ: Admission to BSW candidacy, Major GPA: 3.0, Department approval, SOCWRK 480 and SOCWRK 498. COREQ: SOCWRK 499.

**SOCWRK 493 SOCIAL WORK INTERNSHIP (F/S)(F, S, SU).** Provides practical, on-the-job social work experience in a social services agency. Forty-five hours worked equals one credit hour; no retroactive credits earned. Maximum of six internship credits per semester; maximum of twelve internship credits applied to degree. Internships are excluded from fulfilling six credits of upper-division social work electives; they can fulfill general electives only. With approval of internship coordinator.

**SOCWRK 498 SENIOR SEMINAR I (1-0-1)(F)(FF).** Forum to integrate, synthesize, and apply classroom content within the practical world of the field/practice setting. Utilizing a generalist practice perspective, seminar provides a supportive group setting to develop professional identity, self-awareness, self-care, empathy, and critical thinking. Explores the use of values and ethics, examine best practices, consider diverse experiences, as well as process and evaluate personal behaviors within the social work field. First half of a capstone project will be completed. COREQ: SOCWRK 480.

**SOCWRK 499 SENIOR SEMINAR II (1-0-1)(S)(FF).** Continuation of SOCWRK 498. A major capstone project will be completed. COREQ: SOCWRK 481

# Department of Sociology

College of Arts and Sciences

Riverfront Hall, Room 214  
 (208) 426-3406 (phone)  
 (208) 426-2098 (fax)  
 sociology@boisestate.edu (email)

<https://www.boisestate.edu/sociology/> (website)

*Chair and Professor:* Arthur Scarritt. *Professors:* Blain, Husting, Ramirez, Orr, Paterson. *Associate Professor:* Som Castellano. *Lecturers:* Brunette, Mawhirter. *Staff:* Paty Dudziak Kerr.

## Degrees Offered

- Associate of Arts in Social Science
- Bachelor of Arts in Sociology, Social Science, Secondary Education
- Bachelor of Science in Ethnic Studies
- Bachelor of Science in Social Science
- Bachelor of Science in Sociology
- Minor in Ethnic Studies
- Minor in Labor Studies
- Minor in Mexican-American Studies
- Minor in Sociology

## Department Statement

The degree programs administered by the Department of Sociology are central to the State Board of Education's mandate that Boise State University serve as the lead institution in the social sciences. Departmental programs include four baccalaureate degrees, one associate of arts degree, and four minors.

## Degree Requirements

Sociology is devoted to the study of human societies. The goal of the sociology degree program is to train students to engage in social scientific analysis and to think critically about public affairs. Each student is required to complete courses in theory, social research methods, and statistical analysis.

| Sociology Bachelor of Science   |         |
|---|---------|
| Course Number and Title   | Credits |
| University Foundations requirements indicated in bold. See page 48 for details and lists of approved courses. |         |
| <b>UF 100</b> Foundations of Intellectual Life  | 3       |
| <b>UF 200</b> Foundations of Ethics and Diversity   | 3       |
| <b>FW ENGL 101</b> Writing and Rhetoric I   | 3       |
| <b>FW ENGL 102</b> Writing and Rhetoric II  | 3       |
| <b>FC</b> Foundations of Oral Communication   | 3       |
| <b>FM</b> Foundations of Mathematics course   | 3-4     |
| <b>FN</b> Foundations of Natural, Physical, & Applied Sciences course with lab                                | 4       |
| <b>FN</b> Foundations of Natural, Physical, & Applied Sciences course in a second field                       | 3-4     |
| <b>FA</b> Foundations of Arts course  | 3       |
| <b>FH</b> Foundations of Humanities course  | 3-4     |
| <b>FS SOC 101</b> Introduction to Sociology   | 3       |
| <b>FS</b> Foundations of Social Sciences course in a second field   | 3       |
| SOC 301 Sociology Theory I  | 3       |
| SOC 302 Sociology Theory II   | 3       |
| SOC 310 Elementary Social Statistics  | 3       |
| SOC 311 Social Research   | 3       |
| SOC 493 Internship or SOC 496 Independent Study   | 3       |

|  |       |
|--|-------|
| FF SOC 498 Senior Seminar                    | 3     |
| Upper-division sociology electives           | 15    |
| Upper-division electives to total 40 credits | 7     |
| Electives to total 120 credits               | 40-43 |
| Total  | 120   |

Students may also complete an Associate of Arts in Social Science.

| Social Science Associate of Arts  |         |
|---|---------|
| Course Number and Title   | Credits |
| University Foundations requirements indicated in bold. See page 48 for details and lists of approved courses.   |         |
| <b>UF 100</b> Foundations of Intellectual Life  | 3       |
| <b>UF 200</b> Foundations of Ethics and Diversity   | 3       |
| <b>FW ENGL 101</b> Writing and Rhetoric I   | 3       |
| <b>FW ENGL 102</b> Writing and Rhetoric II  | 3       |
| <b>FC</b> Foundations of Oral Communication   | 3       |
| <b>FM</b> Foundations of Mathematics course   | 3-4     |
| <b>FN</b> Foundations of Natural, Physical, & Applied Sciences course with lab  | 4       |
| <b>FN</b> Foundations of Natural, Physical, & Applied Sciences course in a second field   | 3-4     |
| <b>FA</b> Foundations of Arts course  | 3       |
| <b>FH</b> Foundations of Humanities course  | 3-4     |
| <b>FS</b> Foundations of Social Sciences course   | 3       |
| <b>FS</b> Foundations of Social Sciences course in a second field   | 3       |
| Social science lower-division courses selected from the following fields of study: anthropology, communication, criminal justice, economics, history, political science, psychology, social work, sociology<br>(These courses are in addition to those listed under <b>FS</b> courses and should include a third field. ) | 12      |
| Electives to total 64 credits   | 12-15   |
| Total   | 64      |

The social science degree is a cooperative program involving anthropology, communication, criminal justice, economics, gender studies, history, political science, psychology, and sociology. Its purpose is to provide students with the opportunity to pursue an interdisciplinary program of study in social science tailored to their specific academic and/or vocational interests.

| Social Science Bachelor of Science  |         |
|---|---------|
| Course Number and Title   | Credits |
| University Foundations requirements indicated in bold. See page 48 for details and lists of approved courses. |         |
| <b>UF 100</b> Foundations of Intellectual Life  | 3       |
| <b>UF 200</b> Foundations of Ethics and Diversity   | 3       |
| <b>FW ENGL 101</b> Writing and Rhetoric I   | 3       |
| <b>FW ENGL 102</b> Writing and Rhetoric II  | 3       |
| <b>FC</b> Foundations of Oral Communication   | 3       |
| <b>FM</b> Foundations of Mathematics course   | 3-4     |
| <b>FN</b> Foundations of Natural, Physical, & Applied Sciences course with lab                                | 4       |
| <b>FN</b> Foundations of Natural, Physical, & Applied Sciences course in a second field                       | 3-4     |
| <b>FA</b> Foundations of Arts course  | 3       |

|  |            |
|--|------------|
| <b>FH</b> Foundations of Humanities course   | 3-4        |
| <b>FS</b> SOC 101 Introduction to Sociology  | 3          |
| <b>FS</b> Foundations of Social Sciences course in a second field  | 3          |
| SOC 201 Theories of Society  | 3          |
| SOC 493 Internship or<br>SOC 496 Independent Study   | 3          |
| <b>FF</b> SOC 498 Senior Seminar   | 3          |
| Methods course:<br>GENDER 302 Research Methods and Perspectives<br>POLS 398 Advanced Political Science Methods<br>PSYC 321 Research Methods<br>SOC 311 Social Research<br>SOC 412 Qualitative Social Research Methods  | 3          |
| Statistics course:<br>POLS 298 Introduction to Political Inquiry<br>PSYC 295 Statistical Methods<br>SOC 310 Elementary Social Statistics   | 3          |
| Upper-division first social science field*   | 9          |
| Upper-division second social science field*<br>*Select from the following for first and second fields of study: anthropology, communication, criminal justice, economics, environmental studies, gender studies, global studies, history, political science, psychology, sociology and urban studies. Only three (3) credit hours in each field may be workshops, special topics, independent study courses, or internships. | 9          |
| Upper-division electives to total 40 credits   | 10-13      |
| Electives to total 120 credits   | 34-40      |
| <b>Total</b>   | <b>120</b> |

The social science, secondary education emphasis programs are cooperative, multidisciplinary programs involving the Departments of Economics, History, Political Science, and Sociology. Students choosing this emphasis must:

- Complete a minimum of 39 credits in sociology.
- Complete a minimum of 21 credits in one of the departments listed above (other than sociology) to satisfy graduation requirements. See the department listings for each of these departments for additional information.
- Meet the requirements and standards for admission to teacher education, which are described fully under the Department of Curriculum, Instruction, and Foundational Studies or at <https://www.boisestate.edu/education/>. Students are expected to meet all knowledge, skill, and dispositional requirements for continued enrollment in the program.

This program is designed to assist students in developing the knowledge, skills, and dispositions essential for success in teaching sociology in secondary schools. Coursework combines content knowledge, theories of learning and human development, study of curriculum, and methodology. The program is grounded in the conceptual framework of the Professional Educator. Professional educators adjust their teaching approaches and learning environment to the needs and backgrounds of their students. Candidates who complete this program demonstrate evidence of meeting the Idaho Beginning Teachers Standards and are eligible for recommendation for state certification.

| Sociology, Social Science, Secondary Education Bachelor of Arts   |                |
|---|----------------|
| Course Number and Title   | Credits        |
| University Foundations requirements indicated in bold. See page 48 for details and lists of approved courses.   |                |
| <b>UF</b> 100 Foundations of Intellectual Life  | 3              |
| <b>UF</b> 200 Foundations of Ethics and Diversity   | 3              |
| <b>FW</b> ENGL 101 Writing and Rhetoric I   | 3              |
| <b>FW</b> ENGL 102 Writing and Rhetoric II  | 3              |
| <b>FC</b> Foundations of Oral Communication   | 3              |
| <b>FM</b> Foundations of Mathematics course   | 3-4            |
| <b>FN</b> Foundations of Natural, Physical, & Applied Sciences course with lab  | 4              |
| <b>FN</b> Foundations of Natural, Physical, & Applied Sciences course in a second field   | 3-4            |
| <b>FA</b> Foundations of Arts course  | 3              |
| <b>FH</b> Foundations of Humanities course  | 3-4            |
| <b>FS</b> POLS 101 American National Government   | 3              |
| <b>FS</b> Foundations of Social Sciences course in a second field   | 3              |
| EDTECH 202 Teaching and Learning in a Digital Age   | 3              |
| ED-CIFS 201 Education, Schooling, and Society   | 3              |
| ED-CIFS 301* Teaching Experience I  | 2              |
| ED-CIFS 302* Learning and Instruction   | 4              |
| ED-CIFS 401* Professional Year — Teaching Experience II   | 3              |
| ED-CIFS 405* Teaching Secondary Social Studies  | 3              |
| ED-LLC 444* Content Literacy for Secondary Students   | 3              |
| ED-ESP 350* Teaching Students with Exceptional Needs at the Secondary Level   | 3              |
| Teaching Experience III/IV*   | 14             |
| *You must apply for admission to secondary teacher education to enroll in these upper-division education courses. Completion of all requirements for graduation with a secondary education option may require more than 120 credit hours. See Department of Curriculum, Instruction, and Foundational Studies for more information. |                |
| SOC 301 Sociological Theory I   | 3              |
| SOC 302 Sociological Theory II  | 3              |
| SOC 310 Elementary Social Statistics  | 3              |
| SOC 311 Social Research   | 3              |
| <b>FF</b> SOC 498 Senior Seminar  | 3              |
| Upper-division sociology courses  | 15             |
| Upper-division social science field other than sociology  | 21             |
| <b>Total</b>  | <b>126-129</b> |

The Ethnic Studies major is an interdisciplinary program focused on producing professionals capable of identifying sources of intercultural conflict, promoting intercultural conflict resolution, and advocating multicultural access to all facets of U.S. society. Coursework examines current issues, trends, controversies, and practices involving multiculturalism and diversity in the U.S.

| Ethnic Studies<br>Bachelor of Science   |                |
|---|----------------|
| <i>Course Number and Title</i>  | <i>Credits</i> |
| University Foundations requirements indicated in bold. See page 48 for details and lists of approved courses.   |                |
| <b>UF 100</b> Foundations of Intellectual Life  | 3              |
| <b>UF 200</b> Foundations of Ethics and Diversity   | 3              |
| <b>FW ENGL 101</b> Writing and Rhetoric I   | 3              |
| <b>FW ENGL 102</b> Writing and Rhetoric II  | 3              |
| <b>FC</b> Foundations of Oral Communication   | 3              |
| <b>FM</b> Foundations of Mathematics course   | 3-4            |
| <b>FN</b> Foundations of Natural, Physical, & Applied Sciences course with lab  | 4              |
| <b>FN</b> Foundations of Natural, Physical, & Applied Sciences course in a second field   | 3-4            |
| <b>FA</b> Foundations of Arts course  | 3              |
| <b>FH</b> Foundations of Humanities course  | 3-4            |
| <b>FS SOC 230</b> Introduction to Ethnic Studies  | 3              |
| <b>FS</b> Foundations of Social Sciences course in a second field   | 3              |
| SOC 305 Race and Cultural Minorities  | 3              |
| <b>FF SOC 498</b> Senior Seminar  | 3              |
| BASQ-STD/SOC 493 Internship Ethnic Organization/<br>Ethnic Issues Organization  | 3              |
| Methods course:<br>GENDER 302 Research Methods and Perspectives<br>SOC 311 Social Research Methods  | 3              |
| Content Areas (at least one (1) course from each of the three (3) following categories, totaling a minimum of 7 courses):   | 17-25          |
| History<br>ANTH 307 Anthropology of Native North America<br>ANTH 312 Prehistory of North America<br>ANTH 320 Latin American Prehistory<br>ARTHIST 359 Pre-Columbian Art<br>BASQ-STD 377 Early European History: Basque Origins and Traditions<br>BASQ-STD 378 Modern Basque History<br>HIST 262 Witnessing Latin America<br>HIST 341 Native American History<br>HIST 349 History of Multicultural America<br>HIST 363 History of Mexico   |                |
| Literature and Culture<br>BASQ-STD 335 Basque Culture<br>BASQ-STD 353 The Arts in the Basque Country<br>COMM 351 Intercultural Communication<br>ED-LLC 200 Cultural Diversity in the School<br>ED-LLC 305 Spanish for the Bilingual Classroom<br>ENGL 213 African-American Literature<br>ENGL 216 Literature and Global Consciousness<br>ENGL 395 Women Writers<br>GENDER 200 Introduction to Gender Studies<br>GENDER 303 Introduction to Women's Studies<br>GENDER 480 Seminar in Gender Studies<br>SPAN 202 Intermediate Spanish II<br>SPAN 300 Spanish For Bilinguals<br>SPAN 301 Conversational Spanish<br>SPAN 304 Introduction to Hispanic Literature<br>SPAN 377 Latin American Culture and Civilization<br>SPAN 385 Mexican American Culture and Civilization<br>SPAN 403 Survey of Latin American Literature I<br>SPAN 404 Survey of Latin American Literature II<br>SPAN 425 Mexican American Literature<br>SPAN 430 Topics in Latin American Literature<br>SPAN 490 Topics in Hispanic Cinema<br>WORLD 310 Japanese Culture and Society<br>WORLD 320 China Today<br>WORLD 321 Chinese Culture through Film<br>WORLD 360 Topics in Hispanic Literature<br>World Language: two (2) courses in a foreign language sequence |                |

|   |       |
|---|-------|
| Social and Political Issues<br>BASQ-STD 323 Basque Politics<br>BASQ-STD 379 Basque Global Migration<br>BASQ-STD 380 Colloquium in Basque Studies<br>CONFLICT 405 Culture and Conflict<br>ED-LLC 306 Field Experience with Bilingual or English Language Learners<br>GENDER 301/SOC 471 Feminist Theory<br>GENDER 371/SOC 371 The Social Psychology of Gender<br>GENDER 380 Colloquium in Gender Studies<br>POLS 423 Latin American Politics<br>POLS 427 Politics of Africa<br>PSYC 419 Children & Families: Multicultural Perspectives<br>SOC 306 Sociology of African Americans<br>SOC 307 The Asian American Social Experience<br>SOC 332 Introduction to Mexican-American Studies<br>SOC 333 Contemporary Issues of Chicanas/Chicanos<br>SOC 421 Social Inequality<br>SPAN 475 Latin America Today<br>SPAN 476 Human Rights in Latin America |       |
| Upper-division electives to total 40 credits  | 3-25  |
| Electives to total 120 credits  | 28-40 |
| Total   | 120   |

| Sociology Minor                  |                |
|----------------------------------|----------------|
| <i>Course Number and Title</i>   | <i>Credits</i> |
| SOC 101 Intro to Sociology       | 3              |
| SOC 301 Sociological Theory I    | 3              |
| SOC 311 Social Research          | 3              |
| Upper-division Sociology courses | 9              |
| Sociology course                 | 3              |
| Total                            | 21             |

| Ethnic Studies Minor   |                |
|--|----------------|
| <i>Course Number and Title</i>   | <i>Credits</i> |
| HIST 349 History of Multicultural America  | 3              |
| SOC 230 Introduction to Ethnic Studies   | 3              |
| SOC 305 Race and Cultural Minorities   | 3              |
| Ethnic Studies electives chosen from at least two (2) of the three (3) content areas:<br>History<br>ANTH 307, ANTH 312, ANTH 320, ARTHIST 359, BASQ-STD 377, BASQ-STD 378, HIST 262, HIST 341, HIST 349, HIST 363<br>Literature and Culture<br>BASQ-STD 335, BASQ-STD 353, COMM 351, ED-LLC 200, ED-LLC 305, ENGL 213, ENGL 216, ENGL 395, GENDER 200, GENDER 303, GENDER 480, SPAN 202, SPAN 300, SPAN 301, SPAN 304, SPAN 377, SPAN 385, SPAN 403, SPAN 404, SPAN 425, SPAN 430, SPAN 490, WORLD 310, WORLD 320, WORLD 321, WORLD 360, Modern Language: two (2) courses in a foreign language sequence<br>Social and Political Issues<br>BASQ-STD 323, BASQ-STD 379, BASQ-STD 380, ED-LLC 306, GENDER 301/SOC 471, GENDER 371/SOC 371, GENDER 380, POLS 423, SOC 306, SOC 307, SOC 332, SOC 333, SOC 421, SPAN 475, SPAN 476 | 12-14          |
| Total  | 21-23          |

The Labor Studies Minor is an interdisciplinary program that focuses upon work as a practice that shapes and is shaped by other social institutions. Labor is an economic phenomenon, and labor organizations play a role in the political process and in the management of many workplaces. Paid and unpaid labor is a

key feature of family life, and segregated labor markets are central to systems of ethnic and gender inequality. Students should complete the minor as more effective participants in our workplaces and in civic affairs, and will be more appreciative of the centrality of work in our lives, families and relationships.

| Labor Studies Minor  |                |
|--|----------------|
| <i>Course Number and Title</i>   | <i>Credits</i> |
| SOC 101 Introduction to Sociology  | 3              |
| SOC 361 Sociology of Work  | 3              |
| SOC 421 Social Inequality  | 3              |
| Courses chosen from:<br>COMM 361 Organizational Communication<br>COMM 435 Collaboration and Facilitation<br>CONFLICT/COMM/SOC 390 Conflict Management<br>ECON 315/GLOBAL 303 Global Economic Development<br>ECON 325 Heterodox Political Economy<br>ECON 327 Labor Economics<br>GENDER 200 Introduction to Gender Studies<br>GLOBAL 301 History of Globalization<br>HIST 325 History of Socialism<br>HIST 349 History of Multicultural America<br>HIST 387 History of the Police in Europe and America<br>HRM 330 Human Resource Law<br>HRM 340 Employee and Labor Relations<br>MEDIA 201 Introduction to Media<br>NONPROF 340 Volunteer Management and the Nonprofit<br>NONPROF 440 Funding for Nonprofits<br>POLS 401 Political Parties and Interest Groups<br>PR 201 Intro to Public Relations<br>SOC 305 Racial and Cultural Minorities<br>SOC 320 Radical Sociology<br>SOC 380 Political Sociology<br>SOC 403 Social Change<br>SOC 425 Urban Sociology<br>SOC 426 Rural Sociology<br>URBAN 390 Urban Inequality<br>493 Internship | 15             |
| <b>Total</b>   | <b>24</b>      |
| *No more than six elective credits of SOC may be applied toward the minor.   |                |

The Mexican-American studies minor introduces students to the issues and problems facing Mexican-Americans in the United States and Idaho. Students will have the opportunity to explore Mexican-American culture and how America's social institutions and social organizations relate to and react to the Mexican-American population. Special emphasis in the sociology classes is placed on examining the work of practitioners from applied sociology, clergy, legal profession, and social service agencies to ameliorate the problems facing Mexican-Americans.

| Mexican-American Studies Minor                     |                |
|--|----------------|
| <i>Course Number and Title</i>                     | <i>Credits</i> |
| HIST 363 History of Mexico                         | 3              |
| SOC 230 Introduction to Ethnic Studies             | 3              |
| SOC 332 Introduction to Mexican-American Studies   | 3              |
| SOC 333 Contemporary Issues of Chicanas/Chicanos   | 3              |
| SOC 493 Internship (emphasis on Latino placements) | 3              |

|   |              |
|---|--------------|
| Courses chosen from:<br>ARTHIST 359 Pre-Columbian Art<br>ED-LLC 305 Spanish for the Bilingual Classroom<br>ED-LLC 306 Field Experience with Bilingual or English Language Learners<br>HIST 262 Witnessing Latin America<br>POLS 423 Latin American Politics<br>SPAN 202 Intermediate Spanish II<br>SPAN 300 Spanish For Bilinguals<br>SPAN 301 Conversational Spanish<br>SPAN 304 Introduction to Hispanic Literature<br>SPAN 377 Latin American Culture and Civilization<br>SPAN 385 Mexican American Culture and Civilization<br>SPAN 403 Survey of Latin American Literature I<br>SPAN 404 Survey of Latin American Literature II<br>SPAN 425 Mexican American Literature<br>SPAN 430 Topics in Latin American Literature<br>SPAN 490 Topics in Hispanic Cinema<br>WORLD 360 Topics in Hispanic Literature | 7-11         |
| <b>Total</b>  | <b>22-26</b> |

| Sociology Teaching Endorsement  |                |
|---|----------------|
| <i>Course Number and Title</i>  | <i>Credits</i> |
| SOC 101 Introduction to Sociology   | 3              |
| SOC 301 Sociological Theory I   | 3              |
| SOC 302 Sociological Theory II  | 3              |
| SOC 311 Social Research   | 3              |
| Upper-division sociology courses  | 9              |
| <b>Total</b>  | <b>21</b>      |
| See Department of Curriculum, Instruction, and Foundational Studies for more information. |                |

## Course Offerings

### SOC—Sociology

#### Lower Division

**SOC 101 INTRODUCTION TO SOCIOLOGY (3-0-3)(F, S, SU)(FS).** An introduction to groups, organizations, and societies, and their impact on human behavior. Emphasis is on sociological perspectives, concepts, methods, and applications in areas such as organization, socialization, inequality, institutions, intergroup relations, change, etc.

**SOC 102 SOCIAL PROBLEMS (3-0-3)(F, S, SU)(FS).** A study of problems that arise due to breakdown of norms and value consensus in society, the causes and solutions to these problems. The student is challenged to continually reexamine his/her own values in reference to the problems under consideration.

**SOC 122 SOCIOLOGICAL COMMUNICATION (3-0-3)(F, S, SU)(FC).** Examines the meanings, methods and impact of oral communication that are constructed and negotiated in social structures and social hierarchies. Students gain skills in oral communication, presentations, and discourse analysis.

**SOC 201 THEORIES OF SOCIETY (3-0-3)(F).** Introduction to the major analytical and interpretive theories of society, history, and human behavior, with an emphasis on the common theoretical concerns of the specific disciplines within the social sciences. PREREQ: ENGL 102, SOC 101.

**SOC 230 INTRODUCTION TO ETHNIC STUDIES (3-0-3)(F, S)(FS).** This course views majority and minority relations and confronts, challenges, and motivates students to know themselves better and understand some societal problems: for example, racism, prejudice, etc. The course deals with the degree to which ethnic relations involve questions of economic and political power and the distribution of the power. It looks at American society's institutional role in maintaining and perpetuating systematic inequality.

**SOC 290 SOCIAL CONFLICT AND PEACEMAKING (3-0-3)(F, S).** An introductory survey course covering broadly the kinds of conflict that occur between persons, groups, organizations, and societies, with attention to why

## SOCIOLOGY

these conflicts arise, and a range of peaceful solutions to conflicts using nonviolent, nonadversarial methods. The course ranges from inner personal conflict to the international nuclear arms race.

### Upper Division

**SOC 301 SOCIOLOGICAL THEORY I (3-0-3)(F, S).** Examination of the development of sociological theory from its philosophical precursors through the first decades of the twentieth century. PREREQ: ENGL 102, SOC 101, and upper-division standing.

**SOC 302 SOCIOLOGICAL THEORY II (3-0-3)(S).** Examination of the development of sociological theory in the twentieth century and of the state of sociological theory today. PREREQ: SOC 301.

**SOC 305 RACIAL AND CULTURAL MINORITIES (3-0-3)(S).** Comparative study of inter-ethnic relations. Problems and possibilities of genocide, oppression, integration, pluralism and equality. PREREQ: ENGL 102, SOC 230 and upper-division standing.

**SOC 306 SOCIOLOGY OF AFRICAN AMERICANS (3-0-3)(F/S).** Examination of the African American presence and experience in the contemporary United States will emphasize political, socio-economic, and cultural issues. Sociological and other perspectives will be introduced which offer promise in reconciling problems that separate peoples. PREREQ: SOC 101 or SOC 230 and upper-division standing.

**SOC 307 THE ASIAN AMERICAN SOCIAL EXPERIENCE (3-0-3)(F/S).** Examination of the Asian presence and experience in the United States emphasizing current social, economic, political, and cultural issues. PREREQ: SOC 101 or SOC 230 and upper-division standing.

**SOC 310 ELEMENTARY SOCIAL STATISTICS (3-0-3)(F, S).** The application of measurements to social research data. Basic statistical measures, and techniques for their application, meaning, and use in research. Recommended for majors to be taken in the junior year and followed by SOC 311. PREREQ: SOC 101, high school algebra, and upper-division status.

**SOC 311 SOCIAL RESEARCH (3-0-3)(F, S).** Introduction to the design of sociological research and the systematic analysis of social data. PREREQ: ENGL 102, SOC 310 or POLS 298 or PSYC 295, and upper-division standing.

**SOC 312 POPULATION DEMOGRAPHY (3-0-3)(F/S)(Alternate years).** Techniques and methods for analyzing population growth, trends, and movement as reflected in actuarial data, birth-death rate; mobility, fertility and fecundity as these affect the societal patterns, especially planning for human service programs. PREREQ: SOC 101 and upper-division standing.

**SOC 320 RADICAL SOCIOLOGY (3-0-3)(F/S).** Analysis of contemporary radical power theory and its application in the study of modern socioeconomic problems. This course will examine issues of social importance from the perspective of conflict theory, neo-Marxian and Elitist theory. PREREQ: SOC 101 and upper-division standing.

**SOC 322 (ANTH 322)(PSYC 322)(DATA-LA 322) PRINCIPLES OF DATA SCIENCE (3-0-3)(F).** An introduction to the core concepts of data science including: predictive modeling using machine learning and data mining; data gathering, extraction and cleaning; and exploratory data analysis. Emphasizes practical skills for liberal arts students to examine questions of human behavior using large and complex data sets. May be taken for credit in ANTH, DATA-LA, PSYC, or SOC but not for more than one discipline. PREREQ: Upper-division standing, CS 133, and a statistics course.

**SOC 330 SOCIOLOGY OF VIOLENCE (3-0-3)(F/S).** The incidence of deliberate injury of one human by another is analyzed in terms of social and cultural patterns that act to produce, alter, or discourage acts of violence. The various forms violence may take are examined from a sociological perspective. PREREQ: SOC 101 and upper-division status.

**SOC 331 DEVIANT BEHAVIOR (3-0-3)(F/S).** Analysis of behaviors which violate the norms of society, and the causes of and solutions for these forms of behavior. The challenge for students is to decide where the problem lies with those labeled deviant or with those doing the labeling. PREREQ: SOC 101 and upper-division standing.

**SOC 332 INTRODUCTION TO MEXICAN-AMERICAN STUDIES (3-0-3)(F).** Social, historical, and political experiences of Mexican-Americans. Attention is given to history, culture, identity, and contemporary issues of Mexican-Americans. PREREQ: SOC 230 and upper-division standing.

**SOC 333 CONTEMPORARY ISSUES OF CHICANAS/CHICANOS (3-0-3)(S).** Comparative analysis of contemporary socioeconomic and political issues confronting Mexican Americans in U.S. society. Topics include study of community, gender, labor, immigration, heterogeneous identity, environmental justice, and social change. Special attention given to comparing the Mexican American experience with other racial-ethnic groups. Institutional and social responses to contemporary issues will also be examined. SOC 332 strongly encouraged. PREREQ: SOC 230 and upper-division standing.

**SOC 340 SOCIOLOGY OF THE FAMILY (3-0-3)(F/S).** An analysis of courtship, marriage, kinship, and family patterns in the United States and selected societies. Theories and facts about the relationships of these patterns to the larger society. PREREQ: SOC 101 and upper-division standing.

**SOC 345 SOCIOLOGY OF SEX AND SEXUALITY (3-0-3)(F/S).** Examines the social construction of sexuality, sexual identities, and the influence of society on sexual behaviors. Particular attention is given to the emergence of sexual norms, sexual orientation, and the commodification of sex. PREREQ: SOC 101 or GENDER 200, and upper-division standing, or PERM/INST.

**SOC 361 SOCIOLOGY OF WORK (3-0-3)(F/S).** The social organization of work is examined in historical and contemporary perspectives. PREREQ: SOC 101 and upper-division standing.

**SOC 362 (CJ 362) CORRECTIONAL THEORY AND PRACTICE (3-0-3)(F/S).** The historical development, processes, and methods of operating the adult correctional system. Detailed study of the philosophy and development of treatment strategies in local, state, and federal correctional institutions. May be taken for CJ or SOC credit, but not both. PREREQ: CJ 204 and upper-division standing.

**SOC 371 (GENDER 371) THE SOCIAL PSYCHOLOGY OF GENDER (3-0-3)(F/S)(Alternate years).** Multinational social psychological research and theories are used to explore the processes by which societies apply gender definitions, social change, institutional policies, and relationships between women and men. May be taken for GENDER or SOC credit, but not for both. PREREQ: PSYC 101 or SOC 101, and upper-division standing.

**SOC 380 POLITICAL SOCIOLOGY (3-0-3)(F/S).** An examination of the state, the polity and power as social phenomena, and their relationships to other social institutions, including structures of social and economic inequality. PREREQ: SOC 101 or POLS 101, and upper-division standing.

**SOC 390 (COMM 390)(CONFLICT 390) CONFLICT MANAGEMENT (3-0-3)(F, S, SU).** Examination of the causes of conflict, conflict management theory, and conflict management techniques applied in interpersonal, intergroup, organizational, and community settings. Discussion and skill development through experiential learning will focus on such conflict management techniques as interpersonal management, mediation, arbitration, negotiation, and reconciliation. May be taken for credit in COMM, CONFLICT, or SOC but not from more than one department. PREREQ: Upper-division standing.

**SOC 395 THE SOCIOLOGY OF PEACE AND WAR (3-0-3)(F/S).** This course will focus on resolving violent conflicts between nations. It will survey the interpretations of sociologists and others in two basic areas: 1) the relationship between the enabling institutions of war and the nature and evolution of modern societies, and 2) emergent proscriptions, strategies, and social movements which invoke actions, attitudes, and ways of life directed toward creating a more peaceful future. PREREQ: SOC 101 or GLOBAL 101, and upper-division standing.

**SOC 401 SOCIOLOGY OF EDUCATION (3-0-3)(F/S).** A sociological analysis of the American school system, its problems, and the social forces that shape the schools in contemporary society. PREREQ: SOC 101 and upper-division standing, or PERM/INST.

**SOC 403 SOCIAL CHANGE (3-0-3)(F/S).** Social factors which generate innovation, influence its acceptance or rejection, and determine its effects on society. Planning, collective behavior, diffusion, conflict, and other efforts to create change. PREREQ: SOC 101 and upper-division standing.

**SOC 407 SOCIOLOGY OF RELIGION (3-0-3)(F/S).** Social science perspectives on religion. Religion viewed as human activity influencing and being influenced by social organization and social conditions. PREREQ: SOC 101 or GLOBAL 101, and upper-division standing.

**SOC 410 ADVANCED SOCIAL STATISTICS (3-0-3)(F/S).** The methods of nonparametric statistics in the analysis of sociological data are examined in-depth with application to research. PREREQ: SOC 101 and SOC 310 or equivalents as determined by consultation with department chair.

**SOC 412 QUALITATIVE SOCIAL RESEARCH METHODS (3-0-3)(F/S).**

An intensive course in interpretive social science, covering the practice of fieldwork ethnography, the use of computers in qualitative research, techniques of qualitative data analysis, and the writing of qualitative research reports. PREREQ: SOC 101 or GLOBAL 101, and upper-division standing.

**SOC 415 JUVENILE DELINQUENCY (3-0-3)(F/S).** Social causes of juvenile delinquency. Solutions that are discussed arise from theories which suggest changing society more than the individual delinquent. Positive and negative activities of the juvenile justice system are also reviewed. PREREQ: SOC 101 and upper-division standing.

**SOC 417 CRIMINOLOGY (3-0-3)(F/S).** An examination of the social and intellectual heritage of criminological theory. The student is challenged to understand crime as a sociological problem which is “explained” by theories that can be tested scientifically and evaluated critically. PREREQ: SOC 101 and upper-division standing.

**SOC 420 (ANTH 420)(PSYC 420)(DATA-LA 420) SOCIAL NETWORK ANALYSIS (3-0-3)(F, S, SU).** Introduces and applies concepts and empirical methods of network analysis in a field-based project. Social networks influence learning, economic behavior, and adoption of new products and organizational innovations. May be taken for credit in ANTH, DATA-LA, PSYC, or SOC but not for more than one discipline. PREREQ: Upper-division standing and a statistics course.

**SOC 421 SOCIAL INEQUALITY (3-0-3)(F/S).** How inequalities of wealth, income, and prestige occur. How such inequalities affect behavior, personal philosophy, and life chances. Arguments for and against more equality will be examined in relation to issues such as: constraint and mobility; education and opportunity; consumerism and poverty; public policy and the politics of wealth and welfare. PREREQ: SOC 101 or GLOBAL 101, and upper-division standing.

**SOC 425 URBAN SOCIOLOGY (3-0-3)(F/S).** Examination of urban processes with a comparative examination of metropolitan and other urban communities. Emphasis is on urbanization and the institutions and policies shaping metropolitan life. PREREQ: SOC 101 and upper-division standing.

**SOC 426 RURAL SOCIOLOGY (3-0-3)(F/S).** Through application of sociological concepts, methods and theories, students are offered an opportunity to explore current issues and social problems experienced by rural populations, including demographic, economic and sociocultural changes. Special attention paid to the rural west and Idaho. PREREQ: SOC 101 and upper-division standing.

**SOC 431 (PSYC 431) SOCIAL PSYCHOLOGY (3-0-3)(F/S).** The primary focus is the individual; the unit of analysis, the interpersonal behavior event. A study of individual motives, emotions, attitudes, and cognition with reference to interactions with other human beings. May be taken for PSYC or SOC credit, but not both. SOC 101 and a course in statistics or research design are strongly recommended. PREREQ: PSYC 101 or SOC 101, and upper-division standing.

**SOC 435 DRUGS IN SOCIETAL CONTEXT (3-0-3)(F/S)(Alternate years).** This class applies the sociological perspective on social problems to drug use. It examines how different social groups use drugs, attempt to control and prohibit the use of drugs, and the societal effects of using and controlling the use of drugs. PREREQ: SOC 101 and upper-division standing.

**SOC 440 ENVIRONMENTAL SOCIOLOGY (3-0-3)(F/S).** Sociological approach to the study of environmentalism, social implications of environmental policy, environmental conflicts, and the distributive justice nature of environmental issues. PREREQ: SOC 101 or ENVSTD 121, and upper-division standing.

**SOC 445 FOOD AND SOCIETY (3-0-3)(F/S).** Examines the social forces that shape the way we grow, distribute and consume food. The dramatic growth of industrialized and globalized farming, the social and environmental consequences of these practices, and alternative forms of food production and consumption are highlighted. PREREQ: SOC 101 or ENVSTD 121, and upper-division standing, or PERM/INST.

**SOC 471 (GENDER 301) FEMINIST THEORY (3-0-3)(F/S).** Students encounter new perspectives by examining major theories directly useful to scholars in search of understanding and explaining gender relations. May be taken for GENDER or SOC credit, but not for both. PREREQ: GENDER 200 and upper-division standing, or PERM/INST.

**SOC 472 SOCIOLOGY OF AGING (3-0-3)(F/S).** The study of aging and age cohorts as they relate to and interact with social structures and processes with an emphasis on the later stages of aging. Topics include ageism within social institutions, the effects of age cohorts on work, education and medicine, and the boomer age cohort. PREREQ: SOC 101 and upper-division standing.

**SOC 475 SCIENCE, TECHNOLOGY AND SOCIETY (3-0-3)(F/S).**

Examines science and technology as social phenomena. Focus on the social conditions that affect the development of science, research and innovation, and ways science and technology change society. Issues addressed include science as a social practice and institution, the social ramifications of technologies such as artificial intelligence, bioengineering and robotics, and the relationships between science and inequalities of gender, race and class. PREREQ: SOC 101 or PERM/INST.

**SOC 481 SOCIOLOGY OF GENDER AND AGING (3-0-3)(F/S).** A sociological examination of the myths and stereotypes that impact men and women as they age. The course will explore research efforts focused on aging in a gendered society and examine the myths and stereotypes; seek to discover the source of cultural beliefs, social structures of gendered identities, and how gender stratification creates disadvantage for older men and women. PREREQ: SOC 101 and upper-division standing.

**SOC 485 (ANTH 485)(PSYC 485)(DATA-LA 485) STATISTICAL MODELING IN R (3-0-3)(S).** Focuses on statistical methods for practical data analysis, including parametric and non-parametric analyses, ANOVA, multiple and logistic regression, generalized linear models, and dimension reduction methods using R to examine and understand human behavior. Students will conduct a research project designed in partnership with a professional stakeholder that delivers actionable outcomes. May be taken for credit in ANTH, DATA-LA, PSYC, or SOC but not for more than one discipline. PREREQ: ITM 330 and ITM 340; or DATA-LA 322.

**SOC 487 (POLS 413) ORGANIZATIONAL THEORY AND BUREAUCRATIC STRUCTURE (3-0-3)(F/S).** Sociopolitical analysis of theories and concepts of complex social organizations, their application to public administration, and the inter-relationship between political science and sociological organizational theory. May be taken for SOC or POLS credit, but not for both. PREREQ: senior standing, PERM/INST.

**SOC 493 INTERNSHIP (V-V-V)(F, S, SU).** Upper-division students may select an internship program in consultation with department faculty and internship coordinator. The intent of the internship is to provide an experiential learning experience for students in a variety of settings in the community or on campus. PREREQ: upper-division standing and a cumulative GPA of 2.5 or better.

**SOC 498 SENIOR SEMINAR (3-0-3)(F, S)(FF).** The capstone course, providing intensive study of selected problems in the social sciences. PREREQ: GENDER 302, POLS 398, PSYC 321, SOC 311 or SOC 412, and senior standing in the Sociology, Social Science or Ethnic Studies majors.

## STEM Education

College of Arts and Sciences | College of Education |  
College of Engineering

Education Building, Fourth Floor  
(208) 426-2824 (phone)  
idoteach@boisestate.edu (email)  
<https://www.boisestate.edu/idoteach/> (website)

*Co-directors:* Michele Carney, Joe Champion.

### Program Statement

Undergraduate students seeking a secondary certification in the STEM fields (Science, Technology, Engineering, and/or Mathematics) must complete the STEM Secondary Education Emphasis Bachelor of Science degree in a department that offers content in the subject area of their choice. Below are the departments that offer STEM Secondary Education Emphases that lead to IDoTeach STEM Teaching Certification:

- Biological Sciences
- Chemistry and Biochemistry
- Civil Engineering
- Computer Science
- Electrical Engineering
- Geosciences
- Materials Science and Engineering
- Mathematics
- Mechanical Engineering
- Physics

### Admission Requirements

#### Initial Application

Students must be admitted to the IDoTeach program before enrolling in STEM-ED 310. The requirements for the initial application include:

- A completed application package submitted online (Follow the directions at the program website).
- A transcript indicating the completion of
  - at least 6 credits of required STEM coursework (courses required by degree plan with one of the following prefixes: BIOL, CE, CHEM, CS, ECE, ENGR, GEOG, GEOS, MATH, ME, MSE, PHYS.)
  - STEM-ED 101, STEM-ED 102, and STEM-ED 210 with B- or higher.
- Current and passing fingerprint/background check.
- A minimum degree-box grade-point average of 3.0.

Candidates who meet the minimum requirements based on the application package will be invited for an interview with faculty from their STEM discipline and the IDoTeach program. The interview must be successfully completed to be admitted into the IDoTeach program.

#### Professional Year Application

Students must be admitted to the Professional Year before enrolling in STEM-ED 410. The requirements for the professional year application include:

- Current and passing fingerprint/background check.
- A minimum degree-box grade-point average of 3.0.
- Successful completion of the Praxis II exam for each area of endorsement.

#### Initial and Professional Year Application Deadlines

- First Friday in February for fall semester admission
- Third Friday in September for spring semester admission

#### Secondary Education Certification Requirements

Submitted upon completion of program. Students from Boise State University are recommended to the State Department of Education for an Idaho Teaching Credential after meeting the following requirements:

- Completed application for Idaho Teaching Credential (available in the Education Building, room 722).
- Official transcripts from ALL colleges and/or universities attended.
- Completed Institutional Recommendation from Office of Teacher Education.
- Official Praxis II assessment score sheet. Information regarding the certification process will be given at the Pre-Employment Seminar during the final semester of the professional year.

#### Middle Level (5-9) Science Teaching Endorsement

| Course Number and Title  | Credits   |
|--|-----------|
| BIOL 100 Concepts of Biology or<br>BIOL 191 Biology I: Intro to Cell and Molecular Biology       | 4         |
| CHEM 101, 101L Introduction to Chemistry & Lab or<br>CHEM 111, 111L General Chemistry I with Lab | 4         |
| GEOS 104 Geoscience and Society  | 4         |
| PHYS 101 Introduction to Physics or<br>PHYS 111 General Physics I                                | 4         |
| STEM-ED 310* Classroom Interactions  | 3         |
| STEM-ED 430* Life, Earth, & Physical Science for Teachers  | 4         |
| STEM-ED 498* Seminar in STEM Research  | 1         |
| <b>Total</b>   | <b>24</b> |
| Students not admitted to the IDoTeach program will need to receive instructor permission.        |           |

#### Natural Science Teaching Endorsement

| Course Number and Title   | Credits   |
|---|-----------|
| BIOL 191 Biology I: Intro to Cell and Molecular Biology   | 4         |
| BIOL 192 Biology II: Introduction to the Diversity of Life or<br>STEM-ED 430* Life, Earth, & Physical Science for Teachers  | 4         |
| CHEM 111, 111L General Chemistry I with Lab   | 4         |
| CHEM 112, 112L General Chemistry II with Lab or<br>STEM-ED 430* Life, Earth, & Physical Science for Teachers  | 4         |
| GEOG 101 Physical Geology or<br>GEOS 101 Global Environmental Science or<br>GEOS 104 Geoscience and Society   | 4         |
| GEOS 200 Evolution of Western North America or<br>STEM-ED 430* Life, Earth, & Physical Science for Teachers   | 4         |
| PHYS 111-General Physics or<br>PHYS 211, 211L Physics I with Calculus & Lab   | 4         |
| PHYS 112 General Physics or<br>PHYS 212, 212L Physics II with Calculus & Lab or<br>STEM-ED 430* Life, Earth, & Physical Science for Teachers  | 4         |
| <b>Total</b>  | <b>32</b> |
| *May only be applied toward one of the endorsement requirements.<br>Students pursuing this teaching endorsement are required to hold a major certification endorsement in: Biology, Chemistry, Earth Science Education or Physics. See STEM Education for more information. |           |

### Course Offerings

#### STEM-ED—STEM Education

##### Lower Division

#### STEM-ED 101 STEP 1: INQUIRY APPROACHES TO TEACHING

(1-0-1)(E, S, SU). Theory and practice necessary to design and deliver inquiry-based math and science instruction. Explore and practice the guided inquiry process, modify lesson plans and implement them in a school setting. Requires background check and fieldwork.

**STEM-ED 102 STEP 2: INQUIRY-BASED LESSON DESIGN (1-0-1)(E, S, SU).** Continuation of STEM-ED 101. Develop skills in designing, teaching, analyzing, and assessing STEM lessons. Create inquiry-based lesson plans and



implement them in a school setting. Requires a background check and fieldwork. PREREQ: STEM-ED 101.

**STEM-ED 210 KNOWING AND LEARNING IN SCIENCE AND MATHEMATICS (3-0-3)(F, S, SU)(FS).** Introduction to theories of cognition and learning and the research which supports best teaching practices. Topics include learning progressions, memory, individual development, motivation and intelligence. Students will design and teach lessons that apply learning theory. Emphasis on learning in the STEM disciplines.

**STEM-ED 220 (PHIL 220) PHILOSOPHICAL PERSPECTIVES ON SCIENCE AND MATHEMATICS (2-3-3)(F, S)(FH).** Introduction to the historical, social, and philosophical implications of math and science. Laboratory focuses on replication of significant discoveries. May be taken for either PHIL or STEM-ED credit, but not both.

#### Upper Division

**STEM-ED 310 CLASSROOM INTERACTIONS (3-0-3)(F, S).** Apply learning theories in secondary settings (grades 6-12). Develop, enact and evaluate activities and strategies for teaching STEM in ways that make learning accessible to all students. Requires current background check and fieldwork. PREREQ: PERM/INST, admission to the IDoTeach Program, STEM-ED 102, STEM-ED 210.

**STEM-ED 350 RESEARCH METHODS (1-6-3)(S).** Engagement in laboratory-based methods used by scientists and engineers with implications for science and engineering education. Design and implementation of laboratory investigations. Written and oral reports of results. PREREQ: PERM/INST.

**STEM-ED 370 LEARNING ASSISTANT SEMINAR (1-0-1)(F, S, SU).** Preparation and development of capacity to act as a peer tutor in STEM education. For students involved in the Learning Assistant peer tutoring program. May be repeated for credit. (Pass/Fail).

**STEM-ED 410 STEM TEACHING METHODS (3-0-3)(F, S).** Methods used to plan, enact, assess, and reflect upon sequences of lessons for teaching and learning in inclusive secondary STEM classrooms. Requires current background check and fieldwork. PREREQ: PERM/INST, admission to the professional year, STEM-ED 310.

**STEM-ED 430 LIFE, EARTH, AND PHYSICAL SCIENCE FOR TEACHERS (3-2-4)(F/S).** Explores in-depth science content in the disciplinary areas of biology, earth science, physics, and chemistry as described in current national and state standards. Emphasis will be placed on middle level science content and engagement with student reasoning and science and engineering practices. PREREQ: PERM/INST.

**STEM-ED 480 APPRENTICE TEACHING (6-12 credits)(F, S).** Teaching in a secondary STEM classroom under the mentorship of an experienced in-service teacher in the field. Requires background check and fieldwork. PREREQ: PERM/INST, STEM-ED 410.

**STEM-ED 498 SEMINAR IN STEM RESEARCH (1-0-1)(F/S).** Seminars by STEM educators and researchers on a wide range of subjects, including pedagogy and content. Format may include student presentation and discussion. Students will attend seminars, write summaries, and search for relevant literature. May be repeated for credit. (Pass/Fail.) PREREQ: PERM/INST.

## Sustainability Minor

*College of Business and Economics*

Department of Economics  
Micron Business and Economics Building, Room 3246  
(208) 426-3351 (phone)  
cloucks@boisestate.edu (email)

*Coordinator:* Christine Loucks

### Program Offered

- Minor in Sustainability

### Program Statement

The Sustainability Minor is a 22-23 credit interdisciplinary minor. The curricular focus of the Sustainability Minor is based on the premise that the most pressing societal sustainability challenges of the next century will require an integrated understanding of the social, environmental, and economic implications of the decisions that individual agents make.

The Sustainability Minor has been designed to prepare students to better understand how individuals, businesses, and organizations allocate resources, design policies, build processes, products and services, with the ultimate goal of moving toward and achieving sustainability. The long-term goal of the Sustainability Minor is to provide students with the tools that they need to positively transform the organizations and communities with whom they interact, in ways that seek to balance social, environmental, and economic needs and impacts. The minor consists of a focused core curriculum (10 credits); three sustainability-focused electives (9-10 credits) drawn from natural systems, economic and business sustainability, and societal sustainability areas; and a three-credit integrative sustainability culminating activity course, drawn from a broad list of disciplines.

| Sustainability Minor   |         |
|--|---------|
| Course Number and Title  | Credits |
| ECON 202 Principles of Microeconomics  | 3       |
| ENVSTD 121 Introduction to Environmental Studies   | 3       |
| GEOS 101 Global Environmental Science  | 4       |
| Natural systems sustainability elective<br>BIOL 304 Biology III: Foundations of Ecology & Evolution<br>CE 320 Principles of Environmental Engineering<br>GEOG 321 Sustainability in the Anthropocene<br>GEOS 305 Global Climate Change<br>HES 220 Systems Thinking and Sustainability  | 2-4     |
| Economic and business sustainability elective:<br>ECON 315 Global Economic Development<br>ECON 333 Natural Resource Economics<br>ECON 432 Urban Economics<br>ECON 474 Sustainability and Economic Policy<br>BUS 441 Business in Society: Ethics, Responsibility and Sustainability   | 3       |
| Societal sustainability elective:<br>ANTH 314 Environmental Anthropology<br>EOHS 334 Environmental Health Management<br>GLOBAL 304 Sustainable Futures<br>HIST 376 Global Environmental History<br>PHIL 327 Environmental Ethics<br>POLS 409 Environmental Politics<br>SOC 440 Environmental Sociology<br>URBAN 350 Greening the City<br>URBAN 410 Sustainable Cities  | 3       |
| Integrative sustainability course: *<br>ANTH 314 Environmental Anthropology<br>ECON 474 Sustainability and Economic Policy<br>ENVSTD 300 Environmental Management and Analysis<br>GEOG 321 Sustainability in the Anthropocene<br>GLOBAL 304 Sustainable Futures<br>HES 400 Foundations in Human-Environment Systems Science<br>*The integrative sustainability course can be used to fulfill a Natural systems, Economic, or Societal sustainability elective requirement or this requirement, but not both. | 3       |
| Total  | 21-23   |

## Department of Theatre, Film, and Creative Writing

College of Arts and Sciences | School of the Arts

Morrison Center, Room C-100

(208) 426-3957 (phone)

<https://www.boisestate.edu/tfcw/> (website)

*Chair and Professor:* Richard Klautsch. *Professors:* Atlakson, Baltzell, Corless-Smith, Durham, Hansen, Reinhart, Wieland. *Associate Professors:* Cannon, Davis, Pufall, Udall, Wood. *Assistant Professor:* Ruskovich. *Lecturers:* Gutting, McPhee, Price, Webster.

### Degrees Offered

- Bachelor of Arts in Creative Writing
- Bachelor of Fine Arts in Creative Writing
- Bachelor of Arts in Film and Television Arts
- Bachelor of Fine Arts in Film and Television Arts
- Bachelor of Fine Arts in Narrative Arts
- Bachelor of Arts in Theatre Arts
- Bachelor of Arts in Theatre Arts, Secondary Education
- Minor in Creative Writing
- Minor in Dance
- Minor in Film and Television Arts
- Minor in Theatre Arts
- Certificate in Narrative Arts

### Department Statement

The Department of Theatre, Film, and Creative Writing serves the university and the College of Arts and Sciences as a partnership of programs focusing on the learning, practice, and interaction of the dramatic, cinematic, and literary arts. Located within the School of Arts, the department fosters the rigorous intellectual investigation of form, practice, and theory, and an active arts community through undergraduate research, professional training, experiential learning, and interdisciplinary collaboration between each of its three programs.

The Theatre program provides theoretical and practical courses in a variety of areas, all within a liberal arts-based environment. The program also produces plays and dance concerts each year that train our majors in every aspect of production. These performances challenge and educate our students throughout the university and provide cultural enrichment to the community at large. The program strives to prepare graduates to work in the entertainment industry, to study theatre or dance at the graduate level, or to achieve certification to teach drama.

The Film and Television Arts program provides theoretical and practical courses in a variety of cinematic production areas, either through a liberal-arts based degree or a professionally-oriented degree. The program emphasizes experiential learning through projects such as the Narrative Television Initiative, in which majors participate in every aspect of the creation of a sequential television series, from writing the pilot to entering the finished series in national television festivals.

The Creative Writing program offers a variety of degree paths for those students seeking to pursue the study of creative writing. Each degree offers a strong foundation in traditional and contemporary letters, creative writing in the classroom, and various approaches to career goals. The degrees are designed for students seeking to prepare for careers requiring strong writing backgrounds; students seeking to develop professional portfolios in one of the specialized areas of creative non-fiction, fiction, or poetry; or students pursuing narrative writing careers with additional opportunities in writing for theatre, film, and television. The program provides a foundation in traditional and contemporary literature, creative writing classes, and opportunities to study professional editing and

publishing. The Creative Writing program houses the nationally renowned *Idaho Review* and the *Free Poetry* chapbook series.

**Degree Requirements**

| Creative Writing Bachelor of Arts   |         |
|---|---------|
| Course Number and Title   | Credits |
| University Foundations requirements indicated in bold. See page 48 for details and lists of approved courses.   |         |
| <b>UF 100</b> Foundations of Intellectual Life  | 3       |
| <b>UF 200</b> Foundations of Ethics and Diversity   | 3       |
| <b>FW ENGL 101</b> Writing and Rhetoric I   | 3       |
| <b>FW ENGL 102</b> Writing and Rhetoric II  | 3       |
| <b>FC</b> Foundations of Oral Communication   | 3       |
| <b>FM</b> Foundations of Mathematics course   | 3-4     |
| <b>FN</b> Foundations of Natural, Physical, & Applied Sciences course with lab  | 4       |
| <b>FN</b> Foundations of Natural, Physical, & Applied Sciences course in a second field   | 3-4     |
| <b>FA</b> Foundations of Arts course  | 3       |
| <b>FH</b> Foundations of Humanities course  | 3-4     |
| <b>FS</b> Foundations of Social Sciences course   | 3       |
| <b>FS</b> Foundations of Social Sciences course in a second field   | 3       |
| CW 201 Writing Creative Nonfiction  | 3       |
| CW 202 Writing Poetry   | 3       |
| CW 203 Writing Fiction  | 3       |
| CW 222 The Writing Life   | 3       |
| CW 301 Intermediate Creative Nonfiction Writing or<br>CW 302 Intermediate Poetry Writing or<br>CW 303 Intermediate Fiction Writing  | 3       |
| CW 332 Form and Theory of Creative Writing  | 3       |
| CW 401 Advanced Creative Nonfiction Writing or<br>CW 402 Advanced Poetry Writing or<br>CW 403 Advanced Fiction Writing  | 3       |
| Creative Writing electives chosen from:<br>CW 301 Intermediate Creative Nonfiction Writing<br>CW 302 Intermediate Poetry Writing<br>CW 303 Intermediate Fiction Writing<br>CW 326/ENGL 326/ART 326 Book Arts<br>CW 388 Reading as a Writer<br>ENGL 307 Literary Translation | 3       |
| <b>FF</b> CW 490 Senior Portfolio in Creative Nonfiction or<br><b>FF</b> CW 491 Senior Portfolio in Poetry or<br><b>FF</b> CW 492 Senior Portfolio in Fiction   | 3       |
| ENGL 275 Methods of Literary Studies  | 3       |
| 200-level (ENGL) literature courses   | 6       |
| 300-400 level (ENGL) literature courses   | 12      |
| Upper-division electives to total 40 credits  | 13      |
| Electives to total 120 credits  | 18-23   |
| Total   | 120     |

| Creative Writing Bachelor of Fine Arts  |         |
|---|---------|
| Course Number and Title   | Credits |
| University Foundations requirements indicated in bold. See page 48 for details and lists of approved courses.   |         |
| <b>UF 100</b> Foundations of Intellectual Life  | 3       |
| <b>UF 200</b> Foundations of Ethics and Diversity   | 3       |
| <b>FW ENGL 101</b> Writing and Rhetoric I   | 3       |
| <b>FW ENGL 102</b> Writing and Rhetoric II  | 3       |
| <b>FC</b> Foundations of Oral Communication   | 3       |
| <b>FM</b> Foundations of Mathematics course   | 3-4     |
| <b>FN</b> Foundations of Natural, Physical, & Applied Sciences course with lab  | 4       |
| <b>FN</b> Foundations of Natural, Physical, & Applied Sciences course in a second field   | 3-4     |
| <b>FA</b> Foundations of Arts course  | 3       |
| <b>FH</b> Foundations of Humanities course  | 3-4     |
| <b>FS</b> Foundations of Social Sciences course   | 3       |
| <b>FS</b> Foundations of Social Sciences course in a second field   | 3       |
| CW 201 Writing Creative Nonfiction  | 3       |
| CW 202 Writing Poetry   | 3       |
| CW 203 Writing Fiction  | 3       |
| CW 215 The Art of the Sentence  | 3       |
| CW 222 The Writing Life   | 3       |
| CW 275 Writing Studio   | 1-3     |
| CW 301 Intermediate Creative Nonfiction Writing or<br>CW 302 Intermediate Poetry Writing or<br>CW 303 Intermediate Fiction Writing  | 3       |
| CW 332 Form and Theory of Creative Writing  | 3       |
| CW 388 Reading as a Writer  | 3       |
| Take one of these 400-level writing courses twice in chosen area of study:<br>CW 401 Advanced Creative Nonfiction Writing or<br>CW 402 Advanced Poetry Writing or<br>CW 403 Advanced Fiction Writing  | 6       |
| Creative Writing electives chosen from:<br>CW 326/ART 326/ENGL 326 Book Arts<br>CW 432 Literary Editing and Publishing<br>CW 301 Intermediate Creative Nonfiction Writing<br>CW 302 Intermediate Poetry Writing<br>CW 303 Intermediate Fiction Writing<br>CW 401 Advanced Creative Nonfiction Writing<br>CW 402 Advanced Poetry Writing<br>CW 403 Advanced Fiction Writing<br>ENGL 307 Literary Translation | 9       |
| <b>FF</b> CW 490 Senior Portfolio in Creative Nonfiction or<br><b>FF</b> CW 491 Senior Portfolio in Poetry or<br><b>FF</b> CW 492 Senior Portfolio in Fiction   | 3       |
| FILM 350 Screenwriting II or<br>PHIL 337 Aesthetics or<br>THEA 340 Playwriting  | 3       |
| Choose two (2) from the following:<br>ENGL 275 Methods of Literary Studies<br>FILM 220 Cinema History and Aesthetics<br>JOUR 301 Reporting and News Writing<br>LING 205 Language in Human Life<br>MEDIA 301 Multimedia Storytelling<br>THEA 215 Acting<br>THEA 216 Acting II  | 6       |

## SUSTAINABILITY

|  |       |
|--|-------|
| Choose three (3) from the following:<br>ENGL 345 Shakespeare<br>ENGL 387 Modern and Post-Modern American Literature<br>ENGL 392 Film and Literature<br>ENGL 393 Literary Criticism and Theory<br>ENGL 430 Seminar in Fiction<br>ENGL 433 Seminar in Drama<br>JOUR 351 Advanced Journalistic Writing<br>LING 301 History of the English Language<br>THEA 330 Development of Theatre III: Contemporary Forms | 9     |
| Upper-division electives to total 40 credits   | 1     |
| Electives to total 120 credits   | 18-25 |
| Total  | 120   |

| Film and Television Arts<br>Bachelor of Arts   |                |
|--|----------------|
| <i>Course Number and Title</i>   | <i>Credits</i> |
| University Foundations requirements indicated in bold. See page 48 for details and lists of approved courses.  |                |
| <b>UF 100</b> Foundations of Intellectual Life   | 3              |
| <b>UF 200</b> Foundations of Ethics and Diversity  | 3              |
| <b>FW ENGL 101</b> Writing and Rhetoric I  | 3              |
| <b>FW ENGL 102</b> Writing and Rhetoric II   | 3              |
| <b>FC</b> Foundations of Oral Communication  | 3              |
| <b>FM</b> Foundations of Mathematics course  | 3-4            |
| <b>FN</b> Foundations of Natural, Physical, & Applied Sciences course with lab   | 4              |
| <b>FN</b> Foundations of Natural, Physical, & Applied Sciences course in a second field  | 3-4            |
| <b>FA</b> Foundations of Arts course   | 3              |
| <b>FH</b> Foundations of Humanities course   | 3-4            |
| <b>FS</b> Foundations of Social Sciences course  | 3              |
| <b>FS</b> Foundations of Social Sciences course in a second field  | 3              |
| FILM 190 Intro to Production   | 3              |
| FILM 220 Cinema History and Aesthetics   | 3              |
| FILM 230 Film Styles and Genres  | 3              |
| FILM 250 Screenwriting I   | 3              |
| FILM 290 Intermediate Production   | 3              |
| FILM 330 Film Theory   | 3              |
| FILM 430 Auteur Series   | 3              |
| <b>FF</b> FILM 495 Film Seminar  | 3              |
| THEA 105 Play Analysis   | 3              |
| Choose nine (9) credits of studies electives, of which at least six (6) credits must be upper-division, from the following:<br>ENGL 392 Film and Literature<br>GLOBAL 200 Cultural & Political Change Through Film<br>MEDIA 303 Media Aesthetics & Culture<br>URBAN 360 The City in Film<br>WORLD 321 Chinese Culture through Film | 9              |

|  |       |
|--|-------|
| Choose three (3) of the following production electives:<br>FILM 350 Screenwriting II<br>FILM 355 Writing for TV<br>FILM 360 Postproduction<br>FILM 370 Producing for Film<br>FILM 371 Production Design<br>FILM 372 Cinematography<br>FILM 390 Directing Film<br>FILM 401 NTVI Writers Room<br>FILM 402 NTVI Preproduction<br>FILM 403 NTVI Production<br>FILM 404 NTVI Postproduction<br>FILM 470 Film and TV Entrepreneurship<br>MEDIAPRO 201 Digital Imaging<br>MEDIAPRO 202 Audio Production<br>MEDIAPRO 361 Motion Graphics<br>MEDIAPRO 402 Advanced Audio Production | 9     |
| Upper-division electives to total 40 credits   | 13-16 |
| Electives to total 120 credits   | 22    |
| Total  | 120   |
| *Course may be repeated for credit once.   |       |

### Minimum Criteria for Admission to BFA in Film and Television Arts

- Have a declared major in the Boise State University Department of Theatre, Film, and Creative Writing.
- Successful completion of THEA 105 Play Analysis, FILM 190 Introduction to Production, and FILM 220 Cinema History and Aesthetics.
- Cumulative GPA of 2.5. You must earn a C- or better in all FILM and THEA courses in order for them to count toward your degree.

An application to the BFA will include the following:

- a current transcript,
- a portfolio of creative work, and
- an application statement.

Additional direction, assistance, and specific deadlines for each year's application process will be relayed in FILM 190.

| Film and Television Arts<br>Bachelor of Fine Arts   |                |
|---|----------------|
| <i>Course Number and Title</i>  | <i>Credits</i> |
| University Foundations requirements indicated in bold. See page 48 for details and lists of approved courses. |                |
| <b>UF 100</b> Foundations of Intellectual Life  | 3              |
| <b>UF 200</b> Foundations of Ethics and Diversity   | 3              |
| <b>FW ENGL 101</b> Writing and Rhetoric I   | 3              |
| <b>FW ENGL 102</b> Writing and Rhetoric II  | 3              |
| <b>FC</b> Foundations of Oral Communication   | 3              |
| <b>FM</b> Foundations of Mathematics course   | 3-4            |
| <b>FN</b> Foundations of Natural, Physical, & Applied Sciences course with lab                                | 4              |
| <b>FN</b> Foundations of Natural, Physical, & Applied Sciences course in a second field                       | 3-4            |
| <b>FA</b> Foundations of Arts course  | 3              |
| <b>FH</b> Foundations of Humanities course  | 3-4            |
| <b>FS</b> Foundations of Social Sciences course   | 3              |
| <b>FS</b> Foundations of Social Sciences course in a second field   | 3              |
| FILM 190 Intro to Production  | 3              |
| FILM 220 Cinema History and Aesthetics  | 3              |
| FILM 230 Film Styles and Genres   | 3              |
| FILM 250 Screenwriting I  | 3              |

THEATRE, FILM, AND CREATIVE WRITING

|  |     |
|--|-----|
| FILM 290 Intermediate Production   | 3   |
| FILM 330 Film Theory   | 3   |
| FILM 360 Postproduction  | 3   |
| FILM 390 Directing Film  | 3   |
| FILM 491 Advanced Production I   | 3   |
| <b>FF</b> FILM 492 Advanced Production II  | 3   |
| THEA 105 Play Analysis   | 3   |
| Choose three (3) of the following Narrative TV Initiative courses.<br>FILM 401 NTVI Writers Room<br>FILM 402 NTVI Preproduction<br>FILM 403 NTVI Production<br>FILM 404 NTVI Postproduction  | 9   |
| Choose 18 credits of production electives, of which at least 12 credits must be upper-division, from the following:<br>FILM 350 Screenwriting II*<br>FILM 355 Writing for TV*<br>FILM 371 Production Design<br>FILM 372 Cinematography<br>MEDIA 116/316 Media Activities: Studio Television for Community<br>MEDIA 117/317 Media Activities: UTP<br>MEDIA 301 Multimedia Storytelling<br>MEDIAPRO 201 Digital Imaging<br>MEDIAPRO 202 Audio Production<br>MEDIAPRO 361 Motion Graphics<br>MEDIAPRO 402 Advanced Audio Production<br>THEA 215 Acting I<br>THEA 216 Acting II<br>THEA 340 Playwriting<br>THEA 352 Costume Design | 18  |
| Choose three (3) of the following producing and entrepreneurship electives:<br>AE 101 Working Artists in the 21 <sup>st</sup> Century<br>AE 201 Entrepreneurship & Innovation in the Creative Sector<br>AE 401 Marketing and the Arts<br>AE 402 Finance and Fundraising for the Arts<br>FILM 370 Producing for Film<br>FILM 470 Film and TV Entrepreneurship<br>MEDIA 401 Media Law and Ethics<br>THEA 440 Arts Management   | 9   |
| Choose nine (9) credits of studies electives, of which at least six (6) credits must be upper-division, from the following:<br>ENGL 392 Film and Literature<br>FILM 430 Auteur Series*<br>GLOBAL 200 Cultural & Political Change Through Film<br>MEDIA 303 Media Aesthetics and Culture<br>URBAN 360 The City in Film<br>WORLD 321 Chinese Culture through Film  | 9   |
| Electives to total 120 credits   | 2-5 |
| Total  | 120 |
| *Course may be repeated for credit once.   |     |

| Narrative Arts<br>Bachelor of Fine Arts  |         |
|--|---------|
| Course Number and Title  | Credits |
| University Foundations requirements indicated in bold. See page 48 for details and lists of approved courses.  |         |
| <b>UF</b> 100 Foundations of Intellectual Life   | 3       |
| <b>UF</b> 200 Foundations of Ethics and Diversity  | 3       |
| <b>FW</b> ENGL 101 Writing and Rhetoric I  | 3       |
| <b>FW</b> ENGL 102 Writing and Rhetoric II   | 3       |
| <b>FC</b> Foundations of Oral Communication  | 3       |
| <b>FM</b> Foundations of Mathematics course  | 3-4     |
| <b>FN</b> Foundations of Natural, Physical, & Applied Sciences course with lab   | 4       |
| <b>FN</b> Foundations of Natural, Physical, & Applied Sciences course in a second field  | 3-4     |
| <b>FA</b> Foundations of Arts course   | 3       |
| <b>FH</b> Foundations of Humanities course   | 3-4     |
| <b>FS</b> Foundations of Social Sciences course  | 3       |
| <b>FS</b> Foundations of Social Sciences course in a second field  | 3       |
| CW 201 Writing Creative Nonfiction   | 3       |
| CW 203 Writing Fiction   | 3       |
| CW 233 Fundamentals of Narrative   | 3       |
| CW 275 Writing Studio  | 1-3     |
| CW 301 Intermediate Creative Nonfiction Writing  | 3       |
| CW 303 Intermediate Fiction Writing  | 3       |
| CW 332 Form and Theory of Creative Writing   | 3       |
| CW 388 Reading as a Writer   | 3       |
| CW 401 Advanced Creative Nonfiction Writing  | 3       |
| CW 403 Advanced Fiction Writing  | 3       |
| FILM 350 Screenwriting II  | 3       |
| THEA 105 Play Analysis   | 3       |
| THEA 340 Playwriting   | 3       |
| <b>FF</b> CW 490 Senior Portfolio in Creative Nonfiction or<br><b>FF</b> CW 492 Senior Portfolio in Fiction  | 3       |
| Narrative Arts electives chosen from:<br>FILM 190 Intro to Production<br>FILM 220 Cinema: History and Aesthetics<br>FILM 290 Intermediate Production<br>JOUR 301 Reporting and News Writing<br>PSYC 101 Introduction to Psychology<br>THEA 215 Acting I<br>THEA 216 Acting II  | 6       |
| Narrative Arts electives chosen from:<br>CW 326/ART 326/ENGL 326 Book Arts<br>ENGL 307 Literary Translation<br>ENGL 387 Modern and Post-Modern American Literature<br>ENGL 392 Film and Literature<br>ENGL 430 Seminar in Fiction<br>ENGL 433 Seminar in Drama<br>FILM 372 Cinematography<br>FILM 401 NTVI Writers Room<br>FILM 402 NTVI Preproduction<br>FILM 403 NTVI Production<br>FILM 404 NTVI Postproduction<br>JOUR 351 Advanced Journalistic Writing<br>MEDIAPRO 301 Video Production<br>THEA 330 Development of Theatre III: Contemporary Forms | 12      |
| Electives to total 120 credits   | 20-25   |
| Total  | 120     |

## SUSTAINABILITY

| Theatre Arts<br>Bachelor of Arts   |                |
|--|----------------|
| <i>Course Number and Title</i>   | <i>Credits</i> |
| University Foundations requirements indicated in bold. See page 48 for details and lists of approved courses.  |                |
| <b>UF 100</b> Foundations of Intellectual Life   | 3              |
| <b>UF 200</b> Foundations of Ethics and Diversity  | 3              |
| <b>FW ENGL 101</b> Writing and Rhetoric I  | 3              |
| <b>FW ENGL 102</b> Writing and Rhetoric II   | 3              |
| <b>FC</b> Foundations of Oral Communication  | 3              |
| <b>FM</b> Foundations of Mathematics course  | 3-4            |
| <b>FN</b> Foundations of Natural, Physical, & Applied Sciences course with lab   | 4              |
| <b>FN</b> Foundations of Natural, Physical, & Applied Sciences course in a second field  | 3-4            |
| <b>FA ART 100</b> Intro to Art or<br><b>FA MUSI 100</b> Intro to Music   | 3              |
| <b>FH</b> Foundations of Humanities course   | 3-4            |
| <b>FS</b> Foundations of Social Sciences course  | 3              |
| <b>FS</b> Foundations of Social Sciences course in a second field  | 3              |
| THEA 010 Theatre Symposium<br>(Required each semester for all theatre arts majors. )   | 0              |
| THEA 105 Play Analysis   | 3              |
| THEA 117-118 Technical Theatre I and II  | 8              |
| THEA 215 Acting I  | 3              |
| THEA 230 Development of Theatre I: Classical—<br>Neoclassical Forms  | 3              |
| THEA 231 Major Production Participation  | 1              |
| THEA 260 Development of Theatre II: Modern Forms   | 3              |
| THEA 301 Directing I   | 3              |
| THEA 330 Development of Theatre III: Contemporary<br>Forms   | 3              |
| THEA 331 Advanced Major Production Participation   | 1              |
| THEA 360 Advanced Studies in Theatre History or<br>THEA 390 Dramaturgy   | 3              |
| <b>FF</b> THEA 491 Senior Projects   | 3              |
| Performance/Production courses chosen from:<br>FILM 350 Screenwriting II (may be repeated for elective<br>credit only)<br>THEA 216 Acting II<br>THEA 233 Stage Voice I<br>THEA 234 Stage Voice II<br>THEA 300 Stage Management<br>THEA 302 Directing II<br>THEA 311 Advanced Acting<br>THEA 340 Playwriting (may be repeated for elective<br>credit only)<br>THEA 410 Repertory Dance (may be repeated for<br>elective credit only)<br>THEA 412 Movement and Dance for the Performing Artist<br>THEA 440 Arts Management | 12             |
| Design/Technology courses chosen from:<br>THEA 310 Sound for the Theatre<br>THEA 351 Elements of Scene Design<br>THEA 352 Costume Design<br>THEA 362 Stage Lighting Design   | 6              |
| Upper-division electives to total 40 credits   | 9-16           |
| Electives to total 120 credits   | 15-18          |
| <b>Total</b>   | <b>120</b>     |
| The department recommends that theatre arts majors take one year of foreign language.  |                |

## Theatre Arts, Secondary Education

The Theatre Arts, Secondary Education program is designed to assist students in developing the knowledge, skills, and dispositions essential for success in teaching theatre and drama at the secondary level. Coursework combines content knowledge and production experience, theories of learning and human development, study of curriculum, and methodology. The program is grounded in the conceptual framework of the Professional Educator. Professional educators adjust their teaching approaches and learning environment to the needs and backgrounds of their students. Candidates who complete this program demonstrate evidence of meeting the Idaho Beginning Teacher Standards and are eligible for recommendation for state certification.

Students wishing to pursue this degree must meet the requirements and standards for admission to teacher education, which are fully described under the Department of Curriculum, Instruction, and Foundational Studies or at <https://www.boisestate.edu/education/>. Students are expected to meet all knowledge, skill, and dispositional requirements for continued enrollment in the program.

| Theatre Arts, Secondary Education<br>Bachelor of Arts   |                |
|---|----------------|
| <i>Course Number and Title</i>  | <i>Credits</i> |
| University Foundations requirements indicated in bold. See page 48 for details and lists of approved courses.   |                |
| <b>UF 100</b> Foundations of Intellectual Life  | 3              |
| <b>UF 200</b> Foundations of Ethics and Diversity   | 3              |
| <b>FW ENGL 101</b> Writing and Rhetoric I   | 3              |
| <b>FW ENGL 102</b> Writing and Rhetoric II  | 3              |
| <b>FC</b> Foundations of Oral Communication   | 3              |
| <b>FM</b> Foundations of Mathematics course   | 3-4            |
| <b>FN</b> Foundations of Natural, Physical, & Applied Sciences course with lab  | 4              |
| <b>FN</b> Foundations of Natural, Physical, & Applied Sciences course in a second field   | 3-4            |
| <b>FA ART 100</b> Intro to Art or <b>MUSI 100</b> Intro to Music  | 3              |
| <b>FH</b> Foundations of Humanities course  | 3-4            |
| <b>FS ED-CIFS 201</b> Education, Schooling, and Society   | 3              |
| <b>FS</b> Foundations of Social Sciences course in a second field   | 3              |
| EDTECH 202 Teaching and Learning in a Digital Age   | 3              |
| ED-CIFS 301* Teaching Experience I  | 2              |
| ED-CIFS 302* Learning and Instruction   | 4              |
| ED-CIFS 401* Professional Year—Teaching Experience II   | 3              |
| ED-LLC 444* Content Literacy for Secondary Students   | 3              |
| ED-ESP 350* Teaching Students with Exceptional Needs at the Secondary Level   | 3              |
| Teaching Experience III/IV*   | 14             |
| *You must apply for admission to secondary teacher education to enroll in these upper-division education courses. Completion of all requirements for graduation with a secondary education option may require more than 120 credit hours. See Department of Curriculum, Instruction, and Foundational Studies for more information. |                |
| THEA 010 Theatre Symposium<br>(Required each semester for all theatre arts majors. )  | 0              |
| THEA 105 Play Analysis  | 3              |
| THEA 117-118 Technical Theatre I and II   | 8              |
| THEA 215-216 Acting I and II  | 6              |
| THEA 230 Development of Theatre I: Classical—<br>Neoclassical Forms   | 3              |

THEATRE, FILM, AND CREATIVE WRITING

|  |     |
|--|-----|
| THEA 231 Major Production Participation                      | 1   |
| THEA 233 Stage Voice I                                       | 2   |
| THEA 260 Development of Theatre II: Modern Forms             | 3   |
| THEA 301-302 Directing I & II                                | 6   |
| THEA 318 Methods of Teaching Secondary School Theatre        | 2   |
| THEA 331 Advanced Major Production Participation             | 1   |
| THEA 351 Elements of Scenic Design                           | 3   |
| THEA 352 Costume Design or<br>THEA 362 Stage Lighting Design | 3   |
| THEA 440 Arts Management                                     | 3   |
| FF THEA 491 Senior Projects                                  | 3   |
| Electives to total 120 credits                               | 1-4 |
| Total  | 120 |

| Creative Writing Minor   |                |
|--|----------------|
| <i>Course Number and Title</i>   | <i>Credits</i> |
| CW 201 Writing Creative Nonfiction   | 3              |
| CW 202 Writing Poetry  | 3              |
| CW 203 Writing Fiction   | 3              |
| CW 301 Intermediate Creative Nonfiction Writing or<br>CW 302 Intermediate Poetry Writing or<br>CW 303 Intermediate Fiction Writing | 3              |
| CW 332 Form and Theory of Creative Writing   | 3              |
| CW 388 Reading as a Writer   | 3              |
| CW 401 Advanced Creative Nonfiction Writing or<br>CW 402 Advanced Poetry Writing or<br>CW 403 Advanced Fiction Writing             | 3              |
| Additional 300-level or 400-level CW course  | 3              |
| Total  | 24             |

| Dance Minor   |                |
|---|----------------|
| <i>Course Number and Title</i>  | <i>Credits</i> |
| THEA 210 Repertory Dance  | 2              |
| THEA 410 Repertory Dance  | 2              |
| THEA 212/412 Movement and Dance for the Performing Artist   | 3              |
| Ballet Technique chosen from:<br>THEA 112 Ballet I<br>THEA 213 Ballet II<br>THEA 314 Ballet III   | 4              |
| Dance electives chosen from:<br>THEA 116 Beginning/Intermediate Pointe Technique<br>THEA 123 Modern Dance<br>THEA 125 Jazz Dance<br>THEA 205 Men's Ballet Technique<br>THEA 223 Modern Dance II<br>THEA 225 Jazz Dance II<br>THEA 316 Advanced Pointe Technique Class | 4              |
| BIOL 107 Introduction to Human Biology or<br>BIOL 227 Human Anatomy and Physiology I  | 4              |
| KINES 270 Applied Anatomy   | 3              |
| MUSI 100 Introduction to Music  | 3              |
| Approved Electives  | 3-4            |
| Total   | 28-29          |

| Film and Television Arts Minor   |                |
|--|----------------|
| <i>Course Number and Title</i>   | <i>Credits</i> |
| FILM 190 Intro to Production   | 3              |
| FILM 220 Cinema: History and Aesthetics  | 3              |
| FILM 230 Film Styles and Genres  | 3              |
| Choose three (3) of the following production electives:<br>FILM 250 Screenwriting I<br>FILM 290 Intermediate Production<br>FILM 350 Screenwriting II<br>FILM 355 Writing for TV<br>FILM 360 Postproduction<br>FILM 370 Producing for Film<br>FILM 371 Production Design<br>FILM 372 Cinematography<br>FILM 390 Directing Film<br>FILM 470 Film and TV Entrepreneurship | 9              |
| Choose six (6) credits of the following studies electives.<br>ENGL 392 Film and Literature<br>FILM 330 Film Theory<br>FILM 430 Auteur Series*<br>GLOBAL 200 Cultural & Political Change Through Film<br>MEDIA 303 Media Aesthetics and Culture<br>URBAN 360 The City in Film<br>WORLD 321 Chinese Culture through Film<br>*Course may be repeated for credit.          | 6              |
| Total  | 24             |

| Theatre Arts Minor   |                |
|--|----------------|
| <i>Course Number and Title</i>   | <i>Credits</i> |
| THEA 105 Play Analysis   | 3              |
| THEA 117 Technical Theatre I   | 4              |
| THEA 118 Technical Theatre II  | 4              |
| THEA 215 Acting I  | 3              |
| THEA 230 Development of Theatre I: Classical—<br>Neoclassical Forms  | 3              |
| THEA 231 Major Production Participation  | 1              |
| THEA 331 Advanced Major Production Participation   | 1              |
| One course chosen from the following:<br>THEA 216 Acting II<br>THEA 260 Development of Theatre II: Modern Forms<br>THEA 340 Playwriting<br>THEA 351 Elements of Scenic Design<br>THEA 352 Costume Design<br>THEA 362 Stage Lighting Design<br>THEA 440 Arts Management | 3              |
| Total  | 22             |

| Narrative Arts Certificate  |                |
|---|----------------|
| <i>Course Number and Title</i>  | <i>Credits</i> |
| CW 201 Writing Creative Nonfiction  | 3              |
| CW 203 Writing Fiction  | 3              |
| CW 233 Fundamentals of Narrative  | 3              |
| CW 301 Intermediate Creative Nonfiction Writing or<br>CW 303 Intermediate Fiction Writing | 3              |
| THEA 105 Play Analysis  | 3              |
| FILM 350 Screenwriting II or<br>THEA 340 Playwriting                                      | 3              |

## SUSTAINABILITY

|   |           |
|---|-----------|
| Choose one (1) from the following:<br>CW 222 The Writing Life<br>FILM 220 Cinema: History and Aesthetics<br>JOUR 301 Reporting and News Writing<br>PSYC 101 Introduction to Psychology<br>THEA 215 Acting I<br>THEA 216 Acting II   | 3         |
| Choose one (1) from the following:<br>CW 326/ART 326/ENGL 326 Book Arts<br>CW 332 Form and Theory of Creative Writing<br>CW 401 Advanced Creative Nonfiction Writing<br>CW 403 Advanced Fiction Writing<br>ENGL 307 Literary Translation<br>ENGL 345 Shakespeare<br>ENGL 387 Modern and Post-Modern American Literature<br>ENGL 392 Film and Literature<br>ENGL 393 Literary Criticism and Theory<br>ENGL 430 Seminar in Fiction<br>ENGL 433 Seminar in Drama<br>JOUR 351 Advanced Journalistic Writing<br>FILM 360 Postproduction<br>MEDIAPRO 401 Advanced Video Production<br>THEA 330 Development of Theatre III: Contemporary Forms | 3         |
| <b>Total</b>  | <b>24</b> |

| Drama Teaching Endorsement  |                |
|---|----------------|
| <i>Course Number and Title</i>  | <i>Credits</i> |
| COMM 101 Fundamentals of Oral Communication   | 3              |
| THEA 117 Technical Theatre I  | 4              |
| THEA 215 Acting I   | 3              |
| THEA 230 Development of Theatre I: Classical-Neoclassical Forms                           | 3              |
| THEA 260 Development of Theatre II: Modern Forms  | 3              |
| THEA 301 Directing I  | 3              |
| THEA 331 Advanced Major Production Participation  | 1              |
| <b>Total</b>  | <b>20</b>      |
| See Department of Curriculum, Instruction, and Foundational Studies for more information. |                |

## Course Offerings

### CW—Creative Writing

#### Lower Division

#### **CW 201 WRITING CREATIVE NONFICTION (3-0-3)(F, S, SU).**

Introduction to writing creative nonfiction. Close reading of creative nonfiction texts, creative nonfiction writing exercises, and discussion of student's original creative nonfiction in a workshop setting. PREREQ: ENGL 102 or equivalent.

**CW 202 WRITING POETRY (3-0-3)(F, S, SU).** Introduction to writing poetry. Close reading of poetry texts, poetry writing exercises, and discussion of student's original poetry in a workshop setting. PREREQ: ENGL 102 or equivalent.

**CW 203 WRITING FICTION (3-0-3)(F, S, SU).** Introduction to writing fiction. Close reading of fiction texts, fiction writing exercises, and discussion of student's original fiction in a workshop setting. PREREQ: ENGL 102 or equivalent.

**CW 215 THE ART OF THE SENTENCE (3-0-3)(F, S).** Intensive study of the possibilities of English grammar in the context of creative nonfiction, poetry, and fiction, with particular attention to students' own writing.

**CW 222 THE WRITING LIFE (3-0-3)(F, S, SU).** An exploration of the writer in society, both as artistic endeavor and profession. Students will be

introduced to literary disciplines including poetry, fiction, creative nonfiction, and writing for the stage and screen. PREREQ: ENGL 102 or equivalent.

**CW 233 FUNDAMENTALS OF NARRATIVE (3-0-3)(F, S, SU).** An introduction to the origins, evolution, theory, and practice of storytelling. PREREQ: ENGL 102 or equivalent.

**CW 275 WRITING STUDIO (1-0-1)(F, S, SU).** Intensive one-on-one study of selected creative writing discipline with faculty mentor. May be repeated twice for credit. PREREQ: ENGL 102 or equivalent.

#### Upper Division

**CW 301 INTERMEDIATE CREATIVE NONFICTION WRITING (3-0-3)(F, S, SU).** Exploration of genres of creative nonfiction with an emphasis on contemporary writers. Students will write original creative nonfiction and discuss it in a workshop format. May be repeated once for credit. PREREQ: CW 201 or ENGL 204.

**CW 302 INTERMEDIATE POETRY WRITING (3-0-3)(F, S, SU).** Exploration of poetic technique and the study of how poets read and learn from other poets. Students will write original poetry and discuss it in a workshop format. May be repeated once for credit. PREREQ: CW 202.

**CW 303 INTERMEDIATE FICTION WRITING (3-0-3)(F, S, SU).** Exploration of narrative technique, dialogue form, and the short story. Students will write original fiction and discuss it in a workshop format. May be repeated once for credit. PREREQ: CW 203.

**CW 326 (ART 326)(ENGL 326) BOOK ARTS (3-0-3)(F, S, SU).** A practical exploration of the history of books as conduits of meaning and as physical objects. Papermaking, typography, printing, binding, authorship, and contemporary bookworks will be examined on both theoretical and practical levels. Students produce a classroom edition. May be taken for CW, ART, or ENGL credit, but not from more than one department. PREREQ for CW 326: ENGL 102; for ENGL 326: ENGL 102; for ART 326: Admission to Visual Art, ART 108.

**CW 332 FORM AND THEORY OF CREATIVE WRITING (3-0-3)(F/S).** An intensive study of aspects of craft in either fiction, poetry or creative nonfiction. Course will expose students to particular methods, approaches, and techniques in a genre and their aesthetic effects. May be repeated once for credit. PREREQ: PERM/INST.

**CW 388 READING AS A WRITER (3-0-3)(F, S, SU).** An examination of literature through the eyes of a writer, focusing on craft and technique. PREREQ: ENGL 102 or equivalent.

**CW 402 ADVANCED POETRY WRITING (3-0-3)(F, S, SU).** Intensive work in writing and critiquing poetry. Students seeking graduate credit will produce a greater quantity and higher quality of original work, will have a separate and more extensive reading list, and will be expected to participate more fully in class activities. May be repeated once for credit. PREREQ: CW 302 or PERM/INST.

**CW 401 ADVANCED CREATIVE NONFICTION WRITING (3-0-3)(F, S, SU).** Intensive work in writing and critiquing creative nonfiction. Students seeking graduate credit will produce a greater quantity and higher quality of original work, will have a separate and more extensive reading list, and will be expected to participate more fully in class activities. May be repeated once for credit. PREREQ: CW 301 or ENGL 304 or PERM/INST.

**CW 403 ADVANCED FICTION WRITING (3-0-3)(F, S, SU).** Intensive work in writing and critiquing fiction. Students seeking graduate credit will produce a greater quantity and higher quality of original work, will have a separate and more extensive reading list, and will be expected to participate more fully in class activities. May be repeated once for credit. PREREQ: CW 303 or PERM/INST.

**CW 432 LITERARY EDITING AND PUBLISHING (3-0-3)(F/S).** Study of literary magazines and/or small presses with the intention of preparing students to submit their own work for publication, as well as develop hands-on editorial



skills and experience by assisting with The Idaho Review or Ahsahta Press. PREREQ: PERM/INST.

**CW 490 SENIOR PORTFOLIO IN CREATIVE NONFICTION (3-0-3)(F/S)(FF).** Extensive revision of previous written work in creative writing courses and creation of portfolio focused on creative nonfiction. Students will also learn about the publishing process and how to apply effectively for graduate programs in creative writing. Portfolio may include other documents to use in post-college writing careers, such as cover letters and agent queries. PREREQ: Senior standing and PERM/INST.

**CW 491 SENIOR PORTFOLIO IN POETRY (3-0-3)(F/S)(FF).** Extensive revision of previous written work in creative writing courses and creation of portfolio focused on poetry. Students will also learn about the publishing process and how to apply effectively for graduate programs in creative writing. Portfolio may include other documents to use in post-college writing careers, such as cover letters and agent queries. PREREQ: Senior standing and PERM/INST.

**CW 492 SENIOR PORTFOLIO IN FICTION (3-0-3)(F/S)(FF).** Extensive revision of previous written work in creative writing courses and creation of portfolio focused on fiction. Students will also learn about the publishing process and how to apply effectively for graduate programs in creative writing. Portfolio may include other documents to use in post-college writing careers, such as cover letters and agent queries. PREREQ: Senior standing and PERM/INST.

## FILM—Film and Television Arts

### Lower Division

**FILM 190 INTRO TO PRODUCTION (3-0-3)(F, S).** Introduction to the theory and practice of film production.

**FILM 220 CINEMA: HISTORY AND AESTHETICS (3-0-3)(F, S)(FA).** Designed to provide knowledge of the development of motion pictures with attention given to the elements and qualities peculiar to cinema which give it validity as a unique and multi-cultural art form.

**FILM 230 FILM STYLES AND GENRES (3-2-3)(F/S).** Viewing a variety of international cinema masterpieces from different periods, analyze and discuss these films in terms of formal elements, historical/social context, and industrial constraints. Concepts of genre, authorship and ideology will also be introduced, providing requisite critical tools for analytical writing on a wide range of film art.

**FILM 250 SCREENWRITING I (3-0-3)(F/S).** Creative and critical exploration of writing for the screen, with an emphasis on the short film. Students will write and analyze scripts with a focus on the basic theory and formal aspects of story, structure, and character.

**FILM 290 INTERMEDIATE PRODUCTION (3-0-3)(F/S).** Survey and application of narrative and nonfiction production theory and practice. PREREQ: FILM 190.

### Upper Division

**FILM 330 FILM THEORY (3-2-3)(F/S).** Survey of historical and contemporary film theory, and application through critical analysis of film texts. PREREQ: FILM 230.

**FILM 350 SCREENWRITING II (3-0-3)(S).** Creating a premise, synopsis, treatment, and first draft of a full-length feature screenplay. May be repeated once for credit.

**FILM 355 WRITING FOR TV (3-0-3)(F).** This course explores writing for series television. Over the course of the semester, students will write "spec" scripts and original pilots. The class will take an in-depth look at TV writing from the inside out, learning how to "break" an episode and how a TV writer's room works. May be repeated once for credit. PREREQ: FILM 250.

**FILM 360 POSTPRODUCTION (3-0-3)(F, S).** Theory, techniques, and tools of non-linear film editing. PREREQ: FILM 190.

**FILM 370 PRODUCING FOR FILM (3-0-3)(F/S).** Examines the film industry in terms of financing, distribution and exhibition of films, the interaction between art and business in film production, and skills for working with creative talent. PREREQ: Upper-division standing.

**FILM 371 PRODUCTION DESIGN (3-0-3)(F/S).** A study of the theories, principles and practices of motion picture design including both aesthetic conception and practical application. PREREQ: FILM 190.

**FILM 372 CINEMATOGRAPHY (3-0-3)(F/S).** Practical exploration of the art and craft of motion picture creative image control, focusing on the application of foundational principles, theory, and tools of lighting and cinematography. PREREQ: FILM 290.

**FILM 390 DIRECTING FILM (3-0-3)(F/S).** Advanced work in theory and practice of film production. PREREQ: FILM 290 and FILM 250.

**FILM 401 NTVI WRITERS ROOM (3-0-3)(F).** Students will collaboratively develop and write original narrative television shows for production in the Narrative TV Initiative. May be repeated for credit. PREREQ: PERM/INST.

**FILM 402 NTVI PREPRODUCTION (3-0-3)(S).** Students will develop the narrative television show written in the Narrative TV Initiative Writers Room for production, undertaking all phases of preproduction, both logistical and creative. May be repeated for credit. PREREQ: PERM/INST.

**FILM 403 NTVI PRODUCTION (0-6-3)(SU).** The third phase of the Narrative TV Initiative, actors and production students will produce, under faculty and professional mentorship, the first season of an original narrative television show. May be repeated for credit. PREREQ: PERM/INST.

**FILM 404 NTVI POSTPRODUCTION (3-0-3)(F).** Students will undertake post production, marketing, and distribution of the original television show created and produced in the Narrative TV Initiative. May be repeated for credit. PREREQ: PERM/INST.

**FILM 430 AUTEUR SERIES (3-2-3)(F/S).** A rotating series studying filmmakers and TV creators, focusing on issues of authorship, aesthetics and worldview as represented over a body of work. Course may be repeated for credit. PREREQ: FILM 330.

**FILM 470 FILM AND TV ENTREPRENEURSHIP (3-0-3)(F/S).** Focus on independent film and television production and distribution. Packaging, pitching, fundraising, producing, and distribution in an ever-shifting digital landscape. PREREQ: FILM 370.

**FILM 491 ADVANCED PRODUCTION I (3-0-3)(F, S).** Culminating experience for film students in production of an advanced project. Projects may be narrative, nonfiction, multimedia, or writing format. PREREQ: FILM 390 and senior standing.

**FILM 492 ADVANCED PRODUCTION II (3-0-3)(F, S)(FF).** Culminating experience for film students in post production of an advanced project. Projects may be narrative, nonfiction, multimedia, or writing format. PREREQ: FILM 491 and senior standing.

**FILM 495 FILM SEMINAR (3-0-3)(F, S)(FF).** Students produce and present projects, productions and/or research addressing questions of film theory and practice in a seminar setting. PREREQ: FILM 430 and senior standing.

## THEA—Theatre Arts

### Lower Division

**THEA 010 THEATRE SYMPOSIUM (no credit)(F/S).** A forum for the presentation and discussion of appropriate theatre-related topics and activities. Class meets weekly. Required of all full-time theatre arts majors each semester, but open to any person. Theatre arts majors may miss no more than four sessions in one semester.

**THEA 101 INTRODUCTION TO THEATRE (3-0-3)(F, S)(FA).** Designed to create discerning and appreciative audience members through experiencing live theatre, practicing performance criticism, and studying theatre production processes, theatre history, and dramatic literature.

## SUSTAINABILITY

**THEA 102 BEGINNING BALLET I (0-2-1)(F).** Basics of classical dance. Beginning barre work and center training to build strength and flexibility. Designed for students with no prior experience. May be repeated for a maximum of two credits. (Pass/Fail.)

**THEA 103 BEGINNING BALLET II (0-2-1)(S).** A continuation of THEA 102. May be repeated for a maximum of two credits. (Pass/Fail.) PREREQ: THEA 102 or PERM/INST.

**THEA 105 PLAY ANALYSIS (3-0-3)(F, S).** Analysis of plays, both modern and historical, to provide tools for the student to read a text critically and creatively for use in production.

**THEA 112 BALLET I (0-3-1)(F, S).** Beginning/intermediate classical ballet technique and movement vocabulary, for improving strength, flexibility, and correct body alignment. May be repeated for a maximum of four credits. PREREQ: THEA 103 or PERM/INST.

**THEA 116 BEGINNING/INTERMEDIATE POINTE TECHNIQUE (0-2-1)(F).** Pointe technique with emphasis on strength and alignment. May be repeated for credit. PREREQ: PERM/INST. COREQ: THEA 112, THEA 213, THEA 314, or THEA 316.

**THEA 117 TECHNICAL THEATRE I (3-3-4)(F).** Provides practical knowledge and skill in the principles of the technical aspects of theatre.

**THEA 118 TECHNICAL THEATRE II (3-3-4)(S).** Development of drafting skills, problem-solving in staging, and the rudiments of lighting and design. PREREQ: THEA 117 or PERM/INST.

**THEA 123 MODERN DANCE (0-2-1)(F).** Opportunities for developing a sensitivity to the use of body movement, space, and time for creative expression. Improvement of flexibility, balance, coordination, and relaxation by using modern dance techniques and movement exploration. May be repeated for a maximum of two credits. (Pass/Fail.)

**THEA 125 JAZZ DANCE (0-2-1)(F).** Basic fundamentals and techniques of jazz dance. May be repeated for a maximum of two credits. (Pass/Fail.)

**THEA 162 STAGE MAKE-UP (3-0-3)(F).** Investigation and production analysis of stage makeup; the relationship of actor to play and audience, an integration of make-up, and other technical aspects that influence this particular art. Practical application emphasized.

**THEA 205 MEN'S BALLET TECHNIQUE (0-2-1)(S).** Emphasis is on body strengthening necessary to accomplish male-oriented ballet technique. Focuses on jumps, turns, and gran allegro required of male dancers in a classical and contemporary repertoire. May be repeated for credit. PREREQ: THEA 102 or PERM/INST.

**THEA 210 REPERTORY DANCE (0-3-2)(F, S).** Choreography class for the creatively inclined dance student. Designed to give the student an opportunity to work with a professional choreographer to learn methods of choreography, to rehearse, and to prepare for performance. Requirements involve choreographing a dance piece during the semester and perform in the faculty choreography. At least one year of dance training is recommended. May be repeated once at each level for credit. PREREQ: PERM/INST.

**THEA 212 MOVEMENT AND DANCE FOR THE PERFORMING ARTIST (3-0-3)(S).** Designed to increase a student's capacity and versatility for movement that may be required in all types of theatrical productions. A large amount of material is covered including the basics of: body awareness, strengthening and stretching, partnership, tap, musical theatre, fight choreography, turning, Elizabethan dance, fencing, polkas, waltzes, mazurkas, working with props, and movement studies reflecting character and situation.

**THEA 213 BALLET II (0-3-1)(F, S).** An intermediate classical ballet technique class designed to follow THEA 112 Ballet I. May be repeated for a maximum of four credits. PREREQ: Two semesters of THEA 112 or PERM/INST.

**THEA 215 ACTING I (3-0-3)(F, S).** Beginning level exploration and development of the fundamental creative, physical, and analytical skills of

acting. The study of basic acting terminology and theory will be augmented by writing assignments and selected reading.

**THEA 216 ACTING II (3-0-3)(F).** Intermediate acting study based on the continued exploration of the elements of physical action and their application to scene work. Class exercises and scenes will reinforce the development of basic acting tools learned in THEA 215 and will introduce methods of analyzing dramatic events, actions, characters, relationships and environments. Preparation and performance of various scenes will be augmented by writing assignments and selected reading. Concurrent enrollment in THEA 233 required for theatre arts majors. PREREQ: THEA 105 and THEA 215, or PERM/INST.

**THEA 218 SCENE PAINTING (0-6-3)(S)(Even years).** Beginning and intermediate research and preparation through color theory and faux finishes.

**THEA 223 MODERN DANCE II (0-2-1)(S).** Instruction and participation in intermediate modern dance for development of flexibility, balance, coordination, and movement control leading to dance choreography and production work. May be repeated for a maximum of four credits. PREREQ: THEA 123 or PERM/INST.

**THEA 225 JAZZ DANCE II (0-2-1)(S).** Expands jazz dance training, exploring fundamentals used in jazz dance, while focusing on different styles including hip-hop, classical jazz and lyrical, leading to choreography and production work. May be repeated for credit. PREREQ: THEA 125 or PERM/INST.

**THEA 230 DEVELOPMENT OF THEATRE I: CLASSICAL-NEOCLASSICAL FORMS (3-0-3)(F).** Designed to integrate the study of the history of theatre and dramatic literature (from the classical through neoclassical periods) with the opportunity to develop communication skills important in the field of theatre studies. PREREQ: ENGL 102.

**THEA 231 MAJOR PRODUCTION PARTICIPATION (0-3-1)(F, S).** Participation in a major college production in some aspect of technical theatre or management. May be repeated once for credit. PREREQ: THEA 117 or PERM/INST.

**THEA 233 STAGE VOICE I (3-0-3)(F).** An exploration of basic vocal techniques. Students learn vocal anatomy, relaxation techniques and a series of exercises designed to improve breath control, resonance, energy, and vocal range. These skills will be applied to a variety of texts to achieve an appreciation of the flexibility of the voice and its ability to respond to language and imagery.

**THEA 234 STAGE VOICE II (3-0-3)(F).** Basics of articulation with work on the articulatory mechanisms and individual American English speech sounds through the International Phonetic Alphabet. Work on specific interpretive techniques of operative word identification and scoring. Speech skills will be applied to works of various poets and playwrights. PREREQ: THEA 233 or PERM/INST.

**THEA 260 DEVELOPMENT OF THEATRE II: MODERN FORMS (3-0-3)(S).** Explores shifts in theatrical practice and dramatic form from 1800-1960 in European and American theatres. PREREQ: THEA 230 or PERM/INST.

**THEA 287 CHILDREN'S THEATRE (3-0-3)(F).** An examination of the literature, theory, and history of theatre for children. Includes practical participation in an on-campus production of a play for children.

### Upper Division

**THEA 300 STAGE MANAGEMENT (2-1-3)(S)(Odd years).** Backstage operation, organization and management of theatrical productions. Emphasis on methods of communication and practical application of management techniques.

**THEA 301 DIRECTING I (3-0-3)(F).** An examination of the entire theatrical production process from the all-encompassing view of the stage director. Students will employ techniques, analysis, and practices explored in previous theatre arts courses in the directing of small scenes and in the study of

communicating with actors, designers, and playwrights. PREREQ: THEA 105, THEA 215, and THEA 260.

**THEA 302 DIRECTING II (3-0-3)(S).** Intensive exploration of advanced theory and techniques of stage directing. Includes the directing of scenes and one-act plays. Special problems and challenges in the directing process will be explored through a variety of exercises that challenge the director's ability to communicate a unified creative vision. PREREQ: THEA 301.

**THEA 310 SOUND FOR THE THEATRE (3-0-3)(S)(Even years).** Basic theory and techniques of sound design, equipment, recording, editing and reproduction of music and sound for theatrical productions. Practical applications are emphasized.

**THEA 311 ADVANCED ACTING (3-0-3)(F).** Designed to offer continual "on-feet" scene study with particular emphasis upon characterization, the interaction of characters, and the further exploration of circumstances, properties, and environments. Scene projects will be drawn from the modern drama. Class projects will be augmented by writing assignments and selected reading, including play and character analysis. Concurrent enrollment in THEA 234 required for theatre arts majors. PREREQ: THEA 215 and THEA 216, or PERM/INST.

**THEA 314 BALLET III (0-6-2)(F, S).** An advanced classical ballet technique class designed as a follow to THEA 213, Ballet II. The class is designed for the serious, advanced student and demands rigorous discipline. A comprehensive barre is followed by center work that covers adagio, pirouettes, petite allegro, gran allegro, etc. May be repeated for a maximum of eight credits. PREREQ: PERM/INST.

**THEA 316 ADVANCED POINTE TECHNIQUE CLASS (0-3-1)(F, S).** Pointe technique class for the advanced ballet dancer. Emphasis is on strengthening the feet and perfecting the ballet technique imperative for performing a classical repertoire. May be repeated for credit. PREREQ: THEA 314 or PERM/INST.

**THEA 318 METHODS OF TEACHING SECONDARY SCHOOL THEATRE (2-0-2)(S)(Odd years).** Study of methods of teaching acting, play structure, and theatre production at the secondary level. Twenty hours of directed observation required. PREREQ: THEA 105, THEA 216, THEA 212 or THEA 412.

**THEA 330 DEVELOPMENT OF THEATRE III: CONTEMPORARY FORMS (3-0-3)(F).** A study of theatre, drama, and performance theory since 1960. PREREQ: THEA 260 or PERM/INST.

**THEA 331 ADVANCED MAJOR PRODUCTION PARTICIPATION (0-3-1)(F, S).** Advanced participation in a major college production in some aspect of technical theatre, management, or design. May be repeated once for credit. PREREQ: THEA 118 or PERM/INST.

**THEA 335 STAGE VOICE III (3-0-3)(S).** Advanced dialects and "character" voices. Interpretative work on vocal reaction in scene studies, verse drama, and Shakespeare. Final overview and individual analysis. PREREQ: THEA 234 or PERM/INST.

**THEA 340 PLAYWRITING (3-0-3)(F).** Experience in creating a play script for the theatre, culminating in the construction and staged reading of an original one-act. May be repeated for credit.

**THEA 351 ELEMENTS OF SCENIC DESIGN (3-0-3)(S).** Major skills of beginning design. Included will be art techniques for the theatre, research in periods of scenic design, examination of designers' works, and practical experience in designing for various types of stages. PREREQ: THEA 117-118.

**THEA 352 COSTUME DESIGN (3-0-3)(S)(Odd years).** Skills of beginning costume design, including techniques for theatre, research in periods of costume design, examination of major costume designers' works, and practical experience in designing for all manner of productions. PREREQ: THEA 117-118.

**THEA 360 ADVANCED STUDIES IN THEATRE HISTORY (3-0-3)(S).** An in-depth exploration of a particular style, period, or issue in the history of theatre, with emphases on research methods and critical writing. PREREQ: THEA 330 or PERM/INST.

**THEA 362 STAGE LIGHTING DESIGN (3-0-3)(F).** A study of the theories, principles and practices of stage lighting including both aesthetic conception and practical application. Script analysis and lighting theory applied to actual designs for various stages and productions. PREREQ: THEA 117-118.

**THEA 390 DRAMATURGY (3-0-3)(S).** Explores the fundamental theories and practices of dramaturgy. Includes instruction in methods of theatre research and the creation of dramaturgical materials for theatrical productions. PREREQ: THEA 330 or PERM/INST.

**THEA 410 REPERTORY DANCE (0-3-2)(F, S).** Choreography class for the creatively inclined dance student. Designed to give the student an opportunity to work with a professional choreographer to learn methods of choreography, to rehearse, and to prepare for performance. Requirements involve choreographing a dance piece during the semester and perform in the faculty choreography. At least one year of dance training is recommended. May be repeated once at each level for credit. PREREQ: PERM/INST.

**THEA 412 MOVEMENT AND DANCE FOR THE PERFORMING ARTIST (3-0-3)(S).** Designed to increase a student's capacity and versatility for movement that may be required in all types of theatrical productions. A large amount of material is covered including the basics of: body awareness, strengthening and stretching, partnership, tap, musical theatre, fight choreography, turning, Elizabethan dance, fencing, polkas, waltzes, mazurkas, working with props, and movement studies reflecting character and situation.

**THEA 415 ACTING STYLES (3-0-3)(S)(Odd years).** This studio course is a concentrated study in acting styles; scene work from Shakespeare, Restoration, Moliere, and absurdists. May be repeated for credit. PREREQ: THEA 215, THEA 216 and THEA 311.

**THEA 440 ARTS MANAGEMENT (3-0-3)(F/S).** A comprehensive overview of the operational procedures required to run an educational or professional arts organization (theatre, dance, symphonic, visual, or multimedia). Includes non-profit formation, artistic programming, and producing.

**THEA 491 SENIOR PROJECTS (2-3-3)(F/S)(FF).** A culminating experience required of all Theatre Arts BA degree majors. Under faculty supervision students will propose, research, organize, plan, and execute a theatrical or portfolio presentation relative to their primary interests and emphasis of study or degree program. Students will be expected to work with a faculty mentor outside of the class in the development of the content of their project. The student will also work with the instructor of THEA 491 in the logistical development of the presentation itself. This project will be evaluated and graded by all appropriate faculty. THEA 491 serves as the Theatre Arts Finishing Foundations experience as a part of the University Foundations Program. PREREQ: Senior standing.

## University Foundations Program

Interactive Learning Center, Room 201

(208) 426-4057 (phone)

<https://www.boisestate.edu/academics-uf/> (website)

### Course Offerings

#### UF—University Foundations

##### Lower Division

#### UF 100 FOUNDATIONS OF INTELLECTUAL LIFE (3-0-3)(F, S, SU).

An introduction to critical inquiry through courses from the humanities, social sciences, arts, and science organized around central themes and questions in disciplines. Enhances student's ability to think critically and communicate clearly, logically, and persuasively. Weekly large sections with small seminar-like discussion sessions. Topics may vary each time the course is taught.

**UF 200 FOUNDATIONS OF ETHICS AND DIVERSITY (3-0-3)(F, S, SU).** Engages students in discussion of ethics and diversity in contemporary societal issues. Courses include writing assignments and an experiential learning component. Topics may vary each time the course is taught.

PREREQ: ENGL 102, UF 100, and sophomore status.

## Urban Studies and Community Development Program

School of Public Service

Environmental Research Building, Room 5135

(208) 426-2530 (phone)

<https://www.boisestate.edu/sps-urban/> (website)

*Program Lead and Associate Professor:* Amanda Ashley. *Faculty:* Saleh Ahmed, Jillian Moroney, Krista Paulsen, Jennifer Stevens. *Faculty Affiliates:* Leslie Durham, Michail Fragkias, Greg Hill, Monica Hubbard, Libby Lunstrum, Samia Islam, Joanne Klein, Stephanie Lenhart, Eric Lindquist, Scott Lowe, Jeff Lyons, erin mcllellan, Arthur Scarritt, Rebecca Som Castellano, Emily Wakild, Brian Wampler, Jessica Wells, Stephanie Witt.

### Degree Offered

- Bachelor of Arts in Urban Studies and Community Development
- Minor in Urban Studies and Community Development

### Program Statement

The Bachelor of Arts in Urban Studies and Community Development degree is an interdisciplinary program that provides students with deep knowledge in how cities, communities, and regions function, with a particular focus on the Intermountain West's booming urbanization. Using a problem based learning approach, the Urban Program gives students the opportunity to solve real world problems using the skills they learn in the classroom. Students develop these skills and expertise through a combination of classroom instruction, community-based participatory research, and experiential learning. The program is unique in that it has a strong, relevant core curriculum where students gain expertise in urban and regional economics, urban planning, public policy and program evaluation, core urban and regional concepts, infrastructure and community building, community development analysis, and public communication strategies. Students work with community development organizations and practitioners through our Internship program, service learning opportunities, and capstone projects. The Urban Studies and Community Development program graduates urban analysts who are prepared for diverse career paths including community development coordinators, economic development analysts, nonprofit program coordinators, urban demographers, urban and regional planners, city managers, and real estate project coordinators. It also provides students with a sound foundation for law school and graduate school in public policy, the social sciences, business, and the humanities. The program also offers a minor in Urban Studies and Community Development that champions a robust and rigorous set of courses that complements many other programs, minors, and certificates across the university.

### Degree Requirements

| Urban Studies and Community Development<br>Bachelor of Arts   |         |
|---|---------|
| Course Number and Title   | Credits |
| University Foundations requirements indicated in bold. See page 48 for details and lists of approved courses. |         |
| <b>UF 100</b> Foundations of Intellectual Life  | 3       |
| <b>UF 200</b> Foundations of Ethics and Diversity   | 3       |
| <b>FW ENGL 101</b> Writing and Rhetoric I   | 3       |
| <b>FW ENGL 102</b> Writing and Rhetoric II  | 3       |
| <b>FC</b> Foundations of Oral Communication   | 3       |
| <b>FM</b> Foundations of Mathematics course   | 3-4     |
| <b>FN ENVSTD 121</b> Introduction to Environmental Studies  | 3       |
| <b>FN</b> Foundations of Natural, Physical, & Applied Sciences course with a lab                              | 4       |
| <b>FA</b> Foundations of Arts course  | 3       |
| <b>FH</b> Foundations of Humanities course  | 3-4     |

|  |       |
|--|-------|
| FS ECON 202 Principles of Microeconomics   | 3     |
| FS SOC 101 Introduction to Sociology   | 3     |
| ECON 432 Urban Economics   | 3     |
| GEOG 360 Intro to Geographic Information Systems   | 3     |
| HIST 353 The Making of the Modern American City  | 3     |
| POLS 404 Urban Politics  | 3     |
| SPS 200 Problem Solving in Public Service  | 3     |
| SPS 240 Data in Public Service   | 3     |
| SPS 301 Engagement and Empathy in Public Service   | 3     |
| URBAN 200 Intro to Urban Studies & Community Development   | 3     |
| URBAN 201 Planning and the Environment   | 3     |
| URBAN 300 Urban Infrastructure   | 3     |
| FF URBAN 492 Capstone Seminar  | 3     |
| Choose one (1) from the following:<br>SPS 395 Public Service Studio<br>URBAN 489 Investigate Boise<br>URBAN 490 Urban Studies Field School<br>URBAN 493 Internship<br>VIP 400 Vertically Integrated Projects   | 3     |
| Choose three (3) credits from the following Urban Tools and Strategies courses:<br>SPS 495 Tools and Strategies in Public Service<br>URBAN 340 Public Participation and Civic Engagement<br>URBAN 341 Grant and Proposal Development<br>URBAN 342 Survey Design<br>URBAN 343 Public/Private Partnerships<br>URBAN 344 Public Finance and Budgeting<br>URBAN 345 Data Visualization<br>URBAN 346 Community Development Strategies<br>URBAN 347 Real Estate Development<br>URBAN 348 Historic Preservation<br>URBAN 349 Leadership in Community Development<br>URBAN 350 Greening Strategies for the City                                | 3     |
| Choose three (3) courses from the following of urban and community development electives:<br>Any 3 credits from upper division CJ courses<br>COMM 361, COMM 435, CONFLICT 390, CONFLICT 401,<br>*ECON 474, ENVSTD 430, ENVSTD 435, ENVSTD 460,<br>GLOBAL 302, GLOBAL 303, GLOBAL 304, HIST 320, HIST 349, HIST 387, MEDIA 301, POLS 409, *SOC 305, SOC 403, SOC 412, SOC 421, SOC 425, SOC 426, SOC 445, SOC 481, SPS 340, SPS 395, SPS 495, URBAN 301, URBAN 320, URBAN 360, URBAN 370, URBAN 375, URBAN 390, URBAN 410, URBAN 415, URBAN 420, URBAN 425, URBAN 489, URBAN 430, URBAN 490, URBAN 494, URBAN 497, URBAN 498, URBAN 499 | 9     |
| Upper-division electives to total 40 credits   | 4     |
| Electives to total 120 credits   | 29-31 |
| Total  | 120   |
| *These courses require prerequisites that are not required for the major.  |       |

|   |    |
|---|----|
| Choose two (2) of the following:<br>*ECON 432 Urban Economics<br>HIST 353 The Making of the Modern American City<br>POLS 404 Urban Politics<br>URBAN 300 Urban Infrastructure<br>*These courses have a prerequisite that is not for the minor, but is required prior to taking this course. | 6  |
| Total   | 18 |

**Course Offerings**

**URBAN—Urban Studies and Community Development**

**Lower Division**

**URBAN 101 CITIES AND SOCIETY (3-0-3)(F/S)(FS).** Survey the field of urban studies and community development and its application to the Intermountain West. Addresses questions: What is a city? How did cities develop? Why do people live in cities? What are the major issues facing contemporary cities nationally and globally? Classes involve presentations by a variety of public service professionals and field visits.

**URBAN 200 INTRODUCTION TO URBAN STUDIES AND COMMUNITY DEVELOPMENT (3-0-3)(F/S).** Examines the evolution of cities, the process of urbanization, and the demographic trends in contemporary urban communities. Explores concepts about urban growth/decline and how metropolitan location are integrated into a global society. Includes field experience/service learning requirement.

**URBAN 201 PLANNING AND THE ENVIRONMENT (3-0-3)(F/S).** An urban frontier rises from cheatgrass and sagebrush to test the limits of sustainable growth. Explores the planning, policy, and environmental dynamics that sprawl cities into the desert, and profoundly transform the American west.

**Upper Division**

**URBAN 300 URBAN INFRASTRUCTURE (3-0-3)(F/S).** Explores how cities and communities are built and revitalized. Introduces contemporary and historical policies and plans that shape the urban and regional environment. PREREQ: URBAN 200 or URBAN 201.

**URBAN 301 COMMUNITY DEVELOPMENT THEORY AND PRACTICE (3-0-3)(F/S).** Provides an overview of the theory and practice of community development, including an historical review. Examines contemporary issues, theories of social change, principles of inclusivity, equitable development, and capacity building, and provides examples of current initiatives. PREREQ: Sophomore standing.

**URBAN 320 UNDERSTANDING SUBURBS AND SMALL CITIES (3-0-3)(F/S).** Extends the theories, methods and conceptual tools of urban studies to better understand small cities and suburbs. It explores the social, cultural, and policy contexts through which these kinds of places developed, the challenges they face today, and innovative solutions to those challenges. Special attention is paid to small cities and suburbs in the western U.S., and the class may include an experiential- or service-learning component. PREREQ: Upper-division standing.

**URBAN 340 PUBLIC PARTICIPATION AND CIVIC ENGAGEMENT (2-0-2)(F/S/SU).** Introduces the theories and models of public participation and the strengths and weaknesses of different strategies as well as how to facilitate large groups, conduct stakeholder analysis, and navigate community conflict from NIMBYs and BOBOs. PREREQ: Upper-division standing.

**URBAN 341 GRANT AND PROPOSAL WRITING (1-0-1)(F/S/SU).** Examines the structure and content of proposals including the sources of funding, program evaluation, and foundation decision-making. Includes preparation of proposals and review by community experts. PREREQ: Upper-division standing.

**URBAN 342 SURVEY RESEARCH AND DESIGN (2-0-2)(F/S).** Introduces students to the basic skills and resources needed to design, conduct, and analyze surveys focused on contemporary issues in urban policy and community development. PREREQ: Upper-division standing.

| Urban Studies and Community Development Minor            |         |
|--|---------|
| Course Number and Title                                  | Credits |
| SPS 240 Data in Public Service                           | 3       |
| SPS 301 Engagement and Empathy in Public Service         | 3       |
| URBAN 200 Intro to Urban Studies & Community Development | 3       |
| URBAN 201 Planning and the Environment                   | 3       |

## URBAN STUDIES AND COMMUNITY DEVELOPMENT

**URBAN 343 PUBLIC/PRIVATE PARTNERSHIPS (2-0-2)(F/S).** Enables students to examine, critique, and apply best practices for formal community partnerships to improve a region's economic competitiveness. PREREQ: Upper-division standing.

**URBAN 344 PUBLIC FINANCE AND BUDGETING (1-0-1)(F/S/SU).** Focuses on governmental fiscal challenges in urban areas including theories of public budgeting, the revenue, expenditure, and debt structures of American western cities, types of budgets and budget formats, and typical components of a budget document. PREREQ: Upper-division standing.

**URBAN 345 DATA VISUALIZATION (1-0-1)(F/S/SU).** Introduces students to cutting-edge data visualization tools and techniques and their usage in improving organizational decision making and civic engagement processes. Students develop knowledge and skills in the reading and critiquing data presentation strategies and consider the ethics of visual images in the urban policy and community development realm. PREREQ: Upper-division standing.

**URBAN 346 COMMUNITY DEVELOPMENT STRATEGIES (2-0-2)(F/S).** Applies theories and methods of data collection and analysis to relevant projects involving community-based organizations in the community development field. PREREQ: Upper-division standing.

**URBAN 347 REAL ESTATE DEVELOPMENT (1-0-1)(F/S/SU).** Provides insight into the development process and the culture of the real estate industry. Students learn how to read a pro form, a market analysis, and land valuation assessments with a particular focus on equitable development projects in downtown and neighborhood development. PREREQ: Upper-division standing.

**URBAN 348 HISTORIC PRESERVATION (1-0-1)(F/S/SU).** Exposure to the different theories and conflicts of historic preservation and how they play out in contemporary settings. Examine and apply the methodology of documenting historic sites to local buildings and structures. PREREQ: Upper-division standing.

**URBAN 349 LEADERSHIP IN COMMUNITY DEVELOPMENT (1-0-1)(F/S/SU).** Examines nonprofit organizations as community institutions and the nature of leadership and management in the nonprofit sector. Considers fundraising, financial management, and governance through the respective roles of board, staff and volunteers. Classes involve case studies and presentations by community development professionals. PREREQ: Upper-division standing.

**URBAN 350 GREENING THE CITY (1-0-1)(F/S/SU).** Enables students to learn, apply, and evaluate different strategies that support urban sustainable development, including programs, plans, and policies adopted in different urban contexts. PREREQ: Upper-division standing.

**URBAN 360 THE CITY IN FILM (3-0-3)(F/S).** Explores contemporary films which depict life in urban America. Discusses multimedia presentations through the perspectives of urban studies, art, politics, architecture and other fields of study. PREREQ: Upper-division standing.

**URBAN 370 URBAN ECONOMIC DEVELOPMENT POLICY (3-0-3)(F/S).** Covers the concepts, strategies, and techniques of economic analysis, planning, and development at different urban scales, including the neighborhood, city, and region. Includes public policy cases and employs practical decision-making exercises. PREREQ: SPS 240.

**URBAN 375 WORKING LANDSCAPES IN THE AMERICAN WEST (3-0-3)(F/S).** Examines the evolution of natural and built landscapes from agricultural and mining to tourism and technology sectors. Considers social and ecological connections around cities and towns and their economic importance. Topics include short term rentals, sprawl, workforce housing, cultural boundaries, the brain drain, and more. PREREQ: Upper-division standing.

**URBAN 390 URBAN INEQUALITY (3-0-3)(F/S).** Explores the role of urbanization and density in creating, maintaining, or diminishing various forms of inequality. Exposes students to theoretical debates and engages students in policy discussions and analyses. Focuses primarily on the American context but with an eye towards issues of equality globally. PREREQ: Upper-division standing.

**URBAN 410 SUSTAINABLE CITIES (3-0-3)(F/S).** Allows students to explore different dimensions of urban sustainability through real examples, imagined futures, and tangible plans for moving urban areas towards sustainable utopias. PREREQ: Upper-division standing.

**URBAN 415 URBAN NATURE (3-0-3)(F/S).** Examines the role that nature plays in the social, economic, and political systems of cities. Explore the past and future of urban environmental challenges, the evolving ways that humans perceive them, and the implementation of innovative solutions that are inspired by nature. PREREQ: Upper-division standing.

**URBAN 420 PUBLIC SPACE AND PLACEMAKING (3-0-3)(F/S/SU).** Exposes students to arts economic and community development and how these movements reflect the political and cultural of values of place. Students gain insight into the practical application of theory. PREREQ: Upper-division standing.

**URBAN 425 PRESERVATION IN THE URBAN/RURAL DIVIDE (3-0-3)(F/S).** Considers different types, approaches, concepts and debates over preservation through a case study approach. Examines perspectives from private, public, and community lenses. Topics include historic preservation, public lands conservation, farmland preservation, landscape fragmentation, species protection, waterfront adaptive reuse, and mass privatization of land. PREREQ: Upper-division standing.

**URBAN 430 URBAN DESIGN AND THE CITY BEAUTIFUL (3-0-3)(F/S/SU).** Explores the evolution of urban design and civic architecture in cities. Analyzes different theories, actors, strategies, and motivations for "beautifying" communities. PREREQ: Upper-division standing.

**URBAN 489 INVESTIGATE BOISE (3-0-3)(F/S/SU).** Hands-on exploration of challenges and potential solutions facing the Intermountain West through an interdisciplinary immersive experience. PREREQ: Upper-division standing.

**URBAN 490 URBAN STUDIES FIELD SCHOOL (1-4 credits)(SU).** On-site field training in the techniques of applied research in cities across the American West. Focus will be placed on data collection, data analysis, and communication of data to public audiences. PREREQ: SPS 240, GEOG 360, and PERM/INST.

**URBAN 492 CAPSTONE SEMINAR (3-0-3)(F/S/SU)(FF).** Applies theory and sharpens skills while addressing a real-world problem. Students identify a problem, gather data, consult with community members and experts, recommend solutions, and communicate their findings to stakeholders. PREREQ: SPS 240 and senior standing in urban studies.

**URBAN 493 INTERNSHIP (2-3 credits)(F/S/SU).** Students work with industries, organizations and agencies that have an interest in urban affairs and community development to deepen their knowledge, increase their professional skills, and reflect critically on these experiences. Students must complete a minimum of 50 hours of work per credit of internship. PREREQ: Upper-division standing and PERM/INST.

**URBAN 496 INDEPENDENT STUDY (3-0-3)(F/S/SU).** Students who wish to design and complete individual study projects geared to their particular interests may register for this option with approval by an appropriate faculty. Applied research projects are strongly encouraged. PREREQ: Upper-division standing and PERM/INST.

**URBAN 498 SEMINAR (1-3 credits)(F/S/SU).** Selected urban studies and community development topics under faculty direction. PREREQ: Upper-division standing.

**URBAN 499 SEMINAR (1-3 credits)(F/S/SU).** Selected urban studies and community development topics under faculty direction. PREREQ: Upper-division standing.

# User Experience Research Program

College of Innovation and Design

Albertsons Library, Room 201G

(208) 426-2975 (phone)

UX@boisestate.edu (email)

<https://boisestate.edu/user-research> (website)

Program Director: John P. Ziker. Faculty: Kendall House.

## Programs Offered

- Minor in User Experience Research
- Certificate in User Experience Research
- Certificate in User Research (UX) Professional

## Program Statement

User experience (UX) researchers help designers understand the needs of existing and potential users of their products. The UX program at Boise State is grounded in anthropological methods developed to understand unfamiliar human beliefs and behaviors, and convey those understandings to outsiders. It centers on a toolkit of techniques known as ethnography, centering on field visits, contextual interviews, and direct observations. The coursework emphasizes experiential learning of core methods via hands-on, practical exercises, adapted for business contexts. Students learn how those methods inform design thinking and are communicated to designers. Students develop a social media profile, expand their professional network, and evaluate their skill-set in relation to current job postings in user research. In the capstone project students demonstrate their mastery of the skill-set by negotiating, planning, and executing a user research project with a stakeholder organization.

## Certificate Requirements

The minor is intended for degree seeking undergraduate students who want to expand on the skills gained in the User Experience Research Certificate by completing complementary coursework.

| User Experience Research Minor   |           |
|--|-----------|
| Course Number and Title  | Credits   |
| UX 360 Working in the UX Space   | 1         |
| UX 361 Ethical User Research   | 1         |
| UX 362 Asking and Listening  | 1         |
| UX 363 Contextual Inquiry  | 1         |
| UX 364 Design Thinking for Better UX   | 1         |
| UX 365 Go Deeper with Theory   | 1         |
| UX 366 Communicating User Research   | 1         |
| UX 367 Just Enough Research  | 1         |
| UX 368 Planning a Productive Capstone  | 1         |
| UX 469 User Research Capstone  | 3         |
| Choose for a total of 6 credits:<br>COID 332 Analytics for Design<br>ENGL 408 Writing for Nonprofits & Software Documentation<br>ENGL 416 User-Centered Design Principles<br>MEDIA 301 Multimedia Storytelling<br>Other User Experience Research courses with advisor approval | 6         |
| <b>Total</b>   | <b>18</b> |

The 12-credit certificate intended for degree seeking undergraduate students desiring to enhance or augment their major.

| User Experience Research Certificate  |           |
|---------------------------------------|-----------|
| Course Number and Title               | Credits   |
| UX 360 Working in the UX Space        | 1         |
| UX 361 Ethical User Research          | 1         |
| UX 362 Asking and Listening           | 1         |
| UX 363 Contextual Inquiry             | 1         |
| UX 364 Design Thinking for Better UX  | 1         |
| UX 365 Go Deeper with Theory          | 1         |
| UX 366 Communicating User Research    | 1         |
| UX 367 Just Enough Research           | 1         |
| UX 368 Planning a Productive Capstone | 1         |
| UX 469 User Research Capstone         | 3         |
| <b>Total</b>                          | <b>12</b> |

The 12-credit, fully online certificate intended for non-degree seeking working professionals who wish to develop or enhance their UX skill set.

| User Research (UX) Professional Certificate |           |
|---|-----------|
| Course Number and Title                     | Credits   |
| UX-PRO 360 Working in the UX Space          | 1         |
| UX-PRO 361 Ethical User Research            | 1         |
| UX-PRO 362 Asking and Listening             | 1         |
| UX-PRO 363 Contextual Inquiry               | 1         |
| UX-PRO 364 Design Thinking for Better UX    | 1         |
| UX-PRO 365 Go Deeper with Theory            | 1         |
| UX-PRO 366 Communicating User Research      | 1         |
| UX-PRO 367 Just Enough Research             | 1         |
| UX-PRO 368 Planning a Productive Capstone   | 1         |
| UX-PRO 469 User Research Capstone           | 3         |
| <b>Total</b>                                | <b>12</b> |

## Course Offerings

### UX—User Experience

### UX-PRO—User Research Professional

#### Upper Division

#### UX 360 (UX-PRO 360) WORKING IN THE UX SPACE (1-0-1)(F, S, SU).

Diverse applications of qualitative user research in public and private sectors. Relationship between usability testing, design thinking, and ethnographic inquiry. May be taken for credit as UX or UX-PRO, but not both. PREREQ: upper-division standing. PREREQ for UX-PRO: Admission to User Research (UX) Professional Certificate or admission to a fully online undergraduate degree program.

#### UX 361 (UX-PRO 361) ETHICAL USER RESEARCH (1-0-1)(F, S, SU).

Best user research practices to protect researchers, participants, and clients complete training in human subjects research. May be taken for credit as UX or UX-PRO, but not both. PREREQ: upper-division standing. PREREQ for UX-PRO: Admission to User Research (UX) Professional Certificate or admission to a fully online undergraduate degree program.

#### UX 362 (UX-PRO 362) ASKING AND LISTENING (1-0-1)(F, S, SU).

Planning, conducting, and reporting the results of in-depth conversations and semi-structured interviews, enriching transcripts, and storytelling. May be taken for credit as UX or UX-PRO, but not both. PREREQ: upper-division standing.

PREREQ for UX-PRO: Admission to User Research (UX) Professional Certificate or admission to a fully online undergraduate degree program.

**UX 363 (UX-PRO 363) CONTEXTUAL INQUIRY (1-0-1)(F, S, SU).**

Practice ethical observations using direct, remote, and participatory observational techniques. Discover the importance of context and the difference between what people say and what they do. May be taken for credit as UX or UX-PRO, but not both. PREREQ: upper-division standing.

PREREQ for UX-PRO: Admission to User Research (UX) Professional Certificate or admission to a fully online undergraduate degree program.

**UX 364 (UX-PRO 364) DESIGN THINKING FOR BETTER UX (1-0-1)(F, S, SU).**

Introduction to and applications of core design concepts, including empathy and journey map concepts. Collaborate to create visualizations that translate user research into impactful implications for design. May be taken for credit as UX or UX-PRO, but not both. PREREQ: upper-division standing.

PREREQ for UX-PRO: Admission to User Research (UX) Professional Certificate or admission to a fully online undergraduate degree program.

**UX 365 (UX-PRO 365) GO DEEPER WITH THEORY (1-0-1)(F, S, SU).**

Qualitative user research has deep roots in the social sciences, especially anthropology. Increase your knowledge of the conceptual foundations of user research to reach beyond superficial findings and deliver transformative insights. May be taken for credit as UX or UX-PRO, but not both. PREREQ: upper-division standing. PREREQ for UX-PRO: Admission to User Research (UX) Professional Certificate or admission to a fully online undergraduate degree program.

**UX 366 (UX-PRO 366) COMMUNICATING USER RESEARCH (1-0-1)(F, S, SU).**

Utilizing the tools of user design, from field notes to storytelling and visualization techniques to communicate insights of research. Universal accessibility, inclusive design, and how to avoid excluding portions of your audience. May be taken for credit as UX or UX-PRO, but not both. PREREQ: upper-division standing. PREREQ for UX-PRO: Admission to User Research (UX) Professional Certificate or admission to a fully online undergraduate degree program.

**UX 367 (UX-PRO 367) JUST ENOUGH RESEARCH (1-0-1)(F, S, SU).**

Identifying appropriate methods for diverse problems, applying multiple methods to develop more robust triangulated data, and synthesizing complex data to arrive at compelling insights. May be taken for credit as UX or UX-PRO, but not both. PREREQ: upper-division standing. PREREQ for UX-PRO: Admission to User Research (UX) Professional Certificate or admission to a fully online undergraduate degree program.

**UX 368 (UX-PRO 368) PLANNING A PRODUCTIVE CAPSTONE (1-0-1)(F, S, SU).**

Pre-capstone project. Identify potential stakeholders, negotiate a design brief, and prepare a scope of work proposal. Identify possible sampling and recruitment strategies, explore appropriate methods, and plan a schedule to gather and analyze data and report your results in a timely manner. May be taken for credit as UX or UX-PRO, but not both. PREREQ: upper-division standing and declared in the User Experience Research certificate or minor. PREREQ for UX-PRO: Admission to User Research (UX) Professional Certificate or admission to a fully online undergraduate degree program.

**UX 469 (UX-PRO 469) USER RESEARCH CAPSTONE (3-0-3)(F, S, SU).**

Propose, negotiate, and conduct an independent UX research project, or assist on a faculty project. Participate across the full research process. Define objectives, select methods, manage the collection and analysis of appropriate data, and deliver impactful insights that your stakeholders value. May be taken for credit as UX or UX-PRO, but not both. PREREQ: upper-division standing, UX/UX-PRO 360, UX/UX-PRO 361, UX/UX-PRO 362, UX/UX-PRO 363, UX/UX-PRO 364, UX/UX-PRO 365, UX/UX-PRO 366, UX/UX-PRO 367, and UX/UX-PRO 368. PREREQ for UX-PRO: Admission to User Research (UX) Professional Certificate or admission to a fully online undergraduate degree program.

## Vertically Integrated Projects (VIP)

*College of Innovation and Design*

Albertsons Library Floor 2  
(208) 426-2975 (phone)  
cid@boisestate.edu (email)  
<https://boisestate.edu/vip> (website)

*Associate Dean:* Shawn Benner. *Director:* Donna Llewellyn. *Coordinator:* Jillana Finnegan. *Project Faculty:* Kelly Arispe, Liljana Babinkostova, John Bieter, Jodi Brandt, Jim Browning, Trevor Caughlin, Ken Cornell, Steve Cutchin, Marie-Anne de Graaf, Matthew Hansen, Eric Hayden, Jill Heney, Vicken Hillis, Tiffany Hitesman, Kelly Hopping, Kendall House, Amber Hoye, Eric Jankowski, Mark Lung, Mahmood Mamivand, Chris McClure, Julia Oxford, Tara Penry, Don Plumlee, Uwe Reischl, Marion Scheepers, Sarah Schulwitz, Edoardo Serra, Jennifer Smith, Eun Hye Son, Caile Spear, Steve Swanson, Amy Vecchione, Brian Wiley.

### Program Statement

A Vertically Integrated Project (VIP) is an opportunity for a student to work alongside a faculty member pursuing an ambitious, multi-semester project that is tied to the faculty's scholarship. Undergraduate and graduate students from any major are invited to earn academic credit for their participation in hands on research, design, and discovery related to the project. Students are encouraged to participate for multiple semesters with the ability to register for 1 or 2 credits per semester at the 200, 300, 400, and 500 level that may be repeated for up to 6 semesters. VIP opportunities are 1) **diverse**—welcoming all people and all perspectives, 2) **multidisciplinary**—drawing students and faculty from all disciplines, 3) **vertically integrated**—maintaining a mix of freshman through graduate students each semester, and 4) **long-term**—supporting student and faculty participation for the duration of their time at Boise State.

**Please note:** Enrollment in a VIP course is at the discretion of the project professor(s). For more information about the enrollment process and ongoing projects, visit <https://www.boisestate.edu/vip/>.

### Course Offerings

#### VIP—Vertically Integrated Projects

For details about the projects, see <https://www.boisestate.edu/vip/>.

**VIP 200 VERTICALLY INTEGRATED PROJECTS (1-2 credits)(F, S, SU).**

Orientation to team-based research projects coached by faculty and graduate students. Team members contribute to the project's success by exploring different roles on large multidisciplinary design/discovery teams. Skills learned include a basic level of professional (e.g., communication, project management, time management) and technical skills (e.g., lab skills, scientific method application). Topics considered in the courses are those necessary for the success of the VIP project. Course and topic(s) may be repeated up to 4 semesters for credit. PREREQ: PERM/INST.

**VIP 300 VERTICALLY INTEGRATED PROJECTS (1-2 credits)(F, S, SU).**

Students are coached by faculty and graduate students on team-based, research projects. Students collaborate effectively on large multidisciplinary design/discovery teams. Skills learned include intermediate level professional (e.g., communication, project management, time management) and technical skills (e.g., lab skills, scientific method application). Topics considered in the courses are those necessary for the success of the VIP project. Course and topic may be repeated up to 6 semesters for credit. PREREQ: Upper-division standing and PERM/INST.

**VIP 400 VERTICALLY INTEGRATED PROJECTS (1-2 credits)(F, S, SU).**

Students engage in project work with faculty and graduate students on multidisciplinary, team-based, research projects. Participants demonstrate advanced research skills. Topics considered in the courses are those necessary for the success of the VIP project. Course and topic may be repeated up to 6 semesters for credit. PREREQ: Upper-division standing and PERM/INST.



# Department of World Languages

*College of Arts and Sciences*

Library, Room 140-B  
(208) 426-3956 (phone)  
dianacarrillo@boisestate.edu (email)  
<https://www.boisestate.edu/worldlang/> (website)

*Chair and Professor:* Jason Herbeck. *Professors:* Boucher, Devereux Herbeck, Garza, Henderson, Kane, Lete. *Associate Professors:* Arispe, Norman. *Assistant Professors:* Gandarias Beldarrain, Viera. *Spanish Language Coordinator:* Cornwall. *American Sign Language Coordinator:* Snow. *Lecturers:* Ehara, Gómez, Saget, Sibrian, Ugalde, Wei.

## Degrees and Certificates Offered

- Bachelor of Arts in:
  - French
  - French, Secondary Education
  - German
  - German, Secondary Education
  - Spanish
  - Spanish, Secondary Education
- Minor in:
  - American Sign Language
  - Arabic Studies
  - Basque Studies
  - Chinese Studies
  - French
  - French for Business
  - German
  - German for Business
  - Iberian Studies
  - Japanese Studies
  - Korean Studies
  - Latin
  - Latin American and Latino/a Studies
  - Romance Languages
  - Spanish
  - Spanish for Business
  - Spanish Interpretation
- Certificate in:
  - American Sign Language, Elementary or Intermediate
  - Arabic, Elementary or Intermediate
  - Basque, Elementary or Intermediate
  - Basque Cultural Studies
  - French, Elementary or Intermediate
  - German, Elementary or Intermediate
  - Japanese, Elementary or Intermediate
  - Korean, Elementary or Intermediate
  - Latin, Elementary or Intermediate
  - Latinx Community Engagement
  - Mandarin Chinese, Elementary or Intermediate
  - Portuguese, Elementary or Intermediate
  - Spanish, Elementary or Intermediate

## Department Statement

The study of languages gives students a sound foundation in the liberal arts. Graduates with language backgrounds possess a resource for continuing intellectual growth and personal fulfillment, a passport for moving easily within the world community and its diverse cultures, and a practical tool for earning a living.

Programs in the Department of World Languages concentrate on the acquisition of language and a knowledge of the cultures that the language expresses. The department offers baccalaureate degrees in French, German, and Spanish, minors in American Sign Language, Arabic, Basque, Chinese, French, German, Iberian Studies, Japanese, Korean, Latin, Latin American and Latino/a Studies, Romance Languages and Spanish as well as language instruction in Bosnian and Portuguese.

Special encouragement is given to students who wish to pursue a minor emphasis or a second major in a language to complement a major taken outside the department. With the changing population of the United States and the growing interdependence of the international community, career opportunities are expanding rapidly for graduates who know a second language. Second language competency has become highly desirable in teaching, government, social services, diplomacy, law, medicine, mass communications, science, technology, international trade, and marketing. The programs in world languages have the latitude and flexibility to fit nearly any career goal.

The Department of World Languages encourages students to spend time in a region whose language they are studying. Programs available through Global Learning Opportunities give students a chance to master a language and learn more about culture and customs, often while studying at foreign universities and living with local families.

## Placement Exams

If you have any knowledge of French, German, or Spanish, you must take a placement exam. Placement exams are offered in the Simplot/Micron Academic Success Hub (SMASH) Room 213A for a small fee. Register through Register Blast: <https://www.registerblast.com/boisestate/Exam/List>. Please call (208) 426-2762, or email [testingservices@boisestate.edu](mailto:testingservices@boisestate.edu) for more information. Placement exams do not confer credit but rather are meant to help determine at what level of language instruction a student should be placed.

For placement in Arabic, ASL, Basque, Chinese, Japanese, Korean or Latin, arrange for a free Placement Interview by contacting the Department of World Languages at (208) 426-3956.

## World Languages Resource Center

Most 100-, 200-, and 300-level language classes include a laboratory fee to support an extensive set of enrichment activities including conversation labs with native speakers. Located in the Department of World Languages in the Library, Room L-144, students have access to state-of-the-art equipment in the World Languages Resource Center (WLRC). Whether taking a study break in between classes or completing a research project, the WLRC is dedicated to providing tools and services to language students. A computer lab provides access to authentic resources such as online journals and newspapers from around the world, specialized software and recording tools. The WLRC also hosts a collection of more than 1,200 films for student checkout, language books and games, along with mobile tablets for use in and out of the classroom.

## Credit for Prior Learning

**Credit for Prerequisite Not Taken:** Students who have successfully completed a language course beyond the 101-level with a grade of C- or higher may petition to receive credit for all courses that are prerequisites to that course.

**Challenge Exams:** Departmentally prepared challenge exams are available for American Sign Language, Arabic, Basque, French, German, Japanese, Korean, Latin, Mandarin Chinese, and Spanish. External challenge exams are available for approximately 60 other languages.

## Course Grades and Language Certificates

In any language course, students must earn a grade of C- or higher to satisfy the prerequisite for subsequent courses or to be counted toward a language minor or major. Certificates will only be awarded following completion of an associate or baccalaureate degree. Students who have already completed an associate or baccalaureate degree at Boise State or another institution and wish to return to pursue a stand-alone language certificate may do so.

## WORLD LANGUAGES

### Secondary Education

The French, German, or Spanish Secondary Education program combines content knowledge, theories of learning and human development, study of curriculum, and methodology to help students develop the knowledge, skills and dispositions essential for success in secondary school teaching. The program is grounded in the conceptual framework of the reflective practitioner. Reflective practitioners adjust their teaching approaches and the learning environment to the needs and backgrounds of their students. Candidates who complete this program have demonstrated evidence of meeting the Idaho Beginning Teacher Standards and are eligible for recommendation for state certification.

Students wishing to pursue this degree must meet the requirements and standards for admission to teacher education, which are described fully under the Department of Curriculum, Instruction, and Foundational Studies or at <https://www.boisestate.edu/education/>. Students must apply to the Teacher Education program a minimum of four semesters before expected graduation. Upon acceptance into the program all students must maintain a 3.0 GPA in French, German, or Spanish courses. Students must meet all knowledge, skill, and disposition requirements to remain in the program, (for more information on these requirements see <https://www.boisestate.edu/education-teachereid/>) and must successfully complete Praxis II examination in all endorsement areas as well as obtain a minimum rating of Intermediate-High on an oral proficiency exam before beginning student teaching (Block 3).

### Degree Requirements

- To begin the program for the BA in French, the student must demonstrate competency in French equivalent to the completion of elementary (FREN 101 and FREN 102) and intermediate (FREN 201, 202, 203) French — 16 credit hours. Proficiency must be demonstrated by coursework or placement/challenge procedures.
- The program must be developed in consultation with a major advisor in French.
- The student must demonstrate advanced levels of competency in French by means of an oral proficiency interview administered as part of the senior seminar (FREN 498).
- Secondary Education majors should also consult with the Department of Curriculum, Instruction, and Foundational Studies catalog listing for current education requirements.

| French Bachelor of Arts   |         |
|---|---------|
| Course Number and Title   | Credits |
| University Foundations requirements indicated in bold. See page 48 for details and lists of approved courses. |         |
| <b>UF 100</b> Foundations of Intellectual Life  | 3       |
| <b>UF 200</b> Foundations of Ethics and Diversity   | 3       |
| <b>FW ENGL 101</b> Writing and Rhetoric I   | 3       |
| <b>FW ENGL 102</b> Writing and Rhetoric II  | 3       |
| <b>FC</b> Foundations of Oral Communication   | 3       |
| <b>FM</b> Foundations of Mathematics course   | 3-4     |
| <b>FN</b> Foundations of Natural, Physical, & Applied Sciences course with lab                                | 4       |
| <b>FN</b> Foundations of Natural, Physical, & Applied Sciences course in a second field                       | 3-4     |
| <b>FA</b> Foundations of Arts course  | 3       |
| <b>FH</b> FREN 102 Elementary French II   | 4       |
| <b>FS</b> Foundations of Social Sciences course   | 3       |
| <b>FS</b> Foundations of Social Sciences course in a second field   | 3       |
| FREN 101 Elementary French I  | 4       |
| FREN 201-202 Intermediate French I and II   | 6       |

|  |       |
|--|-------|
| FREN 203 Intermediate French Conversation                        | 2     |
| FREN 303 Advanced French Conversation & Comp                     | 3     |
| FREN 304 Intro to French and Francophone Literatures             | 3     |
| FREN 376 French Culture and Civilization                         | 3     |
| FREN 404 Survey of French Literature                             | 3     |
| FREN 412 Advanced French Grammar & Pronunciation                 | 3     |
| FREN 475 France Today or<br>FREN 485 The Francophone World Today | 3     |
| <b>FF</b> FREN 498 Senior Seminar                                | 3     |
| WORLD 300 Career Exploration & Portfolio Development             | 1     |
| Upper-division French electives                                  | 9     |
| Upper-division electives to total 40 credits                     | 9     |
| Electives to total 120 credits                                   | 28-30 |
| Total  | 120   |

| French, Secondary Education Bachelor of Arts  |         |
|---|---------|
| Course Number and Title   | Credits |
| University Foundations requirements indicated in bold. See page 48 for details and lists of approved courses.   |         |
| <b>UF 100</b> Foundations of Intellectual Life  | 3       |
| <b>UF 200</b> Foundations of Ethics and Diversity   | 3       |
| <b>FW ENGL 101</b> Writing and Rhetoric I   | 3       |
| <b>FW ENGL 102</b> Writing and Rhetoric II  | 3       |
| <b>FC</b> Foundations of Oral Communication   | 3       |
| <b>FM</b> Foundations of Mathematics course   | 3-4     |
| <b>FN</b> Foundations of Natural, Physical, & Applied Sciences course with lab  | 4       |
| <b>FN</b> Foundations of Natural, Physical, & Applied Sciences course in a second field   | 3-4     |
| <b>FA</b> Foundations of Arts course  | 3       |
| <b>FH</b> FREN 102 Elementary French II   | 4       |
| <b>FS</b> ED-CIFS 201 Education, Schooling, and Society   | 3       |
| <b>FS</b> Foundations of Social Sciences course in a second field   | 3       |
| EDTECH 202 Teaching and Learning in a Digital Age   | 3       |
| ED-CIFS 301* Teaching Experience I  | 2       |
| ED-CIFS 302* Learning and Instruction   | 4       |
| ED-CIFS 401* Professional Year — Teaching Experience II   | 3       |
| ED-ESP 350* Teaching Students with Exceptional Need at the Secondary Level  | 3       |
| Teaching Experience III/IV*   | 14      |
| *You must apply for admission to secondary teacher education to enroll in these upper-division education courses. Completion of all requirements for graduation with a secondary education option may require more than 120 credit hours. See Department of Curriculum, Instruction, and Foundational Studies for more information. |         |
| FREN 101 Elementary French I  | 4       |
| FREN 201-202 Intermediate French I and II   | 6       |
| FREN 203 Intermediate French Conversation   | 2       |
| FREN 303 Advanced French Conversation & Composition   | 3       |
| FREN 304 Intro to French and Francophone Literatures  | 3       |
| FREN 376 French Culture and Civilization  | 3       |
| FREN 404 Survey of French Literature  | 3       |

|   |         |
|---|---------|
| FREN 412 Advanced French Grammar & Pronunciation                                    | 3       |
| FREN 475 France Today or<br>FREN 485 The Francophone World Today                    | 3       |
| FF FREN 498 Senior Seminar  | 3       |
| LING 305 Introduction to Language Studies   | 3       |
| WORLD 300 Career Exploration & Portfolio Development                                | 1       |
| WORLD 410 Theories & Methods for Teaching a Second Language in Secondary Classrooms | 3       |
| WORLD 420 Understanding & Assessing Literacy for Second Language Learners           | 3       |
| Upper-division French electives   | 9       |
| Electives to total 120 credits  | 0-1     |
| Total   | 120-121 |

1. To begin the program for the BA in German, the student must demonstrate competency in German equivalent to the completion of elementary (GERM 101, 102) and intermediate (GERM 201, 202, 203) German courses — 16 credit hours. Proficiency must be demonstrated by coursework or placement/challenge procedures.
2. The program must be developed in consultation with a major advisor in German.
3. The student must demonstrate advanced levels of competency in German by means of an oral proficiency interview administered as part of the senior seminar (GERM 498).
4. Secondary Education majors should also consult with the Department of Curriculum, Instruction, and Foundational Studies catalog listing for current education requirements.

| German Bachelor of Arts   |                |
|---|----------------|
| <i>Course Number and Title</i>  | <i>Credits</i> |
| University Foundations requirements indicated in bold. See page 48 for details and lists of approved courses. |                |
| <b>UF 100</b> Foundations of Intellectual Life  | 3              |
| <b>UF 200</b> Foundations of Ethics and Diversity   | 3              |
| <b>FW ENGL 101</b> Writing and Rhetoric I   | 3              |
| <b>FW ENGL 102</b> Writing and Rhetoric II  | 3              |
| <b>FC</b> Foundations of Oral Communication   | 3              |
| <b>FM</b> Foundations of Mathematics course   | 3-4            |
| <b>FN</b> Foundations of Natural, Physical, & Applied Sciences course with lab                                | 4              |
| <b>FN</b> Foundations of Natural, Physical, & Applied Sciences course in a second field                       | 3-4            |
| <b>FA</b> Foundations of Arts course  | 3              |
| <b>FH</b> GERM 102 Elementary German II   | 4              |
| <b>FS</b> Foundations of Social Sciences course   | 3              |
| <b>FS</b> Foundations of Social Sciences course in a second field   | 3              |
| GERM 101 Elementary German I  | 4              |
| GERM 201-202 Intermediate German I and II   | 6              |
| GERM 203 Intermediate German Conversation   | 2              |
| GERM 303 Advanced German Conversation and Composition   | 3              |
| GERM 304 Introduction to German Literature  | 3              |
| GERM 377 German Culture and Civilization  | 3              |
| GERM 404 Survey of German Literature I  | 3              |
| GERM 405 Survey of German Literature II   | 3              |
| GERM 475 The German-Speaking World Today  | 3              |

|  |       |
|--|-------|
| <b>FF GERM 498</b> Senior Seminar                    | 3     |
| WORLD 300 Career Exploration & Portfolio Development | 1     |
| Upper-division German courses                        | 9     |
| Upper-division electives to total 40 credits         | 9     |
| Electives to total 120 credits                       | 28-30 |
| Total  | 120   |

| German, Secondary Education Bachelor of Arts  |                |
|---|----------------|
| <i>Course Number and Title</i>  | <i>Credits</i> |
| University Foundations requirements indicated in bold. See page 48 for details and lists of approved courses.   |                |
| <b>UF 100</b> Foundations of Intellectual Life  | 3              |
| <b>UF 200</b> Foundations of Ethics and Diversity   | 3              |
| <b>FW ENGL 101</b> Writing and Rhetoric I   | 3              |
| <b>FW ENGL 102</b> Writing and Rhetoric II  | 3              |
| <b>FC</b> Foundations of Oral Communication   | 3              |
| <b>FM</b> Foundations of Mathematics course   | 3-4            |
| <b>FN</b> Foundations of Natural, Physical, & Applied Sciences course with lab  | 4              |
| <b>FN</b> Foundations of Natural, Physical, & Applied Sciences course in a second field   | 3-4            |
| <b>FA</b> Foundations of Arts course  | 3              |
| <b>FH</b> GERM 102 Elementary German II   | 4              |
| <b>FS</b> ED-CIFS 201 Education, Schooling, and Society   | 3              |
| <b>FS</b> Foundations of Social Sciences course in a second field   | 3              |
| EDTECH 202 Teaching and Learning in a Digital Age   | 3              |
| ED-CIFS 301* Teaching Experience I  | 2              |
| ED-CIFS 302* Learning and Instruction   | 4              |
| ED-CIFS 401* Professional Year — Teaching Experience II   | 3              |
| ED-ESP 350* Teaching Students with Exceptional Need at the Secondary Level  | 3              |
| Teaching Experience III/IV*   | 14             |
| *You must apply for admission to secondary teacher education to enroll in these upper-division education courses. Completion of all requirements for graduation with a secondary education option may require more than 120 credit hours. See Department of Curriculum, Instruction, and Foundational Studies for more information. |                |
| GERM 101 Elementary German I  | 4              |
| GERM 201-202 Intermediate German I and II   | 6              |
| GERM 203 Intermediate German Conversation   | 2              |
| GERM 303 Advanced German Conversation and Composition   | 3              |
| GERM 304 Introduction to German Literature  | 3              |
| GERM 377 German Culture and Civilization  | 3              |
| GERM 404 Survey of German Literature I  | 3              |
| GERM 405 Survey of German Literature II   | 3              |
| GERM 475 The German-Speaking World Today  | 3              |
| <b>FF GERM 498</b> Senior Seminar   | 3              |
| LING 305 Introduction to Language Studies   | 3              |
| WORLD 300 Career Exploration & Portfolio Development  | 1              |

## WORLD LANGUAGES

|   |                |
|---|----------------|
| WORLD 410 Theories & Methods for Teaching a Second Language in Secondary Classrooms | 3              |
| WORLD 420 Understanding & Assessing Literacy for Second Language Learners           | 3              |
| Upper-division German courses   | 9              |
| Electives to total 120 credits  | 0-1            |
| <b>Total</b>  | <b>120-121</b> |

1. To begin the program for the BA in Spanish, the student must demonstrate competency in Spanish equivalent to the completion of elementary (SPAN 101 and 102) and intermediate (SPAN 201, 202, or SPAN 201, 203) Spanish courses—16 credit hours. Proficiency must be demonstrated by coursework or placement/challenge procedures.
2. The program must be developed in consultation with a major advisor in Spanish.
3. The candidate must demonstrate advanced levels of language proficiency by means of an oral proficiency interview administered as part of the senior seminar (SPAN 498).
4. Secondary Education majors should also consult with the Department of Curriculum, Instruction, and Foundational Studies catalog listing for current education requirements.

| Spanish Bachelor of Arts   |                |
|--|----------------|
| <i>Course Number and Title</i>   | <i>Credits</i> |
| University Foundations requirements indicated in bold. See page 48 for details and lists of approved courses.  |                |
| <b>UF 100</b> Foundations of Intellectual Life   | 3              |
| <b>UF 200</b> Foundations of Ethics and Diversity  | 3              |
| <b>FW ENGL 101</b> Writing and Rhetoric I  | 3              |
| <b>FW ENGL 102</b> Writing and Rhetoric II   | 3              |
| <b>FC</b> Foundations of Oral Communication  | 3              |
| <b>FM</b> Foundations of Mathematics course  | 3-4            |
| <b>FN</b> Foundations of Natural, Physical, & Applied Sciences course with lab   | 4              |
| <b>FN</b> Foundations of Natural, Physical, & Applied Sciences course in a second field  | 3-4            |
| <b>FA</b> Foundations of Arts course   | 3              |
| <b>FH</b> SPAN 102 Elementary Spanish II   | 4              |
| <b>FS</b> Foundations of Social Sciences course  | 3              |
| <b>FS</b> Foundations of Social Sciences course in a second field  | 3              |
| SPAN 101 Elementary Spanish I  | 4              |
| SPAN 201 Intermediate Spanish I  | 4              |
| SPAN 202 Intermediate Spanish II   | 4              |
| SPAN 300 Spanish for Bilinguals or SPAN 301 Conversational Spanish   | 3              |
| SPAN 302 Spanish Grammar and Composition or SPAN 402 Advanced Spanish Grammar and Syntax   | 3              |
| SPAN 304 Introduction to Hispanic Literature   | 3              |
| SPAN 376 Spanish Peninsular Culture & Civilization or SPAN 377 Latin American Culture and Civilization or SPAN 385 Mexican American Culture and Civilization | 3              |
| SPAN 403, 404 Survey of Latin American Lit I & II or SPAN 405, 406 Survey of Spanish Peninsular Lit I & II   | 6              |
| <b>FF</b> SPAN 498 Senior Seminar  | 3              |
| WORLD 300 Career Exploration & Portfolio Development   | 1              |
| Upper-division Spanish courses (Only 3 credit hours of electives may be from SPAN 496.)  | 9              |

|  |            |
|--|------------|
| Upper-division electives to total 40 credits | 5          |
| Electives to total 120 credits               | 28-30      |
| <b>Total</b>                                 | <b>120</b> |

| Spanish, Secondary Education Bachelor of Arts   |                |
|---|----------------|
| <i>Course Number and Title</i>  | <i>Credits</i> |
| University Foundations requirements indicated in bold. See page 48 for details and lists of approved courses.   |                |
| <b>UF 100</b> Foundations of Intellectual Life  | 3              |
| <b>UF 200</b> Foundations of Ethics and Diversity   | 3              |
| <b>FW ENGL 101</b> Writing and Rhetoric I   | 3              |
| <b>FW ENGL 102</b> Writing and Rhetoric II  | 3              |
| <b>FC</b> Foundations of Oral Communication   | 3              |
| <b>FM</b> Foundations of Mathematics course   | 3-4            |
| <b>FN</b> Foundations of Natural, Physical, & Applied Sciences course with lab  | 4              |
| <b>FN</b> Foundations of Natural, Physical, & Applied Sciences course in a second field   | 3-4            |
| <b>FA</b> Foundations of Arts course  | 3              |
| <b>FH</b> SPAN 102 Elementary Spanish II  | 4              |
| <b>FS</b> ED-CIFS 201 Education, Schooling, and Society   | 3              |
| <b>FS</b> Foundations of Social Sciences course in a second field   | 3              |
| EDTECH 202 Teaching and Learning in a Digital Age   | 3              |
| ED-CIFS 301* Teaching Experience I  | 2              |
| ED-CIFS 302* Learning and Instruction   | 4              |
| ED-CIFS 401* Professional Year — Teaching Experience II   | 3              |
| ED-ESP 350* Teaching Students with Exceptional Need at the Secondary Level  | 3              |
| Teaching Experience III/IV*   | 14             |
| *You must apply for admission to secondary teacher education to enroll in these upper-division education courses. Completion of all requirements for graduation with a secondary education option may require more than 120 credit hours. See Department of Curriculum, Instruction, and Foundational Studies for more information. |                |
| LING 305 Introduction to Language Studies<br>SPAN 415 Intro to Spanish Linguistics  | 3              |
| SPAN 101 Elementary Spanish I   | 4              |
| SPAN 201 Intermediate Spanish I   | 4              |
| SPAN 202 Intermediate Spanish II  | 4              |
| SPAN 300 Spanish for Bilinguals or SPAN 301 Conversational Spanish  | 3              |
| SPAN 302 Spanish Grammar and Composition or SPAN 402 Advanced Spanish Grammar and Syntax  | 3              |
| SPAN 304 Introduction to Hispanic Literature  | 3              |
| SPAN 376 Spanish Peninsular Culture & Civilization or SPAN 377 Latin American Culture and Civilization or SPAN 385 Mexican American Culture and Civilization  | 3              |
| SPAN 403, 404 Survey of Latin American Lit I & II or SPAN 405, 406 Survey of Spanish Peninsular Lit I & II  | 6              |
| <b>FF</b> SPAN 498 Senior Seminar   | 3              |
| WORLD 300 Career Exploration & Portfolio Development  | 1              |
| WORLD 410 Theories & Methods for Teaching a Second Language in Secondary Classrooms   | 3              |
| WORLD 420 Understanding & Assessing Literacy for Second Language Learners   | 3              |

|   |                |
|---|----------------|
| Upper-division Spanish courses<br>(Only 3 credit hours of electives may be from SPAN 496. ) | 9              |
| Electives to total 120 credits  | 0-1            |
| <b>Total</b>  | <b>120-121</b> |

| American Sign Language Minor                       |                |
|--|----------------|
| <i>Course Number and Title</i>                     | <i>Credits</i> |
| ASL 101 American Sign Language I                   | 4              |
| ASL 102, 201, 202, 301, 302 American Sign Language | 20             |
| <b>Total</b>                                       | <b>24</b>      |

| Arabic Studies Minor  |                |
|---|----------------|
| <i>Course Number and Title</i>  | <i>Credits</i> |
| ARABIC 101-102 Elementary Arabic I and II   | 8              |
| ARABIC 201-202 Intermediate Arabic I and II   | 8              |
| Electives chosen from the following:<br>HIST 151 Islamic Civilization<br>HIST 368 The Islamic Middle East<br>HIST 369 The Modern Middle East<br>WORLD 381 Contemporary Arab Women Writers | 6              |
| <b>Total</b>  | <b>22</b>      |

| Basque Studies Minor   |                |
|--|----------------|
| <i>Course Number and Title</i>   | <i>Credits</i> |
| BASQUE 101-102 Elementary Basque I and II  | 8              |
| Electives chosen from:<br>BASQUE 201-202 Intermediate Basque<br>BASQUE 203 Intermediate Basque Conversation<br>BASQUE 301 Advanced Basque<br>BASQUE 493 Internship: Ikastola (Boise Basque Preschool)<br>BASQ-STD 123 Basque Dance<br>BASQ-STD 129 Basque Cuisine<br>BASQ-STD 294 Workshop in Basque Studies<br>BASQ-STD 323 Basque Politics<br>BASQ-STD 335 Basque Culture<br>BASQ-STD 353 The Arts in the Basque Country<br>BASQ-STD 377 Early European History: Basque Origins and Traditions<br>BASQ-STD 378 Modern Basque History<br>BASQ-STD 379 Basque Global Migration<br>BASQ-STD 380 Colloquium in Basque Studies<br>BASQ-STD 439 Foreign Study<br>BASQ-STD 493 Internship: Basque Museum and Cultural Center<br>BASQ-STD 494 Workshop in Basque Studies<br>SPAN 450 Basque Literature in Spanish Translation<br>SPAN 491 Basque Cinema<br>SPAN 494 Workshop in Basque Studies | 15             |
| <b>Total</b>   | <b>23</b>      |
| Note: BASQUE courses are taught in Basque. BASQ-STD courses are taught in English. SPAN courses are taught in Spanish.   |                |

| Chinese Studies Minor                                  |                |
|--|----------------|
| <i>Course Number and Title</i>                         | <i>Credits</i> |
| CHINESE 101 Elementary Mandarin Chinese I              | 4              |
| CHINESE 102 Elementary Mandarin Chinese II             | 4              |
| CHINESE 201-202 Intermediate Mandarin Chinese I and II | 8              |
| HIST 121 Asian Civilizations                           | 3              |

|  |           |
|--|-----------|
| Electives chosen from the following:<br>ARTHIST 103 Survey of Far Eastern Art<br>CHINESE 301 Advanced Mandarin Chinese I<br>HIST 373 The History of Modern China<br>PHIL 321 Eastern Philosophy<br>WORLD 320 China Today<br>WORLD 321 Chinese Culture through Film | 6         |
| <b>Total</b>   | <b>25</b> |

| French Minor  |                |
|---|----------------|
| <i>Course Number and Title</i>  | <i>Credits</i> |
| FREN 201-202 Intermediate French I and II   | 6              |
| FREN 203 Intermediate French Conversation   | 2              |
| FREN 303 Advanced French Conversation and Composition   | 3              |
| FREN 304 Intro to French and Francophone Literatures  | 3              |
| FREN 412 Advanced French Grammar and Pronunciation  | 3              |
| FREN 376 French Culture and Civilization or<br>FREN 475 France Today or<br>FREN 485 The Francophone World Today | 3              |
| Upper-division French courses   | 3              |
| <b>Total</b>  | <b>23</b>      |

| French for Business Minor   |                |
|---|----------------|
| <i>Course Number and Title</i>  | <i>Credits</i> |
| FREN 201-202 Intermediate French I and II   | 6              |
| FREN 203 Intermediate French Conversation   | 2              |
| FREN 303 Advanced French Conversation and Composition   | 3              |
| FREN 307 French for Business  | 3              |
| FREN 412 Advanced French Grammar and Pronunciation  | 3              |
| FREN 376 French Culture and Civilization or<br>FREN 475 France Today or<br>FREN 485 The Francophone World Today | 3              |
| Upper-division French courses   | 3              |
| <b>Total</b>  | <b>23</b>      |

| German Minor  |                |
|---|----------------|
| <i>Course Number and Title</i>                      | <i>Credits</i> |
| GERM 201-202 Intermediate German I and II           | 6              |
| GERM 203 Intermediate German Conversation           | 2              |
| GERM 303 Advanced German Conversation & Composition | 3              |
| GERM 304 Introduction to German Literature          | 3              |
| GERM 377 German Culture and Civilization            | 3              |
| Upper-division German courses                       | 6              |
| <b>Total</b>  | <b>23</b>      |

| German for Business Minor                           |                |
|---|----------------|
| <i>Course Number and Title</i>                      | <i>Credits</i> |
| GERM 201-202 Intermediate German I and II           | 6              |
| GERM 203 Intermediate German Conversation           | 2              |
| GERM 303 Advanced German Conversation & Composition | 3              |
| GERM 307 Business German                            | 3              |

## WORLD LANGUAGES

|   |           |
|---|-----------|
| GERM 412 Advanced German Grammar and Syntax | 3         |
| GERM 475 The German-Speaking World Today    | 3         |
| Upper-division German courses               | 3         |
| <b>Total</b>                                | <b>23</b> |

| Iberian Studies Minor  |                |
|--|----------------|
| <i>Course Number and Title</i>   | <i>Credits</i> |
| Four (4) language electives chosen from:<br>BASQUE 101-102 Elementary Basque<br>BASQUE 201-202 Intermediate Basque<br>PORTUGUE 101-102 Elementary Portuguese   | 14-16          |
| SPAN 201 Intermediate Spanish I  | 4              |
| SPAN 202 Intermediate Spanish II   | 4              |
| Electives chosen from:<br>BASQ-STD 123 Basque Dance<br>BASQ-STD 129 Basque Cuisine<br>BASQ-STD 294 Workshop in Basque Studies<br>BASQ-STD 323 Basque Politics<br>BASQ-STD 335 Basque Culture<br>BASQ-STD 353 The Arts in the Basque Country<br>BASQ-STD 377 Early European History: Basque Origins & Traditions<br>BASQ-STD 378 Modern Basque History<br>BASQ-STD 379 European Migration to the Americas: The Basques<br>BASQ-STD 380 Colloquium in Basque Studies<br>BASQ-STD 439 Foreign Study<br>BASQ-STD 493 Internship: Basque Museum & Cultural<br>BASQ-STD 494 Workshop in Basque Studies<br>SPAN 320 Portuguese for Spanish Speakers<br>SPAN 376 Spanish Peninsular Culture & Civilization<br>SPAN 405 Survey of Spanish Peninsular Literature I<br>SPAN 406 Survey of Spanish Peninsular Literature II<br>SPAN 415 Introduction to Spanish Linguistics<br>SPAN 420 Topics in Spanish Linguistics<br>SPAN 440 Topics in Spanish Peninsular Literature<br>SPAN 450 Basque Literature in Spanish Translation<br>SPAN 491 Basque Cinema | 6              |
| <b>Total</b>   | <b>28-30</b>   |

| Japanese Studies Minor  |                |
|---|----------------|
| <i>Course Number and Title</i>  | <i>Credits</i> |
| HIST 121 Asian Civilizations  | 3              |
| JAPANESE 101 Elementary Japanese I  | 4              |
| JAPANESE 102 Elementary Japanese II   | 4              |
| JAPANESE 201-202 Intermediate Japanese I and II   | 8              |
| Electives chosen from the following:<br>ARTHIST 103 Survey of Far Eastern Art<br>JAPANESE 301 Advanced Japanese I<br>PHIL 321 Eastern Philosophy<br>WORLD 310 Japanese Culture and Society<br>WORLD 315 Japanese Culture through Film | 6              |
| <b>Total</b>  | <b>25</b>      |

| Korean Studies Minor                        |                |
|---|----------------|
| <i>Course Number and Title</i>              | <i>Credits</i> |
| HIST 121 Asian Civilizations                | 3              |
| KOREAN 101-102 Elementary Korean I and II   | 8              |
| KOREAN 201-202 Intermediate Korean I and II | 8              |
| WORLD 330 Korea Today                       | 3              |

|  |           |
|--|-----------|
| Elective chosen from the following:<br>ARTHIST 103 Survey of Far Eastern Art<br>HIST 321 Environmental History of Modern East Asia<br>HIST 340 The Korean War<br>KOREAN 103 Elementary Korean Language and Culture<br>KOREAN 203 Intermediate Korean Language & Culture<br>PHIL 321 Eastern Philosophy | 3         |
| <b>Total</b>   | <b>25</b> |

| Latin Minor   |                |
|---|----------------|
| <i>Course Number and Title</i>  | <i>Credits</i> |
| LATIN 211 Elementary Classical Latin  | 4              |
| LATIN 212 Advanced Classical Latin  | 4              |
| LATIN 310 The Augustan Age  | 3              |
| LATIN 320 Early Church Latin Literature   | 3              |
| LATIN 330 The Constantinian Era   | 3              |
| LATIN 340 Medieval Latin Literature   | 3              |
| History and culture courses chosen from:<br>ARTHIST 101 Survey of Western Art I<br>ENGL 341 Medieval Literature<br>HIST 101 World History I<br>HIST 245 Medieval Europe<br>HIST 302 The Roman Republic<br>HLTH 101 Medical Terminology<br>PHIL 305 Ancient Greek Philosophy<br>PHIL 307 Medieval Philosophy | 3              |
| <b>Total</b>  | <b>23</b>      |

| Latin American and Latino/a Studies Minor  |                |
|--|----------------|
| <i>Course Number and Title</i>   | <i>Credits</i> |
| SPAN 201 Intermediate Spanish I  | 4              |
| SPAN 202 Intermediate Spanish II   | 4              |
| Electives in at least three (3) different disciplines chosen from:<br>ANTH 320 Latin American Prehistory<br>HIST 131 Latin American Civilizations<br>HIST 262 Witnessing Latin America<br>HIST 363 History of Mexico<br>HIST 365 Borders and Borderlands in Latin America<br>POLS 423 Latin American Politics<br>SOC 332 Introduction to Mexican-American Studies<br>SOC 333 Contemporary Issues of Chicanas/Chicanos<br>SPAN 300 Spanish For Bilinguals<br>SPAN 301 Conversational Spanish<br>SPAN 377 Latin American Civilization and Culture<br>SPAN 385 Mexican American Culture and Civilization<br>SPAN 403 Survey of Latin American Literature I<br>SPAN 404 Survey of Latin American Literature II<br>SPAN 425 Mexican American Literature<br>SPAN 430 Topics in Latin American Literature<br>SPAN 475 Latin America Today<br>SPAN 476 Human Rights in Latin America | 15             |
| <b>Total</b>   | <b>23</b>      |
| Note: SPAN courses are taught in Spanish. All others are taught in English.  |                |

| Romance Languages Minor  |                |
|--|----------------|
| <i>Course Number and Title</i>   | <i>Credits</i> |
| LATIN 211 Elementary Classical Latin   | 4              |
| Electives chosen from:<br>FREN 101-102 Elementary French I and II<br>LATIN 212 Advanced Classical Latin<br>PORTUGUE 101-102 Elementary Portuguese I and II<br>SPAN 101-102 Elementary Spanish I and II<br>SPAN 320 Portuguese for Spanish Speakers | 15-16          |

|   |              |
|---|--------------|
| FREN 201-202 and FREN 203 Intermediate French or SPAN 201 & SPAN 202/203 Intermediate Spanish | 8            |
| <b>Total</b>  | <b>27-28</b> |

| Spanish Minor  |                |
|--|----------------|
| <i>Course Number and Title</i>   | <i>Credits</i> |
| SPAN 201 Intermediate Spanish I  | 4              |
| SPAN 202 Intermediate Spanish II   | 4              |
| SPAN 300 Spanish for Bilinguals or SPAN 301 Conversational Spanish   | 3              |
| SPAN 302 Spanish Grammar and Composition or SPAN 402 Advanced Spanish Grammar and Syntax   | 3              |
| SPAN 304 Introduction to Hispanic Literature   | 3              |
| SPAN 376 Spanish Peninsular Culture & Civilization or SPAN 377 Latin American Culture and Civilization or SPAN 385 Mexican American Culture and Civilization | 3              |
| Upper-division Spanish courses   | 3              |
| <b>Total</b>   | <b>23</b>      |

| Spanish Interpretation Minor  |                |
|---|----------------|
| <i>Course Number and Title</i>  | <i>Credits</i> |
| SPAN 201 Intermediate Spanish I   | 4              |
| SPAN 202 Intermediate Spanish II  | 4              |
| SPAN 300 Spanish for Bilinguals   | 3              |
| SPAN 381 Introduction to Court Interpreting   | 3              |
| SPAN 382 Spanish for Healthcare   | 3              |
| SPAN 402 Advanced Spanish Grammar and Syntax  | 3              |
| SPAN 488 Senior Outcomes Assessment: Spanish Oral Proficiency Interview<br>Note: Students need to obtain a final rating of advanced on the Oral Proficiency Review. | 0              |
| Upper-division SPAN elective  | 3              |
| <b>Total</b>  | <b>23</b>      |

| Spanish for Business Minor   |                |
|--|----------------|
| <i>Course Number and Title</i>   | <i>Credits</i> |
| SPAN 201 Intermediate Spanish I  | 4              |
| SPAN 202 Intermediate Spanish II   | 4              |
| SPAN 300 Spanish for Bilinguals or SPAN 301 Conversational Spanish   | 3              |
| SPAN 302 Spanish Grammar and Composition or SPAN 402 Advanced Spanish Grammar and Syntax   | 3              |
| SPAN 307 Spanish for Business  | 3              |
| SPAN 480 Advanced Business Spanish   | 3              |
| SPAN 376 Spanish Peninsular Culture & Civilization or SPAN 377 Latin American Culture and Civilization or SPAN 385 Mexican American Culture and Civilization | 3              |
| <b>Total</b>   | <b>23</b>      |

| Basque Cultural Studies Certificate   |                |
|---|----------------|
| <i>Course Number and Title</i>  | <i>Credits</i> |
| Choose one (1) from:<br>BASQ-STD 335 Basque Culture<br>BASQ-STD 377 Early European History: Basque Origins and Traditions<br>BASQ-STD 378 Modern Basque History<br>BASQ-STD 379 Basque Global Migration<br>BASQ-STD 380 Colloquium in Basque Studies  | 3              |
| Electives chosen from:<br>BASQ-STD 123 Basque Dance<br>BASQ-STD 129 Basque Cuisine<br>BASQ-STD 294 Workshop in Basque Studies<br>BASQ-STD 323 Basque Politics<br>BASQ-STD 335 Basque Culture<br>BASQ-STD 353 The Arts in the Basque Country<br>BASQ-STD 377 Early European History: Basque Origins and Traditions<br>BASQ-STD 378 Modern Basque History<br>BASQ-STD 379 Basque Global Migration<br>BASQ-STD 380 Colloquium in Basque Studies<br>BASQ-STD 439 Foreign Study<br>BASQ-STD 493 Internship: Basque Museum and Cultural Center<br>BASQ-STD 494 Workshop in Basque Studies<br>SPAN 450 Basque Literature in Spanish Translation<br>SPAN 491 Basque Cinema<br>SPAN 494 Workshop in Basque Studies | 6              |
| <b>Total</b>  | <b>9</b>       |
| Note: BASQ-STD courses are taught in English. SPAN courses are taught in Spanish<br>The certificate will be awarded following completion of an associate or baccalaureate degree.   |                |

| Elementary American Sign Language Certificate   |                |
|---|----------------|
| <i>Course Number and Title</i>  | <i>Credits</i> |
| ASL 101 American Sign Language I  | 4              |
| ASL 102 American Sign Language II   | 4              |
| <b>Total</b>  | <b>8</b>       |
| The certificate will be awarded following completion of an associate or baccalaureate degree. |                |

| Intermediate American Sign Language Certificate   |                |
|---|----------------|
| <i>Course Number and Title</i>  | <i>Credits</i> |
| ASL 101 American Sign Language I  | 4              |
| ASL 102 American Sign Language II   | 4              |
| ASL 201-202 American Sign Language III and IV   | 8              |
| <b>Total</b>  | <b>16</b>      |
| The certificate will be awarded following completion of an associate or baccalaureate degree. |                |

| Elementary Arabic Certificate   |                |
|---|----------------|
| <i>Course Number and Title</i>  | <i>Credits</i> |
| ARABIC 101-102 Elementary Arabic I and II   | 8              |
| <b>Total</b>  | <b>8</b>       |
| The certificate will be awarded following completion of an associate or baccalaureate degree. |                |

## WORLD LANGUAGES

| Intermediate Arabic Certificate   |                |
|---|----------------|
| <i>Course Number and Title</i>  | <i>Credits</i> |
| ARABIC 101-102 Elementary Arabic I and II   | 8              |
| ARABIC 201-202 Intermediate Arabic I and II   | 8              |
| <b>Total</b>  | <b>16</b>      |
| The certificate will be awarded following completion of an associate or baccalaureate degree. |                |

| Elementary Basque Certificate   |                |
|---|----------------|
| <i>Course Number and Title</i>  | <i>Credits</i> |
| BASQUE 101-102 Elementary Basque I and II   | 8              |
| <b>Total</b>  | <b>8</b>       |
| The certificate will be awarded following completion of an associate or baccalaureate degree. |                |

| Intermediate Basque Certificate   |                |
|---|----------------|
| <i>Course Number and Title</i>  | <i>Credits</i> |
| BASQUE 101-102 Elementary Basque I and II   | 8              |
| BASQUE 201-202 Intermediate Basque I and II   | 6              |
| <b>Total</b>  | <b>14</b>      |
| The certificate will be awarded following completion of an associate or baccalaureate degree. |                |

| Elementary French Certificate   |                |
|---|----------------|
| <i>Course Number and Title</i>  | <i>Credits</i> |
| FREN 101-102 Elementary French I and II   | 8              |
| <b>Total</b>  | <b>8</b>       |
| The certificate will be awarded following completion of an associate or baccalaureate degree. |                |

| Intermediate French Certificate   |                |
|---|----------------|
| <i>Course Number and Title</i>  | <i>Credits</i> |
| FREN 101-102 Elementary French I and II   | 8              |
| FREN 201-202 Intermediate French I and II   | 6              |
| <b>Total</b>  | <b>14</b>      |
| The certificate will be awarded following completion of an associate or baccalaureate degree. |                |

| Elementary German Certificate   |                |
|---|----------------|
| <i>Course Number and Title</i>  | <i>Credits</i> |
| GERM 101-102 Elementary German I and II   | 8              |
| <b>Total</b>  | <b>8</b>       |
| The certificate will be awarded following completion of an associate or baccalaureate degree. |                |

| Intermediate German Certificate   |                |
|---|----------------|
| <i>Course Number and Title</i>  | <i>Credits</i> |
| GERM 101-102 Elementary German I and II   | 8              |
| GERM 201-202 Intermediate German I and II   | 6              |
| <b>Total</b>  | <b>14</b>      |
| The certificate will be awarded following completion of an associate or baccalaureate degree. |                |

| Elementary Japanese Certificate   |                |
|---|----------------|
| <i>Course Number and Title</i>  | <i>Credits</i> |
| JAPANESE 101-102 Elementary Japanese I and II   | 8              |
| <b>Total</b>  | <b>8</b>       |
| The certificate will be awarded following completion of an associate or baccalaureate degree. |                |

| Intermediate Japanese Certificate   |                |
|---|----------------|
| <i>Course Number and Title</i>  | <i>Credits</i> |
| JAPANESE 101-102 Elementary Japanese I and II   | 8              |
| JAPANESE 201-202 Intermediate Japanese I and II   | 8              |
| <b>Total</b>  | <b>16</b>      |
| The certificate will be awarded following completion of an associate or baccalaureate degree. |                |

| Elementary Korean Certificate   |                |
|---|----------------|
| <i>Course Number and Title</i>  | <i>Credits</i> |
| KOREAN 101-102 Elementary Korean I and II   | 8              |
| <b>Total</b>  | <b>8</b>       |
| The certificate will be awarded following completion of an associate or baccalaureate degree. |                |

| Intermediate Korean Certificate   |                |
|---|----------------|
| <i>Course Number and Title</i>  | <i>Credits</i> |
| KOREAN 101-102 Elementary Korean I and II   | 8              |
| KOREAN 201-202 Intermediate Korean I and II   | 8              |
| <b>Total</b>  | <b>16</b>      |
| The certificate will be awarded following completion of an associate or baccalaureate degree. |                |

| Elementary Latin Certificate  |                |
|---|----------------|
| <i>Course Number and Title</i>  | <i>Credits</i> |
| LATIN 211 Elementary Classical Latin  | 4              |
| LATIN 212 Advanced Classical Latin  | 4              |
| <b>Total</b>  | <b>8</b>       |
| The certificate will be awarded following completion of an associate or baccalaureate degree. |                |

| Intermediate Latin Certificate  |                |
|---|----------------|
| <i>Course Number and Title</i>  | <i>Credits</i> |
| LATIN 211 Elementary Classical Latin  | 4              |
| LATIN 212 Advanced Classical Latin  | 4              |
| Electives chosen from the following:<br>LATIN 310 The Augustan Age<br>LATIN 320 Early Church Latin Literature<br>LATIN 330 The Constantinian Era<br>LATIN 340 Medieval Latin Literature | 6              |
| <b>Total</b>  | <b>14</b>      |
| The certificate will be awarded following completion of an associate or baccalaureate degree.   |                |



| Latinx Community Engagement Certificate   |                |
|---|----------------|
| <i>Course Number and Title</i>  | <i>Credits</i> |
| SPAN 300 Spanish for Bilinguals or<br>SPAN 301 Conversational Spanish   | 3              |
| SPAN 302 Spanish Grammar and Composition or<br>SPAN 402 Advanced Spanish Grammar and Syntax   | 3              |
| SPAN 488 Senior Outcomes Assessment: Spanish Oral Proficiency Interview<br>Note: Students need to obtain a final rating of Advanced Low on the Oral Proficiency Review.   | 0              |
| SPAN 493 Internship or<br>SPAN 496 Independent Study  | 1              |
| Two (2) of the following:<br>GENDER 200 Introduction to Gender Studies<br>GLOBAL 303/ECON 315 Global Economic Development<br>GLOBAL 320 Selected Topics in Contemporary International Relations<br>GLOBAL 350 Selected Topics in Contemporary World Economics<br>HEP 293 Internship in Health Education and Promotion<br>HEP 440 Health Education and Promotion Programming<br>HEP 493 Internship in Health Education And Promotion<br>SOC 333 Contemporary Issues of Chicanas/Chicanos<br>SPAN 377 Latin American Culture and Civilization<br>SPAN 382 Spanish for Healthcare<br>SPAN 385 Mexican American Culture and Civilization<br>SPAN 475 Latin America Today<br>SPAN 476 Human Rights in Latin America<br>SPS 301 Engagement and Empathy in Public Service<br>SPS 331 Advocacy in Action<br>Or a class that matches the certificate goals (with prior approval from WL) | 6              |
| <b>Total</b>  | <b>13</b>      |
| The certificate will be awarded following completion of an associate or baccalaureate degree.   |                |

| Elementary Mandarin Chinese Certificate   |                |
|---|----------------|
| <i>Course Number and Title</i>  | <i>Credits</i> |
| CHINESE 101-102 Elementary Mandarin Chinese I and II  | 8              |
| <b>Total</b>  | <b>8</b>       |
| The certificate will be awarded following completion of an associate or baccalaureate degree. |                |

| Intermediate Mandarin Chinese Certificate   |                |
|---|----------------|
| <i>Course Number and Title</i>  | <i>Credits</i> |
| CHINESE 101-102 Elementary Mandarin Chinese I and II  | 8              |
| CHINESE 201-202 Intermediate Mandarin Chinese I and II  | 8              |
| <b>Total</b>  | <b>16</b>      |
| The certificate will be awarded following completion of an associate or baccalaureate degree. |                |

| Elementary Portuguese Certificate   |                |
|---|----------------|
| <i>Course Number and Title</i>  | <i>Credits</i> |
| PORTUGUE 101-102 Elementary Portuguese I and II   | 8              |
| <b>Total</b>  | <b>8</b>       |
| The certificate will be awarded following completion of an associate or baccalaureate degree. |                |

| Intermediate Portuguese Certificate   |                |
|---|----------------|
| <i>Course Number and Title</i>  | <i>Credits</i> |
| PORTUGUE 101-102 Elementary Portuguese I and II   | 8              |
| PORTUGUE 201-202 Intermediate Portuguese I and II   | 8              |
| <b>Total</b>  | <b>16</b>      |
| The certificate will be awarded following completion of an associate or baccalaureate degree. |                |

| Elementary Spanish Certificate  |                |
|---|----------------|
| <i>Course Number and Title</i>  | <i>Credits</i> |
| SPAN 101-102 Elementary Spanish I and II  | 8              |
| <b>Total</b>  | <b>8</b>       |
| The certificate will be awarded following completion of an associate or baccalaureate degree. |                |

| Intermediate Spanish Certificate  |                |
|---|----------------|
| <i>Course Number and Title</i>  | <i>Credits</i> |
| SPAN 101-102 Elementary Spanish I and II  | 8              |
| SPAN 201 Intermediate Spanish I   | 4              |
| SPAN 202 Intermediate Spanish II  | 4              |
| <b>Total</b>  | <b>16</b>      |
| The certificate will be awarded following completion of an associate or baccalaureate degree. |                |

| Foreign Language Teaching Endorsement   |                |
|---|----------------|
| <i>Course Number and Title</i>  | <i>Credits</i> |
| LING 305 Introduction to Language Studies or<br>SPAN 415 Intro to Spanish Linguistics | 3              |
| WORLD 410 Theories & Methods for Teaching a Second Language in Secondary Classrooms   | 3              |
| <b>French</b>   |                |
| FREN 101-102 Elementary French I and II   | 8              |
| FREN 201-202-203 Intermediate French  | 8              |
| FREN 303 Advanced French Conversation and Composition                                 | 3              |
| FREN 304 Intro to French and Francophone Literature                                   | 3              |
| FREN 376 French Culture   | 3              |
| FREN 412 Advanced French Grammar and Pronunciation                                    | 3              |
| <b>Total</b>  | <b>34</b>      |
| <b>German</b>   |                |
| GERM 101-102 Elementary German I and II   | 8              |
| GERM 201-202-203 Intermediate German  | 8              |
| GERM 303 Advanced German Conversation & Composition                                   | 3              |
| GERM 304 Introduction to German Literature  | 3              |
| GERM 377 German Culture and Civilization  | 3              |
| GERM 412 Advanced German Grammar and Syntax   | 3              |
| <b>Total</b>  | <b>34</b>      |
| <b>Spanish</b>  |                |
| SPAN 101-102 Elementary Spanish I and II  | 8              |
| SPAN 201 Intermediate Spanish I   | 4              |
| SPAN 202 Intermediate Spanish II  | 4              |

## WORLD LANGUAGES

|  |    |
|--|----|
| SPAN 300 Spanish for Bilinguals or<br>SPAN 301 Conversational Spanish  | 3  |
| SPAN 302 Spanish Grammar and Composition   | 3  |
| SPAN 304 Introduction to Hispanic Literature   | 3  |
| SPAN 376 Spanish Peninsular Culture & Civilization or<br>SPAN 377 Latin American Culture and Civilization or<br>SPAN 385 Mexican American Culture and Civilization | 3  |
| Total  | 34 |
| See Department of Curriculum, Instruction, and Foundational Studies for more information.  |    |

### Course Offerings

#### ARABIC—Arabic

##### Lower Division

**ARABIC 101 ELEMENTARY ARABIC I (4-1-4)(F)(FH).** Develops beginning abilities in Modern Standard Arabic in all four language skills: speaking, reading, writing, and listening. Offers basic study of grammatical structures and vocabulary in a communicative context.

**ARABIC 102 ELEMENTARY ARABIC II (4-1-4)(S)(FH).** Continues to develop beginning abilities in all four language skills: speaking, reading, writing, and listening. Offers basic study of grammatical structures and vocabulary in a communicative context. PREREQ: ARABIC 101.

**ARABIC 201 INTERMEDIATE ARABIC I (4-1-4)(F)(FH).** Continues building communicative skills in speaking, reading, writing, and listening. Further study of grammatical structures and vocabulary. Emphasis on Modern Standard Arabic. Oral and written skills are practiced through study of Arabic cultures. PREREQ: ARABIC 102 or PERM/INST.

**ARABIC 202 INTERMEDIATE ARABIC II (4-1-4)(S)(FH).** Continues building communicative skills in speaking, reading, writing, and listening. Further study of grammatical structures and vocabulary. Emphasis on Modern Standard Arabic. Oral and written skills are practiced through study of Arabic cultures. PREREQ: ARABIC 201 or PERM/INST.

#### ASL—American Sign Language

##### Lower Division

**ASL 101 AMERICAN SIGN LANGUAGE I (4-1-4)(F, SU)(FH).** Develops beginning abilities in receptive and expressive skills. Offers basic study of grammatical structures and vocabulary in a communicative context. Emphasis placed on the history of sign language and deaf culture. Course conducted primarily in ASL.

**ASL 102 AMERICAN SIGN LANGUAGE II (4-1-4)(S)(FH).** Continues developing beginning abilities in receptive and expressive skills. Further study of grammatical structures, vocabulary and culture. Course conducted primarily in ASL. PREREQ: ASL 101 or PERM/INST.

**ASL 201 AMERICAN SIGN LANGUAGE III (4-1-4)(F)(FH).** Continues developing intermediate abilities in receptive and expressive skills. Further study of grammatical structures, vocabulary and culture. Course conducted in ASL. PREREQ: ASL 102 or PERM/INST.

**ASL 202 AMERICAN SIGN LANGUAGE IV (4-1-4)(S)(FH).** Continues developing intermediate abilities in receptive and expressive skills. Further study of grammatical structures, vocabulary and culture. Course conducted in ASL. PREREQ: ASL 201 or PERM/INST.

##### Upper Division

**ASL 301 AMERICAN SIGN LANGUAGE V (4-1-4)(F).** Continues developing advanced abilities in receptive and expressive skills. In-depth study of grammatical structures, vocabulary and culture. Course conducted in ASL. PREREQ: ASL 202 or PERM/INST.

**ASL 302 AMERICAN SIGN LANGUAGE VI (4-1-4)(S).** Continues developing advanced abilities in receptive and expressive skills. In-depth study

of grammatical structures, vocabulary and culture. Course conducted in ASL. PREREQ: ASL 301 or PERM/INST.

#### BASQUE—Basque

##### Lower Division

**BASQUE 101 ELEMENTARY BASQUE I (4-1-4)(F)(FH).** Develops beginning abilities in all four language skills: speaking, reading, writing, and listening. Offers basic study of grammatical structures and vocabulary in a communicative context. Introduces aspects of Basque culture.

**BASQUE 102 ELEMENTARY BASQUE II (4-1-4)(S)(FH).** Continues to develop beginning abilities in all four language skills: speaking, reading, writing, and listening. Offers basic study of grammatical structures and vocabulary in a communicative context. Introduces aspects of Basque culture. PREREQ: BASQUE 101 or PERM/INST.

**BASQUE 201 INTERMEDIATE BASQUE I (3-1-3)(F)(FH).** Continues building communicative skills in speaking, reading, writing, and listening. Further study of grammatical structures and vocabulary. Oral and written skills are practiced through the study of Basque culture. Course conducted in Basque. PREREQ: BASQUE 102 or PERM/INST.

**BASQUE 202 INTERMEDIATE BASQUE II (3-1-3)(S)(FH).** Continues building communicative skills in speaking, reading, writing, and listening. Further study of grammatical structures and vocabulary. Oral and written skills are practiced through the study of Basque culture. Course conducted in Basque. PREREQ: BASQUE 201 or PERM/INST.

**BASQUE 203 INTERMEDIATE BASQUE CONVERSATION (1-0-1)(F/S).** Cultural topics will serve as the point of departure for conversation and discussion as well as further refinement of linguistic skills. May be repeated once for credit. Course conducted in Basque. PREREQ: BASQUE 102 or PERM/INST.

##### Upper Division

**BASQUE 301 ADVANCED BASQUE (4-1-4)(F, S).** Refinement of communication skills in speaking, reading, writing and listening. Advanced topics in grammatical structures and vocabulary. Oral and written skills are practiced through the study of Basque culture. Course conducted in Basque. PREREQ: BASQUE 202 and 203 or PERM/INST.

#### BASQ-STD—Basque Studies

##### Lower Division

**BASQ-STD 123 BASQUE DANCE (2-2-1)(F/S).** Instruction and participation in techniques and application of basic steps and patterns used in folk dancing from the Basque Country. May be repeated for a maximum of three credits. (Pass/Fail.)

**BASQ-STD 129 BASQUE CUISINE (1-3-2)(F/S).** Production and discussion of flavor principals, regional history, ingredient tasting, examination and use of equipment unique to Basque cuisine.

##### Upper Division

**BASQ-STD 323 BASQUE POLITICS (3-0-3)(F/S).** Subsequent to an introduction of the historical Basque political law, this course initiates students to current Basque political proposals within the Basque parliament. Propositions by the contemporary nationalist political parties dealing with the European Federation of Nations will be examined.

**BASQ-STD 335 BASQUE CULTURE (3-0-3)(F, S).** Focus on the main characteristics of Basque culture such as language, family structure and housing models still current in the Basque country. Rural sports, festivals and traditions as well as sociology and economy will be examined as a part of contemporary Basque culture.

**BASQ-STD 353 THE ARTS IN THE BASQUE COUNTRY (3-0-3)(F/S).** Analysis of the plastic arts, sculpture, painting, architecture, literature and cinema in the Basque Country.

**BASQ-STD 377 EARLY EUROPEAN HISTORY: BASQUE ORIGINS**

**AND TRADITIONS (3-0-3)(F/S).** A political, social, and economic survey of the pre-modern Basques of Spain and France and their unique ethnic status.

**BASQ-STD 378 MODERN BASQUE HISTORY (3-0-3)(S)(Even years).** Social, political and economic history of the Basque Country from the eighteenth century to the present; situates Basque history within global context.

**BASQ-STD 379 BASQUE GLOBAL MIGRATION (3-0-3)(F/S).** Initiation to the Basque exodus to other continents. Diverse reasons for migration and the routes elected by the immigrants during these centuries will be examined, as well as the national and international Basque organizations that were created as a result of this phenomenon.

**BASQ-STD 380 COLLOQUIUM IN BASQUE STUDIES (3-0-3)(F, S).** Intensive study of a particular period, topic, or problem in Basque Studies. Reading and discussion format. Consult current class schedule for specific selections offered each term. May be repeated with a different topic.

### **BOSNIAN—Bosnian**

#### **Lower Division**

**BOSNIAN 101 ELEMENTARY BOSNIAN I (4-1-4)(F/S/SU)(FH).** Develops beginning abilities in Bosnian in all four language skills: speaking, reading, writing, and listening. Offers basic study of grammatical structures and vocabulary in a communicative context as well as an introduction to Bosnian/Balkan cultures.

### **CHINESE—Chinese, Mandarin**

#### **Lower Division**

**CHINESE 101 ELEMENTARY MANDARIN CHINESE I (4-1-4)(F)(FH).** Develops beginning abilities in all four language skills: speaking, reading, writing, and listening. Offers basic study of grammatical structures and vocabulary in a communicative context. Introduces Simplified Chinese Characters and aspects of Chinese culture.

**CHINESE 102 ELEMENTARY MANDARIN CHINESE II (4-1-4)(S)(FH).** Continues to develop beginning abilities in all four language skills: speaking, reading, writing, and listening. Offers basic study of grammatical structures and vocabulary in a communicative context. Introduces Simplified Chinese Characters and aspects of Chinese culture. PREREQ: CHINESE 101 or PERM/ INST.

**CHINESE 201 INTERMEDIATE MANDARIN CHINESE I (4-1-4)(F)(FH).** Continues building communicative skills in speaking, reading, writing, and listening. Further study of grammatical structures and vocabulary. Emphasis on Simplified Chinese Characters. Oral and written skills are practiced through the study of Chinese culture. Course conducted in Chinese. PREREQ: CHINESE 102 or PERM/INST.

**CHINESE 202 INTERMEDIATE MANDARIN CHINESE II (4-1-4)(S)(FH).** Continues building communicative skills in speaking, reading, writing, and listening. Further study of grammatical structures and vocabulary. Emphasis on Simplified Chinese Characters. Introduces Traditional Chinese Characters. Oral and written skills are practiced through the study of Chinese culture. Course conducted in Chinese. PREREQ: CHINESE 201 or PERM/INST.

#### **Upper Division**

**CHINESE 301 ADVANCED MANDARIN CHINESE I (4-1-4)(F/S).** Refines conversational skills. Additional emphasis placed on formal and colloquial writing. These oral and written skills are practiced through study of Chinese culture and literature. Course conducted in Chinese. PREREQ: CHINESE 202 or PERM/INST.

### **FREN—French**

#### **Lower Division**

**FREN 101 ELEMENTARY FRENCH I (4-1-4)(F)(FH).** Develops beginning abilities in all four language skills: speaking, reading, writing, and listening. Offers basic study of grammatical structures and vocabulary in a communicative context. Introduces students to Francophone cultures.

**FREN 102 ELEMENTARY FRENCH II (4-1-4)(S)(FH).** Continues to develop beginning abilities in all four language skills: speaking, reading, writing, and listening. Offers basic study of grammatical structures and vocabulary in a communicative context. Introduces students to Francophone cultures. PREREQ: FREN 101 or equivalent as determined by placement exam.

**FREN 201 INTERMEDIATE FRENCH I (3-1-3)(F)(FH).** Further development of all four language skills: listening, speaking, reading, and writing. Intensive review of fundamentals of structure and vocabulary in a communicative context. Topics for conversation focus on Francophone cultures. Course conducted in French. PREREQ: FREN 102 or equivalent as determined by placement exam or PERM/INST.

**FREN 202 INTERMEDIATE FRENCH II (3-1-3)(S)(FH).** Further development of all four language skills: listening, speaking, reading, and writing. Intensive review of fundamentals of structure and vocabulary in a communicative context. Topics for conversation focus on Francophone cultures. Course conducted in French. PREREQ: FREN 201 or equivalent as determined by placement exam or PERM/INST.

**FREN 203 INTERMEDIATE FRENCH CONVERSATION (2-0-2)(F).** Cultural readings from various disciplines and from a wide range of sources will serve as the point of departure for conversation and discussion as well as further refinement of linguistic skills. May be repeated once for credit. Course conducted in French. PREREQ: FREN 102 or equivalent or PERM/INST.

#### **Upper Division**

**FREN 303 ADVANCED FRENCH CONVERSATION AND COMPOSITION (3-0-3)(F).** Expands ability in all four skills: reading, writing, speaking, and listening with special emphasis on accuracy in the formal registers of spoken and written French. Offers analysis of grammar and expansion of vocabulary through cultural readings. Discussion of topics related to contemporary French and Francophone trends. Includes frequent writing assignments. Course conducted in French. PREREQ: ENGL 102, FREN 202 and FREN 203 or PERM/INST.

**FREN 304 INTRODUCTION TO FRENCH AND FRANCOPHONE LITERATURES (3-0-3)(S).** Develops and expands composition and conversation skills through the use of literary terms and forms in French. A broad introductory course for students wishing to concentrate in culture and literature and for those students who will be teaching at any level. Includes frequent writing assignments. Course conducted in French. PREREQ: FREN 202 and FREN 203 or PERM/INST.

**FREN 307 FRENCH FOR BUSINESS (3-0-3)(F/S).** Introduction to the terminology and etiquette of business practice in the French-speaking world. Emphasis on appropriate vocabulary and structures for business letters and other forms of communication, including telephone, fax and email. Simulation of a commercial enterprise from beginning to end: creation, location, legal aspects, hiring, contracts, preparing résumés, etc. Frequent writing assignments. Course conducted in French. PREREQ: FREN 202 and FREN 203 or PERM/INST.

**FREN 376 FRENCH CULTURE AND CIVILIZATION (3-0-3)(F).** Overview of various aspects of French culture, including geography, history, social structure, art, music, and science. Includes readings, discussions, and frequent writing assignments. Course conducted in French. PREREQ: FREN 202 and FREN 203 or PERM/INST.

**FREN 404 SURVEY OF FRENCH LITERATURE (3-0-3)(F).** A global survey of the forms and genres of French literature from the Middle Ages to the present. Analysis of literary texts and their socio-historical circumstances. Frequent writing assignments. Course conducted in French. PREREQ: FREN 304.

## WORLD LANGUAGES

**FREN 412 ADVANCED FRENCH GRAMMAR AND PRONUNCIATION (3-0-3)(S).** An intensive study of the formal written and spoken registers of French. Addresses the subtleties of French phonology, morphology and syntax. Also develops awareness of and sensitivity to the variety of spoken and written registers of French. Frequent writing assignments. Course conducted in French. PREREQ: FREN 303.

**FREN 420 TOPICS IN FRENCH LITERATURE (3-0-3)(F/S)(Alternate years).** A focused study of French literature organized around a historical period, a genre, a movement, an author, or a theme. Topics will vary each time the course is taught. Frequent writing assignments. Course conducted in French. May be repeated once for credit with PERM/INST. PREREQ: FREN 304.

**FREN 430 TOPICS IN FRANCOPHONE LITERATURE (3-0-3)(F/S)(Alternate years).** A focused study of the literature of a Francophone region: North Africa, West Africa, the Caribbean, Quebec. The course will be organized around a historical period, a genre, a movement, an author, or a theme. Topics will vary each time the course is taught. Frequent writing assignments. Course conducted in French. May be repeated once for credit with PERM/INST. PREREQ: FREN 304.

**FREN 475 FRANCE TODAY (3-0-3)(S).** An analysis of contemporary problems and events in France. Readings and discussion will be interdisciplinary, drawing from social, economic, political, educational, artistic, and scientific sources. Emphasizes the comparative study of French and American customs and viewpoints in their socio-historical contexts. Course conducted in French. PREREQ: FREN 303.

**FREN 485 THE FRANCOPHONE WORLD TODAY (3-0-3)(F/S)(Alternate years).** Topics in contemporary Francophone cultures, including recent historical background, and developments in society, literature, cinema, and politics. Content will rotate to cover various Francophone regions, including 1) Quebec, 2) North Africa, and 3) West Africa and the Caribbean. Course conducted in French. May be repeated once for credit with PERM/INST. PREREQ: FREN 303.

**FREN 490 TOPICS IN FRENCH AND FRANCOPHONE CINEMA (3-2-3)(F/S)(Alternate years).** An advanced culture course using films from French and Francophone cultures for further refinement of linguistic and analytical skills. Topics will vary each time the course is taught. Film lab required. Readings will include critical articles on the films and/or literary texts from which films were adapted. Frequent writing assignments. Course conducted in French. May be repeated once for credit with PERM/INST. PREREQ: FREN 304.

**FREN 498 SENIOR SEMINAR (3-0-3)(S)(FF).** A capstone, exit requirement course. Topic chosen by the instructor on a rotating basis such as literary, linguistic, and/or social and historical subject matter. Demonstrate proficiency in the written, spoken, and cultural codes of French by means of a research paper and an expanded oral presentation on the topic of the paper. Course includes an exit oral proficiency interview. Course conducted in French. PREREQ: FREN 304 or PERM/INST. PRE/COREQ: WORLD 300.

### GERM—German

#### Lower Division

**GERM 101 ELEMENTARY GERMAN I (4-1-4)(F)(FH).** Develops beginning abilities in all four language skills: speaking, reading, writing, and listening. Offers basic study of grammatical structures and vocabulary in communicative context. Introduces students to Germanic cultures.

**GERM 102 ELEMENTARY GERMAN II (4-1-4)(S)(FH).** Continues to develop beginning abilities in all four language skills: speaking, reading, writing, and listening. Offers basic study of grammatical structures and vocabulary in a communicative context. Introduces students to Germanic cultures. PREREQ: GERM 101 or PERM/INST.

**GERM 201 INTERMEDIATE GERMAN I (3-1-3)(F)(FH).** Intended to further develop all four language skills: speaking, reading, writing, and listening. Intensive review of fundamentals of structure and vocabulary in a communicative context. Topics for conversation, reading, and writing focus on

Germanic cultures. Course conducted in German. PREREQ: GERM 102 or PERM/INST.

**GERM 202 INTERMEDIATE GERMAN II (3-1-3)(S)(FH).** Intended to further develop all four language skills: speaking, reading, writing, and listening. Intensive review of fundamentals of structure and vocabulary in a communicative context. Topics for conversation, reading, and writing focus on Germanic cultures. Course conducted in German. PREREQ: GERM 201 or PERM/INST.

**GERM 203 INTERMEDIATE GERMAN CONVERSATION (2-0-2)(F).** Cultural readings from a wide range of sources will serve as the point of departure for conversation and discussion as well as refinement of intermediate linguistic skills. Course conducted in German. May be repeated once for credit. PREREQ: GERM 102 or PERM/INST.

#### Upper Division

**GERM 303 ADVANCED GERMAN CONVERSATION AND COMPOSITION (3-0-3)(F).** Discussion of short stories, poems, songs, letters, interviews, photographs, and illustrations that trace the course of German cultural history from the Cold War to today. Designed to develop further all four language skills: reading, writing, speaking, and listening. Course conducted in German. PREREQ: ENGL 102, GERM 202 and GERM 203 or PERM/INST.

**GERM 304 INTRODUCTION TO GERMAN LITERATURE (3-0-3)(S)(Odd years).** Develops and expands composition and conversation skills through the use of German literary terms and forms. Introduction to methods of literary analysis and interpretation. Prepares students for advanced upper-division classes in German literature. Frequent writing assignments. Course conducted in German. PREREQ: GERM 202 and GERM 203 or PERM/INST.

**GERM 307 BUSINESS GERMAN (3-0-3)(S)(Odd years).** Introduction to the terminology and etiquette of business practice in the German-speaking world. Develops a basic ability to function linguistically and socially in a business setting and introduction to the appropriate terminology and structures for all forms of business communication. Special attention is given to those activities making up the Prüfung Deutsch für den Beruf. Course conducted in German. PREREQ: GERM 202 and GERM 203 or PERM/INST.

**GERM 377 GERMAN CULTURE AND CIVILIZATION (3-0-3)(S)(Even years).** Introduction to German culture and civilization from prehistoric times to the present, with a special emphasis on the time since 1800. Discussion of topics such as political and social history, the question of national identity, and the role of arts, literature, philosophy, music, and architecture. Analysis of German, Austrian, and Swiss contributions to Western civilization. Course conducted in German. PREREQ: GERM 303 or PERM/INST.

**GERM 404 SURVEY OF GERMAN LITERATURE I (3-0-3)(F)(Odd years).** Introduction to a wide range of literary texts from the Middle Ages to 1850. Analysis of not only the literature, but also the social and historical context in which this literature was produced. All genres. Course conducted in German. PREREQ: GERM 304 or PERM/INST.

**GERM 405 SURVEY OF GERMAN LITERATURE II (3-0-3)(S)(Even years).** Introduction to a wide range of literary texts from the 1850 to the present. Analysis of not only the literature, but also the social and historical context in which this literature was and is produced. All genres. Course conducted in German. PREREQ: GERM 304 or PERM/INST.

**GERM 412 ADVANCED GERMAN GRAMMAR AND SYNTAX (3-0-3)(S)(Odd years).** An intensive study of grammar and syntax rules and their application in written and spoken German. Also develops an awareness of, and sensitivity to, the variety of spoken and written registers. Frequent writing assignments. PREREQ: GERM 303 or PERM/INST.

**GERM 420 TOPICS IN GERMAN LITERATURE (3-0-3)(F/S)(Alternate years).** Discussion of topics in literature such as nation, family, minorities, or gender roles. Analysis of not only the literature, but also the social and historical context in which the literature was and is produced. May focus on a particular

period or genre. Course conducted in German. May be repeated for credit with a different topic. PREREQ: GERM 304 or PERM/INST.

**GERM 455 CONTEMPORARY GERMAN LITERATURE (3-0-3)(F) (Alternate years).** Introduction to a wide range of literary texts by contemporary German-speaking writers, covering the years 1945 to the present. Austrian, Swiss, East- and West-German writers as well as literature by migrants and ethnic minorities. Course conducted in German. PREREQ: GERM 304 or PERM/INST.

**GERM 475 THE GERMAN-SPEAKING WORLD TODAY (3-0-3)(F) (Even years).** An in-depth analysis of contemporary nonliterary events in the German-speaking world. Discussion includes social and political structure, educational systems, economic and business life, science, theater, arts, music, and recreation. Course conducted in German. PREREQ: GERM 303 or PERM/INST.

**GERM 477 WOMEN'S LITERATURE OF THE GERMAN-SPEAKING WORLD (3-0-3)(F)(Alternate years).** Introduction to a wide range of literary texts by women in the German-speaking world. Discussion of topics such as representation of women in literature and the social and historical climate in which the literature was and is produced. Course conducted in German. PREREQ: GERM 304 or PERM/INST.

**GERM 490 TOPICS IN GERMAN CINEMA (3-2-3)(F/S)(Alternate years).** Advanced course using films from German-speaking cultures for further refinement of analytical, interpretive and linguistic skills. Topics will vary. Film lab required. Readings include critical articles on the films and/or literary texts from which films were adapted. Frequent writing assignments. Course conducted in German. May be repeated once for credit with PERM/INST. PREREQ: GERM 304.

**GERM 498 SENIOR SEMINAR (3-0-3)(F)(FF).** A capstone, exit requirement course. Topic chosen by the instructor on a rotating basis such as literary, linguistic, and/or social and historical subject matter. Students will demonstrate proficiency in the written, spoken, and cultural codes of German by means of a research paper and an expanded oral presentation on the topic of the paper. Course includes an exit oral proficiency interview. Required of all German majors in their senior year. Course conducted in German. PREREQ: Senior standing or PERM/INST. PRE/COREQ: WORLD 300.

## JAPANESE—Japanese

### Lower Division

**JAPANESE 101 ELEMENTARY JAPANESE I (4-1-4)(F)(FH).** Develops beginning abilities in all four language skills: speaking, reading, writing, and listening. Offers basic study of grammatical structures and vocabulary in a communicative context. The course also introduces Katakana, Hiragana, and a limited number of Chinese characters. Course conducted in Japanese.

**JAPANESE 102 ELEMENTARY JAPANESE II (4-1-4)(S)(FH).** Continues to develop beginning abilities in all four language skills: speaking, reading, writing, and listening. Offers basic study of grammatical structures and vocabulary in a communicative context. The course also introduces hiragana, katakana, and a limited number of kanji characters. Course conducted in Japanese. Introduces students to Japanese culture. PREREQ: JAPANESE 101 or PERM/INST.

**JAPANESE 201 INTERMEDIATE JAPANESE I (4-1-4)(F)(FH).** Develops conversational skills including the casual, honorific, and humble styles of Japanese speaking. Additional emphasis placed on formal and colloquial writing through a combination of Katakana, Hiragana, and Kanji. These oral and written skills are practiced through study of Japanese culture and literature. Course conducted in Japanese. PREREQ: JAPANESE 102 or PERM/INST.

**JAPANESE 202 INTERMEDIATE JAPANESE II (4-1-4)(S)(FH).** Continues to develop conversational skills including the casual, honorific, and humble styles of Japanese speaking. Additional emphasis placed on formal and colloquial writing through a combination of Katakana, Hiragana, and Kanji. These oral and written skills are practiced through study of Japanese culture

and literature. Course conducted in Japanese. PREREQ: JAPANESE 201 or PERM/INST.

### Upper Division

**JAPANESE 301 ADVANCED JAPANESE I (4-1-4)(F/S).** Refines conversational skills including the casual, honorific, and humble styles of Japanese speaking. Additional emphasis placed on formal and colloquial writing through a combination of Katakana, Hiragana, and Kanji. These oral and written skills are practiced through study of Japanese culture and literature. Course conducted in Japanese. PREREQ: JAPANESE 202 or PERM/INST.

**JAPANESE 310 KANJI (1-0-1)(S).** Introduction of new kanji symbols. Emphasis on reading and writing kanji. PREREQ: JAPANESE 201.

## KOREAN—Korean

### Lower Division

**KOREAN 101 ELEMENTARY KOREAN I (4-1-4)(F)(FH).** Develops beginning abilities in all four language skills: speaking, reading, writing, and listening. Offers basic study of grammatical structures and vocabulary in a communicative context. Introduces aspects of Korean culture.

**KOREAN 102 ELEMENTARY KOREAN II (4-1-4)(S)(FH).** Continues to develop beginning abilities in all four language skills: speaking, reading, writing, and listening. Offers basic study of grammatical structures and vocabulary in a communicative context. Continues introducing aspects of Korean culture. PREREQ: KOREAN 101 or PERM/INST.

**KOREAN 103 ELEMENTARY KOREAN LANGUAGE AND CULTURE (3-0-3)(SU).** Conversational practice in Korean oriented to common situations in daily routines. Particular emphasis is given to phonetic accuracy and appropriate use of idioms. Field trips to practice Korean conversation in specific cultural settings. Typically taught abroad in Korea.

**KOREAN 201 INTERMEDIATE KOREAN I (4-1-4)(F)(FH).** Builds communicative skills in speaking, reading, writing, and listening. Further study of grammatical structures and vocabulary. Oral and written skills are practiced through the study of Korean culture. Course conducted primarily in Korean. PREREQ: KOREAN 102 or PERM/INST.

**KOREAN 202 INTERMEDIATE KOREAN II (4-1-4)(S)(FH).** Continues building communicative skills in speaking, reading, writing, and listening. Further study of grammatical structures and vocabulary. Oral and written skills are practiced through the study of Korean culture. Course conducted primarily in Korean. PREREQ: KOREAN 201 or PERM/INST.

**KOREAN 203 INTERMEDIATE KOREAN LANGUAGE AND CULTURE (3-0-3)(SU).** Designed to improve spoken proficiency through cultural experiences and field trips. Typically taught abroad in Korea. PREREQ: KOREAN 102.

## LATIN—Latin

### Lower Division

**LATIN 211 ELEMENTARY CLASSICAL LATIN (4-1-4)(F)(FH).** An intensive introduction to the basic vocabulary, grammar and syntax of classical Latin with emphasis on comprehension of the nominal declension and verbal conjugation forms of the language. Survey of Roman republican literature with illustrative reading passages excerpted from the ancient authors.

**LATIN 212 ADVANCED CLASSICAL LATIN (4-1-4)(S)(FH).** Second semester of the intensive introduction to the study of classical Latin with emphasis on comprehension of the advanced grammatical forms and syntactical patterns of the language. Survey of Roman imperial literature with translations and analysis of extended historical and literary texts from the ancient authors. PREREQ: LATIN 211 or PERM/INST.

### Upper Division

**LATIN 310 THE AUGUSTAN AGE (3-0-3)(F)(Odd years).** Translation and analysis of classical texts from authors of the "Golden Age of Latin Literature," such as Cicero, Caesar, Vergil, and Livy. Survey of materials and methods of teaching Latin in secondary schools. PREREQ: LATIN 212 or PERM/INST.

## WORLD LANGUAGES

**LATIN 320 EARLY CHURCH LATIN LITERATURE (3-0-3)(S)(Even years).** Translation and analysis of selections from the major writings of the Latin Fathers of the early Church, such as Tertullian, Cyprian, Lactantius, Ambrose, Jerome and Augustine. PREREQ: LATIN 212 or PERM/INST.

**LATIN 330 THE CONSTANTINIAN ERA (3-0-3)(F)(Even years).** Translation and analysis of Christian texts from the Constantinian Era, such as imperial biographies, laws, letters, and creeds. Survey of materials and methods of teaching Latin in secondary schools. PREREQ: LATIN 212 or PERM/INST.

**LATIN 340 MEDIEVAL LATIN LITERATURE (3-0-3)(S)(Odd years).** Translation and analysis of selections from significant medieval Latin writers, such as the papal biographers, Egeria, Gregory of Tours, the Venerable Bede, Einhard, Pope Gregory VII, Fulcher of Chartres, Abelard and Jacques De Vitry. PREREQ: LATIN 212 or PERM/INST.

### PORTUGUE—Portuguese

#### Lower Division

**PORTUGUE 101 ELEMENTARY PORTUGUESE I (4-1-4)(F)(FH).** Develops beginning abilities in all four language skills: speaking, reading, writing, and listening. Offers a basic study of grammatical structures and vocabulary in a communicative context. Introduces students to Portuguese-speaking cultures.

**PORTUGUE 102 ELEMENTARY PORTUGUESE II (4-1-4)(S)(FH).** Continues to develop beginning abilities in all four language skills: speaking, reading, writing, and listening. Offers a basic study of grammatical structures and vocabulary in a communicative context. Introduces students to Portuguese-speaking cultures. PREREQ: PORTUGUE 101 or satisfactory placement score.

**PORTUGUE 201 INTERMEDIATE PORTUGUESE I (4-1-4)(F)(FH).** Further development of all four language skills: speaking, reading, writing, and listening. Offers a basic study of grammatical structures and vocabulary in a communicative context. Introduces students to Portuguese-speaking cultures. PREREQ: PORTUGUE 102 or PERM/INST.

**PORTUGUE 202 INTERMEDIATE PORTUGUESE II (4-1-4)(S)(FH).** Continues to develop beginning abilities in all four language skills: speaking, reading, writing, and listening. Offers a basic study of grammatical structures and vocabulary in a communicative context. Introduces students to Portuguese-speaking cultures. PREREQ: PORTUGUE 201 or PERM/INST.

### SPAN—Spanish

#### Lower Division

**SPAN 101 ELEMENTARY SPANISH I (4-1-4)(F, S)(FH).** Develops beginning abilities in all four language skills: speaking, reading, writing, and listening. Offers a basic study of grammatical structures and vocabulary in a communicative context. Introduces students to Hispanic culture.

**SPAN 102 ELEMENTARY SPANISH II (4-1-4)(F, S)(FH).** Continues to develop beginning abilities in all four language skills: speaking, reading, writing, and listening. Offers a basic study of grammatical structures and vocabulary in a communicative context. Introduces the student to Hispanic culture. PREREQ: SPAN 101 or satisfactory placement score.

**SPAN 201 INTERMEDIATE SPANISH I (4-1-4)(F, S)(FH).** Intended to further develop all four language skills: speaking, reading, writing, and listening. Intensive review of fundamentals of structure and vocabulary in a communicative context. Topics for conversation, reading, and writing focus on Hispanic cultures. Course conducted in Spanish. PREREQ: SPAN 102 or satisfactory placement score.

**SPAN 202 INTERMEDIATE SPANISH II (4-1-4)(F, S)(FH).** Intended to further develop all four language skills: speaking, reading, writing, and listening. Intensive review of fundamentals of structure and vocabulary in a communicative context. Topics for conversation, reading, and writing focus on Hispanic culture. Course conducted in Spanish. PREREQ: SPAN 201 or satisfactory placement score.

#### Upper Division

**SPAN 300 SPANISH FOR BILINGUALS (3-0-3)(F, S).** Course content parallel to SPAN 301, but designed for heritage speakers, native speakers, and students who have spent significant periods of time living in a Hispanic country. A minimum oral proficiency level of Intermediate-High is expected for enrollment in this course. PREREQ: ENGL 102, SPAN 202 or satisfactory placement score or PERM/INST. COREQ: SPAN 302.

**SPAN 301 CONVERSATIONAL SPANISH (3-1-3)(F, S).** Expands ability in all four skills: reading, writing, speaking, and listening with specific attention to improving interpersonal communication, i.e., exchanging feelings and information and negotiating meaning with one another. Frequent speaking and writing assignments that engage conversational genres of discourse and analysis of contemporary trends in Hispanic culture through a variety of media, including film, news, podcasts, blogs, etc. Course conducted in Spanish. PREREQ: ENGL 102, SPAN 202 or satisfactory placement score or PERM/INST. COREQ: SPAN 302.

**SPAN 302 SPANISH GRAMMAR AND COMPOSITION (3-0-3)(F, S).** Expands ability in all four skills: reading, writing, speaking, and listening, with specific attention to improving presentational communication, i.e., presentation of information, concepts, and ideas to an audience of listeners or readers on a variety of topics. Frequent speaking and writing assignments that engage formal genres of discourse and analysis of contemporary trends in Hispanic culture. Course conducted in Spanish. PREREQ: SPAN 202 or satisfactory placement score or PERM/INST. COREQ: SPAN 300 or SPAN 301.

**SPAN 304 INTRODUCTION TO HISPANIC LITERATURE (3-0-3)(F, S).** Develops and expands composition and conversation skills through the use of Hispanic literary terms and forms. A broad introductory course for students wishing to concentrate in culture and literature and for those students who will be teaching at any level. Frequent writing assignments. Course conducted in Spanish. PREREQ: SPAN 300 or SPAN 301, and SPAN 302.

**SPAN 307 SPANISH FOR BUSINESS (3-0-3)(F, S).** Introduction to the terminology and etiquette of business practice in the Spanish-speaking world. Emphasis on appropriate terminology and structures for business letters and other forms of business communication. This course is highly recommended for students majoring/minoring in international business and for those who wish their Spanish major or minor emphasis to be in business. Frequent writing assignments. Course conducted in Spanish. PREREQ: SPAN 300 or SPAN 301, and SPAN 302 or PERM/INST.

**SPAN 310 ADVANCED SPANISH VOCABULARY (1-0-1)(F, S).** Covers expanded vocabulary that will improve Spanish language communication and builds the necessary vocabulary repertoire for success in upper-division courses. PREREQ: SPAN 202 or satisfactory placement score or PERM/INST.

**SPAN 311 ADVANCED CONVERSATION (1-0-1)(F, S).** Expands listening and speaking skills through intensive conversation. Vocabulary activities designed to strengthen students ability to converse about a variety of topics of general interest. Concurrent enrollment in SPAN 301 recommended. Course conducted in Spanish. (Pass/Fail.) PREREQ: SPAN 202, or satisfactory placement score or PERM/INST.

**SPAN 312 GRAMMAR REVIEW (1-0-1)(F, S).** Review of grammar concepts. Topics include ser and estar, preterite/imperfect, present and past subjunctive, and other grammar topics. Concurrent enrollment in SPAN 301 recommended. Course conducted in Spanish. (Pass/Fail.) PREREQ: SPAN 202, or satisfactory placement score or PERM/INST.

**SPAN 320 PORTUGUESE FOR SPANISH SPEAKERS (3-1-3)(F)(Even years).** Accelerated introduction to the language and culture of the Portuguese-speaking world for speakers of Spanish. Comparison of Spanish and Portuguese syntax and vocabulary. Special emphasis on Portuguese elements that are challenging for Spanish speakers. Practice with reading, writing, speaking, and listening in Portuguese. Class conducted in Portuguese. PREREQ: SPAN 202 or PERM/INST.

**SPAN 376 SPANISH PENINSULAR CULTURE AND CIVILIZATION (3-0-3)(F/S).** Spanish Peninsular culture and civilization from earliest Iberian beginnings to the present. Special attention given to the impact of Peninsular culture on the Western world. Discussions of topics such as music, economic and business environment, literature, and the Conquest. Frequent writing assignments. Course conducted in Spanish. PREREQ: SPAN 300 or SPAN 301, and SPAN 302.

**SPAN 377 LATIN AMERICAN CULTURE AND CIVILIZATION (3-0-3)(F, S).** Latin American culture and civilization from the Pre-Columbian period to the present. Discussion of topics such as an analysis of historical, political, economic, social, and cultural development in the Spanish-speaking Latin American nations, as well as the impact on the Conquest and its implications for Latin American identity formation and nationhood. Frequent writing assignments. Course conducted in Spanish. PREREQ: SPAN 300 or SPAN 301, and SPAN 302.

**SPAN 381 INTRODUCTION TO COURT INTERPRETING (3-0-3)(S).** Introduction to the three modes of interpreting: consecutive, simultaneous, and sight translation, as well as ethics, criminal procedure and legal terminology. At the end of the course the Idaho Supreme Court will administer the first phase of the Interpreters' State Certification exam. PREREQ: ENGL 102, SPAN 300 or SPAN 301, and SPAN 302.

**SPAN 382 SPANISH FOR HEALTHCARE (3-0-3)(F, S).** In this course, students will learn vocabulary and how to be culturally competent to better serve Spanish-speaking patients in a medical setting. PREREQ: ENGL 102, SPAN 300 or SPAN 301, and SPAN 302.

**SPAN 385 MEXICAN AMERICAN CULTURE AND CIVILIZATION (3-0-3)(F/S).** Mexican American culture and civilization from the conquest of Mexico and the Colonial period of New Spain to the present. Discussion of topics such as Pre-Columbian culture and its relation to Mexican American cultural practices. Analysis of the impact of the Mexican American War and the resulting incorporation of Mexican territory into the United States on Mexican American culture and identity formation from 1848 to the present. Readings may be in English and Spanish. Frequent writing assignments in Spanish. Course conducted in Spanish. PREREQ: SPAN 300 or SPAN 301, and SPAN 302.

**SPAN 402 ADVANCED SPANISH GRAMMAR AND SYNTAX (3-0-3)(S).** An intensive study of the formal written and spoken registers of Spanish. Also develops an awareness and sensitivity for the variety of spoken and written registers, especially those of Spanish in the United States. Special emphasis on writing for specific purposes. Frequent writing assignments. Course conducted in Spanish. PREREQ: SPAN 300 or SPAN 302 or PERM/INST.

**SPAN 403 SURVEY OF LATIN AMERICAN LITERATURE I (3-0-3)(F).** A global survey of the forms and genres of Latin American literature from the Pre-Columbian epoch to Modernism. Analysis of literary texts and the socio-historical circumstances in which they were produced. Frequent writing assignments. Course conducted in Spanish. Recommended: SPAN 377. PREREQ: SPAN 304.

**SPAN 404 SURVEY OF LATIN AMERICAN LITERATURE II (3-0-3)(S).** A global survey of the forms and genres of Latin American literature from Modernism to the present. Analysis of literary texts and the socio-historical circumstances in which they are produced. Frequent writing assignments. Course conducted in Spanish. Recommended: SPAN 377. PREREQ: SPAN 304.

**SPAN 405 SURVEY OF SPANISH PENINSULAR LITERATURE I (3-0-3)(F).** A global survey of the forms and genres of Spanish Peninsular literature from the Middle Ages to the end of the Golden Age. Analysis of literary texts and the socio-historical circumstances in which they were produced. Frequent writing assignments. Course conducted in Spanish. Recommended: SPAN 376. PREREQ: SPAN 304.

**SPAN 406 SURVEY OF SPANISH PENINSULAR LITERATURE II (3-0-3)(S).** A global survey of the forms and genres of Spanish Peninsular literature from the 18<sup>th</sup> century to the present. Analysis of literary texts and the

socio-historical circumstances in which they were and are produced. Frequent writing assignments. Course conducted in Spanish. Recommended: SPAN 376. PREREQ: SPAN 304.

**SPAN 415 INTRODUCTION TO SPANISH LINGUISTICS (3-0-3)(F/S).** Internal and external factors that affect the Spanish language, namely, phonology/phonetics, morphology/syntax, as well as the history of the Spanish language and social factors that contribute to the dialectal variation that is represented by Spanish speakers in Spain, Latin America and the U.S.. PREREQ: SPAN 300 or SPAN 301, and SPAN 302.

**SPAN 420 TOPICS IN SPANISH LINGUISTICS (3-0-3)(F/S).** A focused study of Spanish linguistics organized around a topic in Applied Linguistics, such as sociolinguistics, variations of Spanish spoken in Spain, Latin America, and the U.S., bilingualism, or advanced theories of Second Language Acquisition. Course conducted in Spanish. Topics will vary each time course is taught. May be repeated once for credit with permission of instructor. Recommended: SPAN 415. PREREQ: SPAN 300 or SPAN 301, and SPAN 302.

**SPAN 425 MEXICAN AMERICAN LITERATURE (3-0-3)(F/S) (Alternate years).** A survey of writings by Mexican American authors. Discussion of topics such as an analysis of Mexican American cultural and identity formation from 1848 to the present as represented in literature. Primary genres and movements, as well as gender issues within the field of Mexican American literature, with special attention given to works produced during or after the Chicano Renaissance (1960s). Frequent writing assignments in Spanish. Course conducted in Spanish. May be repeated once for credit with permission of instructor. Recommended: SPAN 385. PREREQ: SPAN 304.

**SPAN 430 TOPICS IN LATIN AMERICAN LITERATURE (3-0-3)(F/S) (Alternate years).** A focused study of Latin American literature organized around a historical period, a genre, a movement, an author, or a theme. Topics will vary each time the course is taught. Frequent writing assignments. Course conducted in Spanish. May be repeated once for credit with PERM/INST. PREREQ: SPAN 304.

**SPAN 440 TOPICS IN SPANISH PENINSULAR LITERATURE (3-0-3)(F/S)(Alternate years).** A focused study of Spanish Peninsular literature organized around a historical period, a genre, a movement, an author, or a theme. Topics will vary each time the course is taught. Frequent writing assignments. Course conducted in Spanish. May be repeated once for credit with PERM/INST. PREREQ: SPAN 304.

**SPAN 450 BASQUE LITERATURE IN SPANISH TRANSLATION (3-0-3)(F/S).** Analysis of the evolution of written literature in the Basque Country from the 15<sup>th</sup> century to the present.

**SPAN 474 SPAIN TODAY (3-0-3)(F/S).** An in-depth analysis of contemporary issues and events in Spain. Discussions and research will be interdisciplinary, drawing from social, economic, political, educational, artistic and scientific sources. Emphasizes the comparative study of Spanish and American customs and viewpoints in their socio-historical contexts. Course conducted in Spanish. Recommended: SPAN 376. PREREQ: SPAN 300 or SPAN 301, and SPAN 302.

**SPAN 475 LATIN AMERICA TODAY (3-0-3)(F/S)(Alternate years).** An in-depth analysis of contemporary nonliterary events in Latin America. Discussion includes social and political structure, educational systems, economic and business life, science, theater, arts, music, and recreation. Course conducted in Spanish. Recommended: SPAN 377. PREREQ: SPAN 300 or SPAN 301, and SPAN 302.

**SPAN 476 HUMAN RIGHTS IN LATIN AMERICA (3-0-3)(F/S)(Alternate years).** In-depth analysis and discussion includes social justice and its connection to the legal system plus its effect on social and political stability within Latin America. Course conducted in Spanish. Recommended: SPAN 377. PREREQ: SPAN 300 or SPAN 301, and SPAN 302.

## WORLD LANGUAGES

**SPAN 477 WOMEN'S LITERATURE OF THE SPANISH-SPEAKING WORLD (3-0-3)(F/S)(Alternate years).** An introduction to literature written by women in the Spanish-speaking world. All periods, all genres. Discussion of topics such as issues concerning women writers, representation of women in literature, and/or the social and historical climate in which the literature was and is produced. Frequent writing assignments. Course conducted in Spanish. May be repeated once for credit with PERM/INST. PREREQ: SPAN 304.

**SPAN 480 ADVANCED BUSINESS SPANISH (3-0-3)(F/S).** An in-depth analysis of business etiquette, practices and climate in the Spanish-speaking world. Discussions of topics such as appropriate forms of correspondence, advances in technology, the impact of the social and political climate on business practice, as well as the changing demographics of the Spanish-speaking population in the United States. Course conducted in Spanish. PREREQ: SPAN 307.

**SPAN 488 SENIOR OUTCOMES ASSESSMENT: SPANISH ORAL PROFICIENCY INTERVIEW (0-0-0)(F, S).** Required to graduate. In their last semester, senior students will take an outcome-assessment examination. (Pass/Fail.) PREREQ: Senior Standing.

**SPAN 490 TOPICS IN HISPANIC CINEMA (3-2-3)(F/S)(Alternate years).** An advanced culture course using films from Hispanic cultures for further refinement of linguistic and analytic skills. Topics will be chosen from Spanish Peninsular, Latin American, and/or U.S. Latino Cinema. Film lab required. Readings will include critical articles on the films and/or literary texts from which films were adapted. Frequent writing assignments. Course conducted in Spanish. May be repeated once for credit with PERM/INST. PREREQ: SPAN 304.

**SPAN 491 BASQUE CINEMA (3-2-3)(F/S).** Evolution of cinema in the Basque Country from 1890 to the present, including films produced under the censorship of Franco's dictatorship, during the transition to democracy, and in the contemporary Basque Country. Film lab required. Readings will include critical articles. Frequent writing assignments. Course conducted in Spanish. PREREQ: SPAN 202.

**SPAN 498 SENIOR SEMINAR (3-0-3)(F, S)(FF).** A capstone, exit requirement course. Topic chosen by the instructor on a rotating basis such as literary, linguistic, and/or social and historical subject matter. Demonstrate proficiency in the written and oral codes by means of a research paper and an expanded oral presentation on the topic of the paper. Frequent writing assignments. Course includes an exit oral proficiency interview. Course conducted in Spanish. PREREQ: SPAN 403 or SPAN 404 or SPAN 405 or SPAN 406. PRE/COREQ: WORLD 300.

### WORLD—World Languages

#### Lower Division

**WORLD 101U FIRST YEAR SEMINAR (2-0-2)(F/S).** Develops life skills and attitudes needed to set and to achieve educational and personal goals. Explores university resources, services, and policies. Emphasis placed on being a successful student in the Department of World Languages.

**WORLD 123 INTERNATIONAL PEER SERVICE LEARNING (1-0-1)(F, S).** In this Service-Learning class, students will mentor international students to help them integrate socially and culturally into the American college experience. Students will meet weekly with the international students in class to assist them with linguistic and cultural activities. May be repeated once for credit.

#### Upper Division

**WORLD 300 CAREER EXPLORATION AND PORTFOLIO DEVELOPMENT (1-0-1)(F, S).** Creation of professional portfolio to showcase language proficiency, highlight academic growth, and document specific achievements. Students will also explore career opportunities and create a tailored résumé. Project-based. PREREQ: FREN, GERM or SPAN 202, and PERM/INST.

**WORLD 301 DIGITAL SKILLS FOR LANGUAGE LEARNERS (1-0-1)(F, S).** Advances the level of digital fluency for language learners and develops skills to effectively and ethically interpret information, design content, discover

knowledge and communicate ideas in our digitally connected world. Explores a variety of digital toolsets to prepare students for assignments in advanced language courses, as well as contemporary professional life. Project-based.

**WORLD 310 JAPANESE CULTURE AND SOCIETY (3-0-3)(F/S).** Structure and substance of Japanese culture. Development of Japanese culture from prehistory to present, the development of the Japanese worldview, cultural patterns, beliefs, behaviors, values, and norms that are reflected in Japanese culture today.

**WORLD 315 JAPANESE CULTURE THROUGH FILM (3-0-3)(SU).** Screening and discussion of films from Japan for their historical, cultural, thematic, and aesthetic content in the context of modern Japanese culture. PREREQ: HIST 121 or GLOBAL 101 or GLOBAL 200 or FILM 220 or POLS 305 or POLS 306.

**WORLD 320 (POLS 433) CHINA TODAY (3-0-3)(F/S).** Survey of contemporary China including cultural and historical roots, nation-building efforts, political, economic and social systems, and domestic and foreign policies. Discussion of Hong Kong, Tibet, and Taiwan. May be taken for WORLD or POLS credit, but not both. PREREQ: HIST 121 or GLOBAL 101 or GLOBAL 200 or POLS 305 or POLS 306.

**WORLD 321 CHINESE CULTURE THROUGH FILM (3-0-3)(F/S).** Screening and discussion of films from China, Taiwan, and Hong Kong for their historical, cultural, thematic, and aesthetic content in the context of modern Chinese cultures. PREREQ: HIST 121 or FILM 220 or GLOBAL 101 or GLOBAL 200 or POLS 305 or POLS 306.

**WORLD 322 (PHIL 322) CONFUCIANISM IN CHINESE CULTURE (1-0-1)(S).** Introduction to the philosophy of Confucianism as the foundation of Chinese culture. Students will explore how Confucianism provided a framework for the development of traditional Chinese moral standards, family values, education, political philosophy, civil responsibility, and attitudes toward the natural world. May be taken for WORLD or PHIL credit, but not both.

**WORLD 323 CHINESE CULTURE AND CIVILIZATION (3-0-3)(F/S).** Multidisciplinary analysis of the richness and diversity of Chinese culture and civilization, including history, philosophy, religion, and literature. Topics include the aesthetic aspect of Chinese characters, Confucianism and Buddhism in Chinese culture, family values and filial piety, Chinese medicine and cuisine, the art of Chinese calligraphy and painting, traditional festivals, poetry, and short stories. PREREQ: Upper-division standing.

**WORLD 330 KOREA TODAY (3-0-3)(F/S).** Survey of contemporary South and North Korea including cultural and historical roots, and political, economic, and social systems. Analysis of popular culture, including K-wave film, music, and television. Issues of gender roles in Korean society will also be studied. Course conducted in English. PREREQ: HIST 121 or GLOBAL 101 or GLOBAL 200 or POLS 305 or POLS 306 or upper-division standing.

**WORLD 340 TOPICS IN FRENCH AND FRANCOPHONE LITERATURE (3-0-3)(F/S).** A focused study of French and/or Francophone literature in translation organized around a historical period, a genre, a movement, an author, or a theme. Topics will vary each time the course is offered. Frequent writing assignments. Course conducted in English. May be repeated for credit with PERM/INST. Available once as an upper-division elective toward the French major or minor if writing assignments are done in French. PREREQ: ENGL 102.

**WORLD 350 TOPICS IN GERMANIC LITERATURE (3-0-3)(F/S).** A focused study of Germanic literature in translation organized around a historical period, a genre, a movement, an author, or a theme. Topics will vary each time the course is offered. Frequent writing assignments. Course conducted in English. May be repeated for credit with PERM/INST. Available once as an upper-division elective toward the German major or minor if writing assignments are done in German. PREREQ: ENGL 102.

**WORLD 355 TOPICS IN GERMANIC CULTURE (3-0-3)(F/S)(Alternate years).** Focused study of Germanic culture organized around a specific theme.



Topics will vary each time the course is offered. Frequent writing assignments. Conducted in English. May be repeated for credit. PREREQ: ENGL 102.

**WORLD 360 TOPICS IN HISPANIC LITERATURE (3-0-3)(F/S).** A focused study of Hispanic literature in translation organized around a historical period, a genre, a movement, an author, or a theme. Topics will vary each time the course is offered. Frequent writing assignments. Course conducted in English. May be repeated for credit with PERM/INST. Available once as an upper-division elective toward the Spanish major or minor if writing assignments are done in Spanish. PREREQ: ENGL 102.

**WORLD 370 FACT/FICTION: ARTHURIAN LEGENDS (3-0-3)(SU).** Survey of factual and fictitious contexts of King Arthur with consideration of gender roles in variations of Arthurian Legends.

**WORLD 381 CONTEMPORARY ARAB WOMEN WRITERS (3-0-3)(S/SU).** Focused study of literary works by contemporary Arab women writers in English translation. Particular emphasis on analysis of gender roles and identity in the context of the authors' unique social and political environments. Frequent writing assignments. Course conducted in English.

**WORLD 410 THEORIES AND METHODS FOR TEACHING A SECOND LANGUAGE IN SECONDARY CLASSROOMS (3-0-3)(S).** An overview of theories of second language (L2) development and of changing pedagogical practices in L2 secondary classrooms. Topics include understanding how to facilitate input and output activities to foster intercultural competence and improve interpersonal, interpretive, and presentational communication at the beginner and intermediate levels. National and state content standards as well as innovative technologies to augment L2 practice will also be covered. PREREQ: 18 upper-division language credits, LING 305, or SPAN 415. COREQ: ED-CIFS 301, ED-CIFS 302, or PERM/INST.

**WORLD 420 UNDERSTANDING AND ASSESSING LITERACY FOR SECOND LANGUAGE LEARNERS (3-0-3)(F).** This course builds on the foundational concepts learned in WORLD 410 to understand, integrate, and assess literacy within the context of second language learning. Students will identify the dynamic and multi-layered definition for literacy and second language learning according to the American Council on the Teaching of Foreign Language. Specifically, they will identify how literacy is integrated into the World Readiness Standards and every fiber of the interpersonal, presentational, interpretive, and intercultural modes of communication. As such, they will learn different ways to assess second language (L2) learners' literacy across the modes of communication at beginner and intermediate proficiency levels using an Integrated Performance Assessment model. PREREQ: WORLD 410. COREQ: ED-CIFS 401, or PERM/INST.

**WORLD 490 TOPICS IN WORLD CINEMA (3-0-3)(F/S/SU).** A focused study of international film organized around a specific culture, genre, movement, historical period, director, or theme. Topics will vary each time the course is offered. Frequent writing assignments. Course conducted in English. Course may be repeated for credit, topics are not repeatable. PREREQ: ENGL 102 and upper-division standing or PERM/INST.

# Administration, Faculty, and Emeriti

## Boise State University Administration

### President

Marlene Tromp

### Interim Provost and Vice President for Academic Affairs

Tony Roark

### Vice President for Student Affairs and Enrollment Management

Leslie Webb

### Interim Vice President for University Advancement

Rick Frisch

### Vice President and Chief Financial Officer

Mark Heil

### Vice President for Campus Operations and Chief Operating Officer

Randi McDermott

### Dean of Honors College

Andrew Finstuen

### Dean of University Libraries

Tracy Bicknell-Holmes

### College of Arts and Sciences

Interim Dean, Leslie Durham

### College of Business and Economics

Dean, Mark Bannister

### College of Education

Interim Dean, Jennifer Snow

### College of Engineering

Dean, JoAnn S. Lighty

### College of Health Science

Dean, Tim Dunnagan

### College of Innovation and Design

Dean, Gordon Jones

### School of Public Service

Interim Dean, Andrew Giacomazzi

### Graduate College

Dean, Tammi Vacha-Haase

### Division of Extended Studies

Dean, Mark Wheeler

## Tenured and Tenure Track Faculty

Note: The date listed is the year of first appointment.

| <b>A</b>  |      |
|---|------|
| Aagard, Mary  | 2011 |
| Assistant Professor, Head, Access Services, Albertsons Library; MS, Indiana University                    |      |
| Adams, Karin  | 2016 |
| Assistant Professor, Community and Environmental Health; PhD, Colorado State University                   |      |
| Ahmed, Saleh  | 1996 |
| Assistant Professor, SPS Centers/Programs; PhD, University of Arizona                                     |      |
| Ahmed-Zaid, Said  | 2019 |
| Associate Professor, Electrical and Computer Engineering; PhD, University of Illinois at Urbana-Champaign |      |
| Ahten, Sara M.  | 2002 |
| Associate Professor, School of Nursing; MS, St. Joseph's College  |      |
| Albig, Allan  | 2012 |
| Associate Professor, Biological Sciences; PhD, Washington State University                                |      |
| Alderden, Jenny   | 2017 |
| Assistant Professor, School of Nursing; PhD, University of Utah   |      |
| Alexander, Eric   | 2017 |
| Associate Professor, Music; DMA, Boston University  |      |
| Allen, Kyle   | 2018 |
| Assistant Professor, Finance; PhD, Texas Tech University  |      |
| Allen, Michael  | 2012 |
| Associate Professor, Program Lead, Political Science; PhD, Binghamton University                          |      |
| Allen, Robin W.   | 1997 |
| Associate Professor, Social Work; PhD, University of Illinois at Urbana-Champaign                         |      |
| Andersen, Timothy   | 2001 |
| Professor, Computer Science; PhD, Brigham Young University  |      |
| Anderson, Cheryl  | 2019 |
| Associate Professor, Anthropology; PhD, University of Nevada, Las Vegas                                   |      |
| Anderson, Jeffrey M.  | 1986 |
| Associate Professor, Respiratory Care; MA, Boise State University   |      |
| AnnieMargaret, Jill   | 2006 |
| Professor, Art; MFA, California State University, Long Beach  |      |

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|---|------|
| Araújo, Kathleen  | 2018 |
| Associate Professor, Research and Economic Development; PhD, Massachusetts Institute of Technology      |      |
| Arispe, Kelly   | 2012 |
| Assistant Professor, World Languages; PhD, University of California, Davis                              |      |
| Armstrong, Michelle   | 2005 |
| Associate Professor, Librarian, Albertsons Library; MS, University of North Texas                       |      |
| Ashley, Amanda G.   | 2011 |
| Associate Professor, Program Lead, Public Policy and Administration; PhD, University Of Pennsylvania    |      |
| Ashley, Seth D.   | 2011 |
| Associate Professor, Communication; PhD, University of Missouri, Columbia                               |      |
| Ashworth, Lonny J.  | 1977 |
| Professor, Respiratory Care; MEd, College of Idaho  |      |
| Atkins, Leslie  | 2016 |
| Professor, Interim Chair, Curriculum, Instruction and Foundational Studies; PhD, University of Maryland |      |
| Atlakson, Philip  | 1985 |
| Professor, Theatre Arts; MA, State University of New York at Binghamton                                 |      |
| Ausman, Kevin   | 2014 |
| Assistant Professor, Chemistry and Biochemistry; PhD, Rice University                                   |      |

### B

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| Babinkostova, Liljana  | 2007 |
| Professor, Mathematics; PhD, University of St. Cyril and Methodius, Macedonia                |      |
| Babkik, Iryna  | 2019 |
| Assistant Professor, Psychological Sciences; PhD, University of North Carolina at Greensboro |      |
| Bacon, Stephanie   | 1996 |
| Professor, Art; MFA, Brooklyn College  |      |
| Baek, Youngkyun  | 2010 |
| Professor, Educational Technology; PhD, Georgia State University                             |      |
| Bailey, Cristina   | 2017 |
| Assistant Professor, Accountancy; PhD, Texas Tech University                                 |      |

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|---|------|
| Baker, Ed   | 2002 |
| Professor, Director, Center for Health Policy, Community and Environmental Health; PhD, Temple University |      |
| Baldwin, John B.  | 1971 |
| Professor, Music; PhD, Michigan State University  |      |
| Baltzell, Michael L.  | 1991 |
| Professor, Theatre Arts; MFA, Idaho State University  |      |
| Bannister, Mark   | 2020 |
| Dean, Business and Economics, Professor, Management; MA, JD, University of Kansas                         |      |
| Barber, Jesse R.  | 2011 |
| Associate Professor, Biological Sciences; PhD, Wake Forest University                                     |      |
| Barney Smith, Elisa   | 1999 |
| Professor, Electrical and Computer Engineering; PhD, Rensselaer Polytechnic Institute                     |      |
| Basu Thakur, Gautam   | 2011 |
| Associate Professor, English; DML, University of Illinois at Urbana-Champaign                             |      |
| Baxter, Ryan  | 2014 |
| Associate Professor, Accountancy; PhD, Case Western Reserve University                                    |      |
| Beauchemin, James   | 2017 |
| Assistant Professor, Social Work; PhD, The Ohio State University  |      |
| Bechar, Marc Joseph   | 1983 |
| Distinguished Professor, Biological Sciences; PhD, Washington State University                            |      |
| Belfy, Jeanne Marie   | 1983 |
| Professor, Music; PhD, University of Kentucky   |      |
| Bellinger, Nisha  | 2017 |
| Assistant Professor, Political Science; PhD, University of Missouri                                       |      |
| Belthoff, James   | 1993 |
| Professor, Biological Sciences; PhD, Clemson University   |      |
| Benner, Shawn   | 2004 |
| Associate Dean, Innovation and Design, Professor, Geosciences; PhD, University of Waterloo                |      |
| Berg, Lynn R.   | 1984 |
| Professor, Music; DMA, University of Wisconsin, Madison   |      |
| Bicknell-Holmes, Tracy  | 2013 |
| Dean, Albertsons Library, Professor; MBA, MLS, University of Nebraska, University of Illinois             |      |

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|--|---|--|--|
| Bieter Jr., John ..... 2004<br>Professor, Director, Foundational Studies, History;<br>PhD, Boston College  | Buerki, Sven ..... 2017<br>Assistant Professor, Biological Sciences; PhD, University<br>of Neuchâtel, Switzerland                               | Chen, Kelly ..... 2015<br>Assistant Professor, Economics; PhD, Dalhousie<br>University, Nova Scotia, Canada  |  |
| Birdsall, Christopher ..... 2017<br>Assistant Professor, Public Policy and Administration;<br>PhD, American University   | Buffenbarger, James ..... 1991<br>Associate Professor, Computer Science; PhD, University<br>of California, Davis                                | Chenoweth, Timothy C. .... 2003<br>Associate Professor, Information Technology and<br>Supply Chain Management; PhD, Washington State<br>University |  |
| Bittleston, Leonora ..... 2020<br>Assistant Professor, Biology; PhD, Harvard University  | Buie, Zachary ..... 2019<br>Associate Dean, Assistant Professor, Music; DMA,<br>University of Utah  | Chiasson, John ..... 2006<br>Associate Professor, Electrical and Computer<br>Engineering; PhD, University of Minnesota                             |  |
| Black, Geoffrey A. .... 2000<br>Professor, Economics; PhD, University of Washington  | Bullock, Douglas ..... 1995<br>Associate Dean, Arts and Sciences, Professor,<br>Mathematics; PhD, University of Iowa                            | Ching, Yu-hui ..... 2013<br>Associate Professor, Educational Technology; PhD,<br>Pennsylvania State University                                     |  |
| Black, Meredith ..... 2012<br>Assistant Professor, International Business; PhD,<br>University of Bern  | Burkhart, Ross E. .... 1997<br>Professor, PhD Director, Political Science; PhD,<br>University of Iowa   | Chittoori, Bhaskar ..... 2013<br>Assistant Professor, Civil Engineering; PhD, University<br>of Texas at Arlington                                  |  |
| Blain, Michael ..... 1982<br>Professor, Sociology; PhD, University of Colorado,<br>Boulder   | Burns, Joie ..... 1994<br>Associate Professor, Radiologic Sciences; MS, Boise<br>State University   | Cho, Daehwan ..... 2010<br>Associate Professor, Communication; MFA, Southern<br>Illinois University Carbondale                                     |  |
| Blakeslee, Laurie ..... 2000<br>Associate Professor, Art; MFA, University of Arizona   | <b>C</b>  |  |  |
| Boedeker, Peter ..... 2018<br>Assistant Professor, Curriculum Instruction and<br>Foundational Studies; PhD, University of North Texas,<br>Denton                       | Calhoun, Donna ..... 2010<br>Associate Professor, Mathematics; PhD, University of<br>Washington   | Chonody, Jill ..... 2017<br>Associate Professor, Social Work; PhD, Florida State<br>University   |  |
| Boggs, Kyle ..... 2018<br>Assistant Professor, English; PhD, University of Arizona   | Callahan, Michael ..... 2015<br>Assistant Professor, Chemistry, PhD, University of<br>California, Santa Barbara                                 | Chyung, Yonnie ..... 1999<br>Professor, Organizational Performance and Workplace<br>Learning; EdD, Texas Tech University                           |  |
| Boothe, Diane ..... 2005<br>Professor, Literacy, Language, and Culture; PhD,<br>University of Southern California  | Campbell, Ann ..... 2003<br>Associate Professor, English; PhD, Emory University   | Clare, Ralph ..... 2011<br>Associate Professor, English; PhD, State University of<br>New York at Stony Brook                                       |  |
| Bostaph, Lisa G. .... 2003<br>Professor, Graduate Coordinator, Criminal Justice;<br>PhD, University of Cincinnati  | Campbell, Cynthia ..... 2013<br>Associate Professor, Director, Family Studies,<br>Psychological Sciences; PhD, Pennsylvania State<br>University | Clemens, John ..... 2017<br>Assistant Professor, Mathematics; PhD, University of<br>California, Berkeley   |  |
| Boucher, Teresa ..... 1994<br>Professor, World Languages; PhD, Princeton University  | Campbell, Kris ..... 2005<br>Professor, Electrical and Computer Engineering; PhD,<br>University of California, Davis                            | Cline, Casey ..... 1998<br>Associate Professor, Chair, Construction Management;<br>PhD, University of Idaho  |  |
| Brady, Lisa Marie ..... 2003<br>Professor, History; PhD, University of Kansas  | Cannon, Ryan ..... 2014<br>Associate Professor, Communication; MFA, University<br>of Texas at Austin  | Colson, Adam ..... 2016<br>Assistant Professor, Chemistry; PhD, Rice University  |  |
| Brand, Brittany ..... 2013<br>Assistant Professor, Geosciences; PhD, Arizona State<br>University   | Candley, Kurtis ..... 2013<br>Associate Professor, Electrical and Computer<br>Engineering; PhD, University of Texas at Dallas                   | Conger, Scott ..... 2013<br>Assistant Professor, Kinesiology; PhD, University of<br>Tennessee  |  |
| Brandt, Jodi ..... 2015<br>Assistant Professor, College of Innovation and Design;<br>PhD Systems, PhD, University of Wisconsin, Madison                                | Carman, William ..... 1998<br>Professor, Art; MFA, Brigham Young University   | Conley-Estrada, Rosaura ..... 2009<br>Associate Professor, Sociology; PhD, University of<br>California, Irvine                                     |  |
| Breitkreuz, Karen R. .... 2011<br>Associate Professor, School of Nursing; EdD, Teachers<br>College Columbia University   | Carney, Michele ..... 2012<br>Assistant Professor, Curriculum Instruction and<br>Foundational Studies; PhD, University of Idaho                 | Connor, Kelley ..... 2006<br>Associate Professor, School of Nursing; MS, University<br>of Minnesota  |  |
| Brendefur, Jonathan ..... 2000<br>Professor, Director, Institute for DMT, Curriculum<br>Instruction and Foundational Studies; PhD, University<br>of Wisconsin, Madison | Carter, Deborah ..... 2008<br>Professor, Interim Associate Dean, Education, Early and<br>Special Education; PhD, University of Oregon           | Cordova, Memo ..... 2003<br>Associate Professor, Librarian, Albertsons Library;<br>MLIS, University of Washington                                  |  |
| Brill, Stephen H. .... 1998<br>Associate Professor, Mathematics; PhD, University of<br>Vermont   | Carter, Hannah ..... 2018<br>Assistant Professor, Literacy, Language and Culture;<br>PhD, University of Nevada, Reno                            | Corless-Smith, Martin ..... 2000<br>Professor, English; PhD, University of Utah  |  |
| Brin, Beth L. .... 1995<br>Associate Professor, Librarian, Albertsons Library; MLS,<br>San Jose State University   | Carter, Neil ..... 2015<br>Assistant Professor, College of Innovation and Design;<br>PhD, Michigan State University                             | Cornell, Kenneth A. .... 2004<br>Professor, Chemistry and Biochemistry; PhD, Oregon<br>Health and Sciences University                              |  |
| Brown, Deana ..... 2014<br>Assistant Professor, Librarian, Albertsons Library; MLS,<br>Emporia State University  | Casper, Mary Frances ..... 2006<br>Associate Professor, Communication; PhD, North<br>Dakota State University                                    | Corral, Karen ..... 2008<br>Associate Professor, Chair, Information Technology and<br>Supply Chain Management; PhD, Arizona State<br>University    |  |
| Brown, Eric ..... 2006<br>Associate Professor, Chemistry and Biochemistry; PhD,<br>Oregon State University   | Castel, Matthew ..... 2016<br>Assistant Professor, Information Technology and Supply<br>Chain Management; PhD, Michigan State University        | Cortens, Andrew ..... 1996<br>Associate Professor, Chair, Philosophy; PhD, Syracuse<br>University  |  |
| Brown, Marcellus ..... 1989<br>Associate Professor, Music; MM, University of<br>Michigan   | Castellano, Rebecca ..... 2013<br>Assistant Professor, Sociology; PhD, The Ohio State<br>University   | Coskey, Samuel ..... 2012<br>Associate Professor, Mathematics; PhD, Rutgers<br>University  |  |
| Brown, Tyler ..... 2015<br>Assistant Professor, Kinesiology-Biomechanics; PhD,<br>University of Michigan   | Caughlin, Trevor ..... 2017<br>Assistant Professor, Biological Sciences, PhD, University<br>of Florida  | Cowan, Mark ..... 2004<br>Professor, Accountancy; JD, University of Connecticut  |  |
| Browning, Jim ..... 2006<br>Associate Professor, Chair, Electrical and Computer<br>Engineering; PhD, University of Wisconsin, Madison                                  | Cavey, Laurie ..... 2009<br>Associate Professor, Mathematics; PhD, North Carolina<br>State University   | Crowley, Stephen J. .... 2006<br>Associate Professor, Philosophy; PhD, Indiana<br>University   |  |
| Buchanan, Mark A. .... 1996<br>Professor, Director, International Business; JD,<br>University of Nebraska, Lincoln   | Champion, Joe ..... 2013<br>Associate Professor, Mathematics; PhD, University of<br>Northern Colorado   | Curl, Cynthia L. .... 2014<br>Assistant Professor, Community and Environmental<br>Health; PhD, University of Washington                            |  |
| Budde, James ..... 1994<br>Professor, Art; MFA, California State University,<br>Fullerton  | Charlier Jr., Henry A. .... 2000<br>Associate Professor, Chemistry and Biochemistry; PhD,<br>Medical College of Wisconsin                       | Cutchin, Steven ..... 2013<br>Associate Professor, Computer Science; PhD, Purdue<br>University   |  |
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| Durham, Leslie Atkins ..... 2001<br>Interim Dean, Arts and Sciences, Professor, Theatre<br>Arts; PhD, University of Kansas                         | Forbey, Jennifer ..... 2008<br>Professor, Biological Sciences; PhD, University of Utah   | Gill, Jill K. .... 2000<br>Professor, History; PhD, University of Pennsylvania   |
| Dworak, Ellie ..... 2008<br>Associate Professor, Librarian, Albertsons Library; MS,<br>University of Michigan                                      | Ford, Jeremy ..... 2015<br>Assistant Professor, Early and Special Education, PhD,<br>University of Iowa, Iowa City   | Gillespie, Lane ..... 2013<br>Associate Professor, Criminal Justice; PhD, University<br>of South Florida   |
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| Earley, Mary C. .... 2010<br>Professor, Art; MFA, University of Wisconsin,<br>Milwaukee  | Fox, Francis ..... 1999<br>Professor, Art; MFA, University of Wyoming  | Goodman, James Anthony ..... 2006<br>Associate Professor, Music; EdD, University of Illinois<br>at Urbana-Champaign  |
| Egginton, Jared ..... 2017<br>Assistant Professor, Finance; PhD, University of<br>Mississippi  | Fragkias, Michail ..... 2014<br>Associate Professor, Economics; PhD, Clark University  | Gooden, Eric ..... 2015<br>Assistant Professor, Accountancy; PhD, Florida State<br>University  |
| Ekstrand, Michael ..... 2016<br>Assistant Professor, Computer Science; PhD, University<br>of Minnesota, Minneapolis                                | Frary, Megan ..... 2005<br>Associate Professor, Materials Science and Engineering;<br>PhD, Massachusetts Institute of Technology                                     | Goulko, Olga ..... 2018<br>Assistant Professor, Physics; PhD, University of<br>Cambridge, England  |
| Elder, Thomas ..... 2001<br>Associate Professor, Art; MFA, Iowa State University   | Fredericksen, Elizabeth ..... 1998<br>Professor, Director, Master of Public Administration,<br>Public Policy and Administration; PhD, Washington<br>State University | Graugnard, Elton ..... 2009<br>Associate Professor, Materials Science and Engineering;<br>PhD, Purdue University   |
| Enderlin, Elynn ..... 2018<br>Assistant Professor, Geosciences; PhD, The Ohio State<br>University  | Fredricksen, Jim ..... 2008<br>Associate Professor, English; MA, Michigan State<br>University  | Gray, Lori ..... 2017<br>Assistant Professor, Music; DMA, Arizona State<br>University  |
| Enright, Esther ..... 2016<br>Assistant Professor, Curriculum, Instruction, and<br>Foundational Studies; PhD, University of Michigan,<br>Ann Arbor | Freemuth, John C. .... 1986<br>Distinguished Professor, Political Science; PhD,<br>Colorado State University   | Grevatt, Heather ..... 2016<br>Assistant Professor/Librarian, Albertsons Library; MS,<br>San Jose State University   |
| Erpelding, Chad W. .... 2010<br>Professor, Art; MFA, Southern Illinois University<br>Carbondale  | Friesen, Norm ..... 2013<br>Professor, Educational Technology; PhD, University of<br>Alberta   | Grusiecki, Tomasz ..... 2017<br>Assistant Professor, Art; PhD, McGill University,<br>Montreal, Canada  |
| Esp, Susan ..... 2000<br>Associate Professor, Community and Environmental<br>Health; PhD, University of Idaho                                      | Fry, Phillip C. .... 1987<br>Professor, Information Technology and Supply Chain<br>Management; PhD, Louisiana State University                                       | Guarino, Joseph ..... 1991<br>Professor, Mechanical and Biomedical Engineering;<br>PhD, University of Idaho  |
| Estrada, David ..... 2013<br>Associate Professor, Materials Science and Engineering;<br>PhD, University of Illinois at Urbana-Champaign            | Fry, Sara ..... 2008<br>Professor, Curriculum Instruction and Foundational<br>Studies; PhD, University of Wyoming  | Guo, Diabao ..... 2018<br>Assistant Professor, Literacy, Language and Culture;<br>PhD, Texas A&M University  |
| Estrem, Heidi ..... 2006<br>Professor, Director, First-Year Writing Program,<br>English; PhD, University of Nevada, Reno                           | Fuller, Christie ..... 2016<br>Assistant Professor, Information Technology and Supply<br>Chain Management; PhD, Oklahoma State University                            | <b>H</b>   |
| <b>F</b>   | <b>G</b>   | Haan, Lutana ..... 2003<br>Associate Professor, Chair, Respiratory Care; MHS,<br>Boise State University  |
| Fails, Jerry ..... 2016<br>Associate Professor, Computer Science; PhD, University<br>of Maryland   | Gabbard, David ..... 2013<br>Professor, Curriculum Instruction and Foundational<br>Studies; EdD, University of Cincinnati  | Hagenah, Sara ..... 2015<br>Assistant Professor, Curriculum Instruction and<br>Foundational Studies; PhD, University of Washington                                   |
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| Hall, Stephanie ..... 2019<br>Assistant Professor, Kinesiology; PhD, University of<br>Northern Colorado                                      | Hillard, Thomas J. .... 2006<br>Associate Professor, English; PhD, University of Arizona   | Hyatt, Troy ..... 2008<br>Associate Professor, Chair, Accountancy; Finance; PhD,<br>University of Arizona                                    |
| Han, Soo Jeoung (Crystal) ..... 2017<br>Assistant Professor, Organizational Performance and<br>Workplace Learning; PhD, Texas A&M University | Hillis, Vicken ..... 2016<br>Assistant Professor, College of Innovation and Design;<br>PhD Systems, PhD, University of California, Davis                     | <b>I</b>   |
| Hamby, Anne ..... 2019<br>Assistant Professor, Marketing; PhD, Virginia<br>Polytechnic Institute and State University                        | Hindrichs, Cheryl ..... 2006<br>Associate Professor, English; PhD, The Ohio State<br>University  | Isbell, Matthew ..... 2016<br>Assistant Professor, Communication; PhD, University<br>of Texas, Austin  |
| Hamilton, Robert W. .... 1995<br>Associate Professor, Civil Engineering; PhD, University<br>of Maine   | Hodges, Brian ..... 2008<br>Associate Professor, Music; DMA, University of North<br>Carolina at Greensboro   | Islam, Samia ..... 2004<br>Associate Professor, Economics; PhD, West Virginia<br>University  |
| Hammons, David ..... 2014<br>Associate Professor, Kinesiology; EdD, Boise State<br>University  | Holmes, Janet ..... 1999<br>Professor, English; MFA, Warren Wilson College   | <b>J</b>   |
| Hampikian, Greg ..... 2004<br>Professor, Biological Sciences; PhD, University of<br>Connecticut  | Holmes, Randall ..... 1991<br>Professor, Mathematics; PhD, State University of New<br>York at Binghamton   | Jackson, Alexander P. V. .... 2010<br>Associate Professor, Philosophy; PhD, Rutgers<br>University  |
| Hampshire, Patricia ..... 2011<br>Associate Professor, Interim Chair, Early and Special<br>Education; PhD, Indiana University                | Honts, Charles R. .... 1995<br>Professor, Psychological Sciences; PhD, University of<br>Utah   | Jackson, Brian ..... 2014<br>Associate Professor, Physics; PhD, University of Arizona  |
| Hanna, Charles B. .... 1996<br>Professor, Chair, Physics; PhD, Stanford University   | Hopping, Kelly ..... 2018<br>Assistant Professor, Human Environment Systems;<br>PhD, Colorado State University   | Jain, Amit ..... 1994<br>Associate Professor, Chair, Computer Science; PhD,<br>University of Central Florida                                 |
| Hansen, Mark R. .... 2007<br>Professor, Music; DMA, University of North Texas  | Hou, Yantian ..... 2016<br>Assistant Professor, Computer Science; PhD, Utah State<br>University  | Jankowski, Eric ..... 2015<br>Assistant Professor, Materials Science and Engineering;<br>PhD, University of Michigan, Ann Arbor              |
| Hansen, Marla ..... 1991<br>Professor, Theatre Arts; MFA, University of Utah   | Hsu, Yu-Chang ..... 2010<br>Associate Professor, Educational Technology; PhD,<br>Pennsylvania State University-York  | Jaques, Brian ..... 2018<br>Assistant Professor, Materials Science and Engineering;<br>PhD, Boise State University                           |
| Hansen, Matthew ..... 2005<br>Associate Professor, English; PhD, University of<br>Nebraska, Lincoln  | Hu, Jingxian ..... 2018<br>Assistant Professor, Economics; PhD, University of<br>Kansas  | Jebe, Ruth ..... 2016<br>Assistant Professor, Management; MS, JD, University of<br>Denver; University of Minnesota Law School                |
| Hansen, Zeynep K. .... 2007<br>Vice Provost for Academic Planning, Professor,<br>Economics; PhD, University of Arizona                       | Huang, Qiping (Jimmy) ..... 2018<br>Assistant Professor, Finance; PhD, University of<br>Kentucky   | Jirak, James ..... 1994<br>Associate Professor, Music; D. A., University of<br>Northern Colorado   |
| Hardin, Amy Louise ..... 2007<br>Assistant Professor, School of Nursing; MN,<br>Washington State University                                  | Hubbard, Monica ..... 2014<br>Assistant Professor, Public Policy and Administration;<br>PhD, Oregon State University   | Johnson, Benjamin ..... 2018<br>Assistant Professor, Electrical and Computer<br>Engineering; PhD, Cornell University                         |
| Harlander, Jens ..... 2007<br>Associate Professor, Mathematics; PhD, University of<br>Oregon   | Hubbert, Ann ..... 2011<br>Divisional Dean, School of Nursing, Professor, School<br>of Nursing; PhD, University of Nebraska Medical<br>Center                | Johnson, Evelyn Sue ..... 2007<br>Professor, Director, Pesky Learning Center, Early and<br>Special Education; EdD, University of Washington  |
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| Harvey, Keith ..... 2000<br>Professor, Finance; PhD, University of Tennessee   | Hughes, William ..... 2008<br>Associate Professor, Director, Micron School of<br>Materials Sciences and Engineering; PhD, Georgia<br>Institute of Technology | Johnson, Tyler ..... 2008<br>Professor, Kinesiology; PhD, Arizona State University   |
| Harvey, Samantha C. .... 2010<br>Professor, English; PhD, Cambridge University   | Humphrey, Michael John ..... 2007<br>Associate Professor, Early and Special Education; EdD,<br>University of Northern Colorado                               | Jones, Niusha ..... 2019<br>Assistant Professor, Marketing; PhD, University of<br>North Texas  |
| Hausegger, Lori J. .... 2005<br>Associate Professor, Coordinator, Political Science;<br>PhD, Ohio State University                           | Hung, Jui-long ..... 2007<br>Professor, Educational Technology; EdD, Texas Tech<br>University  | Jorcyk, Cheryl ..... 1997<br>Professor, Biological Sciences; PhD, Johns Hopkins<br>University  |
| Hayden, Eric ..... 2013<br>Associate Professor, Biological Sciences; PhD, Portland<br>State University                                       | Hunt, Charles ..... 2019<br>Assistant Professor, Political Science; PhD, University of<br>Maryland College Park  | Jorgensen, Cody ..... 2015<br>Assistant Professor, Criminal Justice; PhD, University of<br>Texas at Dallas                                   |
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| Herbeck, Jason R. .... 2005<br>Professor, Chair, World Languages; PhD, University of<br>Wisconsin, Madison                                   | Huntsman, Sherena ..... 2019<br>Assistant Professor, English; PhD, Utah State University   | Kaiser, Uwe ..... 2001<br>Associate Professor, Chair, Mathematics; PhD, Siegen<br>University   |
| Hernandez, Jairo E. .... 2011<br>Assistant Professor, Civil Engineering; PhD, Utah State<br>University                                       | Hurley, Michael ..... 2014<br>Assistant Professor, Materials Science and Engineering;<br>PhD, University of Virginia, Charlottesville                        | Kandadai, Nirmala ..... 2019<br>Assistant Professor, Electrical and Computer<br>Engineering; PhD, University of Texas at Austin              |
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 Associate Professor, Director, Public Policy Center, Public Policy and Administration; PhD, Texas A&M University

Lingwall, Jeff ..... 2019  
 Assistant Professor, Management; PhD, Carnegie Mellon University

Long, Min ..... 2016  
 Assistant Professor, Physics; PhD, Cornell University

Loo, Sin Ming ..... 2003  
 Professor, Electrical and Computer Engineering; PhD, University of Alabama in Huntsville

Loucks, Christine ..... 1989  
 Professor, Chair, Economics; PhD, Washington State University

Lowe, Scott E. .... 2006  
 Associate Dean, Graduate College, Professor, Economics; PhD, University of California, Santa Barbara

Lowenthal, Patrick ..... 2011  
 Associate Professor, Educational Technology; PhD, University of Colorado, Denver

Lu, Yang (Frank) ..... 2013  
 Associate Professor, Civil Engineering; PhD, Virginia Polytechnic Institute and State University

Lubamersky, Lynn ..... 2001  
 Associate Professor, History; PhD, Indiana University

Lucas, Shelley Marie ..... 2001  
 Associate Professor, Kinesiology; PhD, University of Iowa

Lujan, Trevor ..... 2011  
 Associate Professor, Mechanical and Biomedical Engineering; PhD, University of Utah

Lunstrum, Elizabeth ..... 2019  
 Associate Professor, SPS Centers/Programs; PhD, University of Minnesota

Lyons, Jeffrey ..... 2015  
 Assistant Professor, Political Science; PhD, University of Colorado, Boulder

### M

MacDonald, Jason B. .... 2000  
 Associate Professor, Marketing; PhD, University of Texas-Pan American

Macomb, Daryl J. .... 2001  
 Associate Professor, Physics; PhD, Iowa State University

Macy, Rosemary ..... 1999  
 Associate Professor, School of Nursing; PhD, University of Idaho

Madden, Terry Jo ..... 1983  
 Associate Professor, Librarian, Albertsons Library; MLS, University of Washington

Madsen-Brooks, Leslie J. .... 2010  
 Associate Professor, History; PhD, University of California, Davis

Magen, Randy ..... 2015  
 Professor, Director, School of Social Work, Social Work; PhD, University of Wisconsin, Madison

Maher, Liam ..... 2018  
 Assistant Professor, Management; PhD, Florida State University

Mainali, Laxman ..... 2019  
 Assistant Professor, Physics; PhD, University at Albany, State University of New York

Mamivand, Mahmood ..... 2017  
 Assistant Professor, Mechanical and Biomedical Engineering; PhD, Mississippi State University

Mallette, Jennifer ..... 2015  
 Assistant Professor, English; PhD, University of Arkansas

Mann, Michael ..... 2018  
 Associate Professor, Community and Environmental Health; PhD, University of Florida

Marker, Anthony (Tony) ..... 2005  
 Professor, Chair, Organizational Performance and Workplace Learning; PhD, Indiana University

Marshall, Hans-Peter ..... 2008  
 Associate Professor, Geosciences; PhD, University of Colorado, Boulder

Martin, Eric ..... 2016  
 Assistant Professor, Kinesiology; PhD, Michigan State University

Martz, Camille M. .... 2006  
 Associate Professor, School of Nursing; MS, Gonzaga University

Masarik, April ..... 2015  
 Assistant Professor, Psychological Sciences; PhD, University of California, Davis

Mattingly, Shaunn ..... 2014  
 Associate Professor, Management; PhD, University of Louisville

McBrayer, Garrett A. .... 2015  
 Assistant Professor, Finance; PhD, University of Arkansas

McChesney, John W. .... 1995  
 Associate Professor, Kinesiology; PhD, University of Oregon

McClain, Lisa ..... 2001  
 Professor, Director, Gender Studies, History; PhD, University of Texas at Austin

mcclellan, erin ..... 2009  
 Associate Professor, Communication; PhD, University of Colorado, Boulder

McClellan, John G. .... 2009  
 Associate Professor, Communication; PhD, University of Colorado, Boulder

McDonald, Theodore W. .... 2001  
 Professor, Director, Master of Health Science, Psychology; PhD, University of Wisconsin, Milwaukee

McDougal, Owen ..... 2006  
 Professor, Chair, Chemistry and Biochemistry; PhD, University of Utah

McIntosh, John ..... 2005  
 Associate Professor, Management; PhD, University of Illinois at Urbana-Champaign

McNamara, James P. .... 1997  
 Professor, Chair, Geosciences; PhD, University of Alaska Fairbanks

- McNatt, Donald B. .... 2010  
Associate Professor, Management; PhD, University of Iowa
- McNeil, Larry ..... 1999  
Professor, Art; MFA, University of New Mexico
- Mead, Jodi L. .... 2000  
Professor, Mathematics; PhD, Arizona State University
- Meftahi, Ida ..... 2020  
Assistant Professor, History; PhD, University of Toronto
- Mehrpouyan, Hani ..... 2015  
Associate Professor, Electrical and Computer Engineering; PhD, Queen's University, Ontario, Canada
- Mehrpouyan, Hoda ..... 2016  
Assistant Professor, Computer Science; PhD, Oregon State University
- Meregaglia, Alessandro ..... 2016  
Assistant Professor/Librarian, Albertsons Library; MLS, Indiana University
- Midgett, Aida ..... 2009  
Associate Professor, Chair, Counselor Education; EdD, Northern Arizona University
- Mikesell, Dylan ..... 2015  
Associate Professor, Geosciences; PhD, Boise State University
- Miller, Nicholas ..... 1993  
Professor, Chair, History; PhD, Indiana University
- Miller, Raissa ..... 2014  
Assistant Professor, Counselor Education; PhD, University of North Texas
- Miller, Sondra M. .... 2006  
Associate Professor, Civil Engineering; PhD, University of Iowa
- Mishra, Deb ..... 2014  
Associate Professor, Civil Engineering; PhD, University of Illinois at Urbana-Champaign
- Mitchell, Kristen A. .... 2008  
Associate Professor, Biological Sciences; PhD, Washington State University
- Mitkova, Maria ..... 2006  
Professor, Electrical and Computer Engineering; PhD, University of Chemical Technology and Metallurgy, Bulgaria
- Mo, Ya ..... 2018  
Assistant Professor, Curriculum Instruction and Foundational Studies; PhD, Michigan State University
- Moll, Amy J. .... 2000  
Professor, Materials Science and Engineering; PhD, University of California, Berkeley
- Molumby, Nicole ..... 2005  
Professor, Music; DMA, The Ohio State University
- Moneyhun, Clyde ..... 2010  
Professor, Director, Writing Center, English; PhD, University of Arizona
- Montrose, Luke ..... 2018  
Assistant Professor, Community and Environmental Health; PhD, University of Montana
- Moore, Rick C. .... 1994  
Professor, Communication; PhD, University of Oregon
- Moreau, Leslie M. .... 2007  
Associate Professor, Music; DMA, Arizona State University
- Moro, Regina ..... 2016  
Associate Professor, Counselor Education; PhD, University of North Carolina, Charlotte
- Morrison, Brad ..... 2013  
Associate Professor, Biological Sciences; PhD, University of Texas at Dallas
- Mosebach, Janet ..... 2016  
Associate Professor, Accountancy; PhD, University of Arkansas
- Most, Marshall ..... 1987  
Associate Professor, Communication; MA, Boise State University
- Mukherjee, Partha ..... 2012  
Associate Professor, Mathematics; PhD, University of Minnesota
- Mukherjee, Reshmi ..... 2016  
Assistant Professor, English; PhD, University of Illinois, Urbana-Champaign
- Mullner, Peter ..... 2004  
Distinguished Professor, Materials Science and Engineering; PhD, Swiss Federal Institute of Technology
- Munger, Roger ..... 2001  
Professor, English; PhD, Rensselaer Polytechnic Institute
- Murdoch, Danielle ..... 2014  
Assistant Professor, Criminal Justice; PhD, Simon Fraser University
- Myers, Douglas ..... 2019  
Associate Professor, Community and Environmental Health; ScD, University of Massachusetts Lowell
- Myers, Kelly ..... 2016  
Interim Associate Dean, Arts and Sciences, Associate Professor, English; PhD, University of Arizona
- N**
- Nagarajan, Rajesh ..... 2010  
Associate Professor, Chemistry and Biochemistry; PhD, Wesleyan University
- Nelson, Gena ..... 2018  
Assistant Professor, Early and Special Education; PhD, University of Minnesota
- Nelson-Marsh, Natalie ..... 2004  
Associate Professor, Communication; PhD, University of Colorado, Boulder
- Neupert, Kent ..... 2000  
Professor, International Business; PhD, University of Western Ontario
- Nicholas, Karen ..... 2018  
Assistant Professor, Management; PhD, West Virginia University
- Nichols, Shaun ..... 2018  
Assistant Professor, History; PhD, Harvard University
- Niu, Qifei ..... 2018  
Assistant Professor, Geosciences; PhD, The Hong Kong University of Science and Technology
- Noppe, Alex ..... 2013  
Assistant Professor, Music; PhD, Indiana University
- Norman, Beret ..... 2004  
Associate Professor, World Languages; PhD, University of Massachusetts, Amherst
- Norton, Todd ..... 2016  
Professor, Department Head, Communication; PhD, University of Utah
- Northrup, Clyde J. .... 1998  
Associate Dean, Arts and Sciences, Professor, Geosciences; PhD, Massachusetts Institute of Technology
- Novak, Stephan ..... 1993  
Professor, Biological Sciences; PhD, Washington State University
- O**
- Oestreicher, Cheryl ..... 2012  
Associate Professor, Head, Special Collections, Albertsons Library; PhD, Drew University
- Olshanowsky, Catherine ..... 2016  
Assistant Professor, Computer Science; PhD, University of California, San Diego
- Olsen-Smith, Steven ..... 2000  
Professor, English; PhD, University of Delaware
- O'Mallon, Marilyn ..... 2016  
Associate Professor, Coordinator Online Programs, Nursing; PhD, Hampton University, Virginia
- O'Reilly, Nicole ..... 2015  
Assistant Professor, Social Work; PhD, University of Maryland, Baltimore
- Orr, Martin ..... 1995  
Professor, Interim Chair, Sociology; PhD, University of Oregon
- Osgood, Linda ..... 2002  
Assistant Professor, Director, Health Informatics and Information Management Program, Community and Environmental Health; MA, Boise State University
- Otanicar, Todd ..... 2019  
Associate Professor, Mechanical and Biomedical Engineering; PhD, Arizona State University
- Oxford, Julia Thom ..... 2000  
Distinguished Professor, Director, INBRE/Biomolecular Research, Biological Sciences; PhD, Washington State University
- P**
- Paudel, Jayash ..... 2019  
Assistant Professor, Economics; PhD, University of Massachusetts Amherst
- Paulsen, Krista ..... 2019  
Associate Professor, PS Centers/Programs; PhD, University of California-Santa Barbara
- Paradis, Sarah ..... 2014  
Associate Professor, Music; DMA, Indiana University
- Park, Sanghee ..... 2014  
Assistant Professor, Public Policy and Administration; PhD, Claremont Graduate University
- Park, Susan ..... 2012  
Associate Professor, Management; JD, University of Idaho
- Parkinson, Del R. .... 1985  
Professor, Music; DMA, Indiana University
- Parrett, William ..... 1996  
Professor, Director, Center for School Improvement, Curriculum Instruction and Foundational Studies; PhD, Indiana University
- Parton, Lee ..... 2018  
Assistant Professor, Economics; PhD, North Carolina State University
- Paterson, Sharon ..... 2006  
Professor, Sociology; PhD, Virginia Polytechnic Institute and State University
- Payne, Michelle M. .... 1997  
Professor, Assistant Provost for Academic Leadership and Faculty Affairs; PhD, University of New Hampshire
- Peacock, Rebeca ..... 2017  
Assistant Professor, Librarian, Library; MEd, Wayne State University
- Peariso, Craig ..... 2009  
Associate Professor, Art; PhD, State University of New York at Stony Brook
- Penry, Tara ..... 2000  
Professor, English; PhD, Fordham University
- Pentland, Steven ..... 2018  
Assistant Professor, Information Technology and Supply Chain Management; PhD, University of Arizona
- Pera, Maria Soledad ..... 2014  
Associate Professor, Computer Science; PhD, Brigham Young University
- Peralta, Claudia ..... 2003  
Professor, Literacy, Language, and Culture; PhD, University of Colorado, Boulder
- Perkins, Ross ..... 2008  
Associate Professor, Educational Technology; PhD, Virginia Polytechnic Institute and State University
- Petranek, Laura Jones ..... 2005  
Associate Professor, Kinesiology; PhD, University of South Carolina
- Phillips, Scott ..... 2017  
Professor, Materials Science and Engineering; PhD, University of California, Berkeley
- Pierce, Jennifer L. .... 2005  
Associate Professor, Geosciences; PhD, University of New Mexico
- Plew, Mark G. .... 1984  
Distinguished Professor, Anthropology; PhD, Indiana University, Bloomington
- Plumlee Jr., Donald Gene ..... 2007  
Associate Professor, Chair, Mechanical and Biomedical Engineering; PhD, University of Idaho
- Pool, Juli Lull ..... 2007  
Associate Professor, Special Education and Early Childhood Studies; PhD, University of Oregon
- Poole, Shelle ..... 2016  
Assistant Professor, Management; PhD, University of Idaho

## ADMINISTRATION, FACULTY, AND EMERITI

Porter, Michael ..... 2011  
Associate Professor, Music; DMA, University of Iowa

Powers, Joelle (Jo) ..... 2012  
Associate Dean, Health Sciences, Professor, School of Social Work; PhD, University of North Carolina at Chapel Hill

Pregaman, Molly ..... 2005  
Associate Professor, School of Nursing; MS, Idaho State University

Pritchard, Mary E. .... 2004  
Professor, Psychological Sciences; PhD, University of Denver

Pufall, Darrin ..... 2011  
Associate Professor, Theatre Arts; MFA, University of Florida

Purdy, Craig A. .... 1987  
Assistant Professor, Music; MM, New England Conservatory of Music

### Q

Qu, Leming ..... 2002  
Associate Professor, Mathematics; PhD, Purdue University

### R

Rafla, Nader ..... 1996  
Associate Professor, Electrical and Computer Engineering, Computer Science; PhD, Case Western Reserve University

Raghani, Pushpa ..... 2009  
Associate Professor, Physics; PhD, Jawaharlal Nehru Technological University

Ramirez-Dhoore, Dora Alicia ..... 2006  
Professor, English; PhD, University of Nebraska, Lincoln

Ramsey, Elizabeth ..... 2012  
Assistant Professor, Librarian, Albertsons Library; MLS, Emporia State University

Rauscher, Kimberly ..... 2019  
Associate Professor, Community and Environmental Health; ScD, University of Massachusetts Lowell

Reeder, Heidi ..... 2000  
Professor, Communication; PhD, Arizona State University

Refinetti, Roberto ..... 2014  
Professor, Psychological Sciences; PhD, University of California, Santa Barbara

Reinhardt, Bob ..... 2017  
Assistant Professor, History; PhD, University of California, Davis

Reinhart, Gordon ..... 1999  
Professor, Theatre Arts; MFA, Wayne State University

Reischl, Uwe ..... 2002  
Professor, Community and Environmental Health; PhD, University of California, Berkeley

Rice, Kerry ..... 2006  
Professor, Educational Technology; EdD, Boise State University

Roark, Tony ..... 2001  
Interim Provost and Vice President for Academic Affairs, Professor, Philosophy; PhD, University of Washington

Roark, Robert Scott ..... 2010  
Assistant Professor, Finance; MBA, Texas A&M University

Roberts, Jessica ..... 2016  
Assistant Professor, Communication; PhD, University of Maryland, Philip Merrill College of Journalism

Robertson, Ian C. .... 2000  
Professor, Biological Sciences; PhD, Simon Fraser University

Rodriguez, Arturo ..... 2007  
Professor, Literacy, Language and Culture; PhD, New Mexico State University

Rohn, Troy T. .... 2000  
Professor, Biological Sciences; PhD, University of Washington

Rosetto, Kelly ..... 2016  
Assistant Professor, Communication; PhD, University of Texas at Austin

Rudd, Robert L. .... 1985  
Associate Professor, Communication; PhD, University of Oregon

Ruppel, Margie ..... 2009  
Associate Professor, Librarian, Albertsons Library; MLS, Indiana University, Bloomington

Rush, Daniel ..... 2017  
Assistant Professor, Information Technology and Supply Chain Management; PhD, University of Michigan

Rushing-Raynes, Laura ..... 1998  
Associate Professor, Music; DMA, University of Arizona

Ruskovich, Emily ..... 2017  
Assistant Professor, Theatre Arts; MFA, University of Iowa

Russell, Dale ..... 1995  
Professor, Chemistry and Biochemistry; PhD, University of Arizona

### S

Sadegh, Mojtaba ..... 2017  
Assistant Professor, Civil Engineering; PhD, University of California, Irvine

Sadler, Jonathan Cahill ..... 2007  
Associate Professor, Art; MFA, Tufts University

Salzman, Noah ..... 2014  
Assistant Professor, Electrical and Computer Engineering; PhD, Purdue University

Sand, Jaime ..... 2005  
Associate Professor, Community and Environmental Health; MA, Boise State University

Sanders, Cynthia K. .... 2004  
Professor, Social Work; PhD, Washington University in St. Louis

Sarin, Shikhar ..... 2002  
Professor, Marketing; PhD, University of Texas at Austin

Satici, Aykut ..... 2017  
Assistant Professor, Mechanical and Biomedical Engineering; PhD, University of Dallas, Texas

Scarritt, Arthur ..... 2007  
Professor, Chair, Sociology; PhD, University of Wisconsin, Madison

Schafer, Ellen ..... 2017  
Assistant Professor, Community and Environmental Health; PhD, University of Iowa

Scheepers, Marion ..... 1988  
Distinguished Professor, Mathematics; PhD, University of Kansas

Schimpf, Martin E. .... 1990  
Interim President, Professor, Chemistry and Biochemistry; PhD, University of Utah

Schmitz, Mark ..... 2003  
Professor, Geosciences; PhD, Massachusetts Institute of Technology

Schneider, Jennifer ..... 2014  
Interim Associate Dean, School of Public Service, Associate Professor, PhD Program, Public Policy and Administration; PhD, Claremont Graduate University

Schooley-Pettis, Diane ..... 1989  
Associate Dean, Business and Economics, Professor, Finance; PhD, University of Colorado, Boulder

Scott, Dan ..... 2006  
Associate Professor, Interim Chair, Art; MFA, New York Academy of Art

Sego, Trina Ann ..... 2002  
Professor, Marketing; PhD, University of Texas at Austin

Senocak, Inanc ..... 2007  
Associate Professor, Mechanical and Biomedical Engineering; PhD, University of Florida

Serpe, Marcelo ..... 1998  
Professor, Biological Sciences; PhD, University of California, Davis

Serra, Edorado ..... 2015  
Assistant Professor, Computer Science; PhD, University of Calabria, Italy

Serratt, Teresa ..... 2015  
Associate Professor, Nursing; PhD, The University of California, San Francisco

Shadle, Susan ..... 1996  
Distinguished Professor, Director, Center for Teaching and Learning, Chemistry and Biochemistry; PhD, Stanford University

Shelton, Brett ..... 2013  
Professor, Educational Technology; PhD, University of Washington

Shepherd, Dawn ..... 2011  
Associate Professor, English; MA, North Carolina State University

Sherman, Amber ..... 2014  
Assistant Professor, Librarian, Albertsons Library; MLS, University of North Carolina at Chapel Hill

Sherman, Elena ..... 2013  
Assistant Professor, Computer Science; PhD, University of Nebraska, Lincoln

Shimon, Jane ..... 2001  
Professor, Chair, Kinesiology; EdD, University of Northern Colorado

Shook, Elisabeth ..... 2020  
Assistant Professor, Head, Scholarly Communications and Data Management, Albertsons Library; MA, University of Wisconsin, Madison

Shuck, Gail ..... 2001  
Associate Professor, English; PhD, University of Arizona

Siebert, Carl ..... 2015  
Assistant Professor, Curriculum Instruction and Foundational Studies; PhD, Florida State University

Simmonds, Paul ..... 2014  
Assistant Professor, Physics; PhD, Cambridge University

Simonson, Shawn ..... 2007  
Professor, Kinesiology; EdD, University of Northern Colorado

Smith, Megan ..... 2018  
Assistant Professor, Community and Environmental Health; PhD, West Virginia University

Smith, James F. .... 1992  
Professor, Biological Sciences; PhD, University of Wisconsin, Madison

Smith, Jennifer A. .... 2001  
Associate Professor, Electrical and Computer Engineering; PhD, University of Albany

Smith, Kirk ..... 1993  
Professor, Chair, Marketing; PhD, University of Houston

Smith, Lillian ..... 2016  
Professor, Department Head, Community and Environmental Health; DrPH, University of South Carolina, Columbia

Smulovitz, Anika ..... 2003  
Professor, Art; MFA, University of Wisconsin, Madison

Snelson, Chareen Lee ..... 2006  
Associate Professor, Educational Technology; EdD, Boise State University

Snodgrass, Astri ..... 2018  
Assistant Professor, Art; MFA, University of Alabama

Snopkowski, Kristin ..... 2014  
Associate Professor, Anthropology; PhD, University of New Mexico

Snow, Jennifer ..... 2003  
Interim Dean, Education, Professor, Curriculum Instruction and Foundational Studies; PhD, Pennsylvania State University

Son, Eun Hye ..... 2009  
Associate Professor, Literacy; PhD, The Ohio State University

Songer, Anthony ..... 2009  
Professor, Construction Management; PhD, University of California, Berkeley

Souza, Tasha ..... 2015  
Professor, Associate Director, Center for Teaching and Learning; PhD, University of Washington

Spear, Caille E. .... 1996  
Professor, Community and Environmental Health; PhD, University of Arkansas

Spezzano, Francesca ..... 2015  
Assistant Professor, Computer Science; PhD, University of Calabria, Italy



Springer, Gregory ..... 2013  
 Assistant Professor, Music; PhD, University of  
 Kentucky  
 Stallings, Matthew ..... 2019  
 Assistant Professor, Accountancy; PhD, University of  
 Nebraska–Lincoln  
 Stewart, Roger ..... 1995  
 Professor, Chair, Literacy, Language, and Culture; PhD,  
 Purdue University  
 Stone, Brian ..... 2016  
 Assistant Professor, Psychological Sciences; PhD,  
 University of Georgia  
 Stringfellow, Julia ..... 2010  
 Assistant Professor, Librarian, Archivist, Albertsons  
 Library; MLIS, University of Wisconsin, Milwaukee  
 Subbaraman, Harish ..... 2016  
 Assistant Professor, Electrical and Computer  
 Engineering; PhD, University of Texas at Austin  
 Sugheir, Jeffrey Samir ..... 2006  
 Associate Professor, Management; PhD, Rensselaer  
 Polytechnic Institute  
 Suh, Chan ..... 2016  
 Assistant Professor, Sociology; PhD, Cornell University  
 Sutherland, Leonie ..... 2004  
 Associate Professor, School of Nursing; PhD, University  
 of San Diego

**T**

Taylor-Kindrick, Charlene ..... 2012  
 Assistant Professor, Criminal Justice; PhD, University of  
 Cincinnati  
 Teitler, Zachariah ..... 2010  
 Associate Professor, Mathematics; PhD, University of  
 Michigan, Flint  
 Temkin-Martinez, Michal ..... 2009  
 Associate Professor, English; PhD, University of  
 Southern California  
 Tenne, Dmitri ..... 2006  
 Professor, Physics; PhD, Russian Academy of Sciences  
 Terpend, Regis ..... 2006  
 Associate Professor, Information Technology and  
 Supply Chain Management; PhD, Arizona State  
 University  
 Test, Edward ..... 2008  
 Associate Professor, Chair, English; PhD, University of  
 California–Santa Barbara  
 Thiede, Keith W. .... 2006  
 Associate Dean, Education, Professor, Curriculum  
 Instruction and Foundational Studies; PhD, University  
 of Washington  
 Thomsen, Bastian ..... 2018  
 Assistant Professor, Management; PhD, Central  
 Queensland University - Brisbane, Australia  
 Thornes, Tim ..... 2012  
 Associate Professor, English; PhD, University of Oregon  
 Tinker, Juliette K. .... 2005  
 Professor, Biological Sciences; PhD, University of Iowa  
 Toevs, Sarah E. .... 2000  
 Professor, Director, Center for Study of Aging,  
 Community and Environmental Health; PhD,  
 University of Utah  
 Tornello, Joseph ..... 2012  
 Associate Professor, Music; DMA, University of  
 Kentucky  
 Traynowicz, Laurel ..... 1981  
 Associate Professor, Communication; PhD, University  
 of Iowa  
 Trespalacios, Jesus ..... 2013  
 Assistant Professor, Educational Technology; PhD,  
 Virginia Polytechnic Institute and State University  
 Turner, Lee Ann ..... 1996  
 Professor, Art; PhD, University of Pennsylvania  
 Twitchell, Douglas ..... 2016  
 Associate Professor, Information Technology and  
 Supply Chain Management; PhD, Illinois State  
 University

**U**

Ubic, Rick ..... 2011  
 Associate Professor, Materials Science and Engineering;  
 PhD, University of Sheffield  
 Udall, Braden R. .... 2006  
 Associate Professor, English; MFA, University of Iowa  
 Uehling, Karen S. .... 1981  
 Professor, English; MA, University of California, Davis  
 Uribe-Florez, Lida ..... 2016  
 Associate Professor, Department Head, Educational  
 Technology; PhD, Virginia Tech  
 Utych, Stephen ..... 2015  
 Assistant Professor, Political Science; PhD, Vanderbilt  
 University, Nashville  
 Uzer, Gunes ..... 2016  
 Assistant Professor, Mechanical and Biomedical  
 Engineering; PhD, Stony Brook University, New York

**V**

Vacha-Haase, Tammi ..... 2016  
 Dean, Graduate College, Professor; PhD, Texas A&M  
 University  
 VanDusky-Allen, Julie ..... 2018  
 Assistant Professor, Political Science; PhD, Binghamton  
 University, State University of New York  
 VanWijk, Kasper ..... 2006  
 Associate Professor, Geosciences; PhD, Colorado School  
 of Mines  
 Vaughn, Justin ..... 2012  
 Associate Professor, Political Science; PhD, Texas A&M  
 University  
 Vecchione, Amy ..... 2009  
 Associate Professor, Head, Emerging Technology and  
 Experiential Learning, Albertsons Library; MLIS,  
 University of Washington  
 Veltman, Max ..... 2007  
 Associate Professor, School of Nursing; MS, University  
 of Texas at Austin  
 Viera, Carolina ..... 2016  
 Assistant Professor, World Languages; PhD, University  
 of California, Davis  
 Villachica, Steven ..... 2007  
 Associate Professor, Organizational Performance and  
 Workplace Learning; PhD, University of Northern  
 Colorado  
 Vishal, Saxena ..... 2010  
 Associate Professor, Electrical and Computer  
 Engineering; PhD, Boise State University

**W**

Wakild, Emily ..... 2012  
 Professor, Program Lead, History; PhD, University of  
 Arizona  
 Walker, David ..... 2011  
 Assistant Professor, History; PhD, George Washington  
 University  
 Walker, Kate ..... 2013  
 Associate Professor, Art; MFA, University of Arizona  
 Wall, Misty L. .... 2007  
 Assistant Professor, Social Work; PhD, University of  
 Texas at Arlington  
 Wampler, Brian D. .... 2001  
 Professor, Political Science; PhD, University of Texas at  
 Austin  
 Wanek, James ..... 1996  
 Professor, Management; PhD, University of Minnesota  
 Wang, Sasha ..... 2011  
 Associate Professor, Mathematics; PhD, Michigan State  
 University  
 Wanless, Dorsey ..... 2014  
 Associate Professor, Geosciences; PhD, University of  
 Florida  
 Warden, Kathryn ..... 2012  
 Assistant Professor, Anthropology; PhD, University of  
 California, Davis  
 Warner, Don L. .... 2002  
 Professor, Chemistry and Biochemistry; PhD,  
 University of Michigan

Warner, Lisa ..... 2018  
 Assistant Professor, Chemistry; PhD, University of  
 Colorado, Boulder  
 Warrington, Amber ..... 2016  
 Assistant Professor, English; PhD, University of Texas at  
 Austin  
 Waterman, William ..... 2019  
 Assistant Professor, Music; DMA, Michigan State  
 University  
 Watson, Elaine J. .... 1999  
 Associate Professor, Librarian, Albertsons Library;  
 MLIS, University of Alberta  
 Weaver, Jennifer ..... 2012  
 Associate Professor, Psychological Sciences; PhD,  
 University of California, Irvine  
 Welch, Thaddeus B. .... 2007  
 Professor, Electrical and Computer Engineering; PhD,  
 University of Colorado, Colorado Springs  
 Wells, Jessica ..... 2017  
 Assistant Professor, Criminal Justice; PhD, Sam  
 Houston State University, Texas  
 Wenner, Julianne ..... 2015  
 Assistant Professor, Curriculum Instruction and  
 Foundational Studies; PhD, The University of Georgia  
 Westover, Jeffrey W. .... 2007  
 Associate Professor, English; PhD, Boston College  
 Wharry, Janelle P. .... 2013  
 Assistant Professor, Materials Science and Engineering;  
 PhD, University of Michigan  
 White, Merlin M. .... 2006  
 Professor, Biological Sciences; PhD, University of  
 Kansas  
 Wieland, Mitchell ..... 1996  
 Professor, English; MFA, University of Alabama  
 Wiley, Brian ..... 2014  
 Associate Professor, Art; MFA, Minneapolis College of  
 Art & Design  
 Wilhelm, Jeffrey D. .... 2003  
 Distinguished Professor, English; PhD, University of  
 Wisconsin, Madison  
 Wilkins, David E. .... 2000  
 Associate Professor, Geosciences; PhD, University of  
 Utah  
 Willerton, David ..... 2005  
 Professor, English; PhD, Texas Tech University  
 Willhaus, Janet ..... 2013  
 Associate Professor, School of Nursing; PhD, University  
 of New Mexico  
 Williams, Heather ..... 2015  
 Assistant Professor, Curriculum Instruction and  
 Foundational Studies; PhD, University of Idaho  
 Williams, Nate ..... 2015  
 Assistant Professor, Social Work; PhD, University of  
 Tennessee, Knoxville  
 Wing II, Thomas J. .... 2003  
 Associate Professor, Respiratory Care; EdD, Boise State  
 University  
 Wingett, Denise G. .... 2003  
 Professor, Director, Biomolecular PhD Program,  
 Biological Sciences; PhD, Washington State University  
 Winiacki, Donald ..... 1996  
 Professor, Organizational Performance and Workplace  
 Learning; PhD, Central Queensland University  
 Witt, Heather ..... 2017  
 Assistant Professor, Social Work; PhD, Widener  
 University, Chester, Pennsylvania  
 Witt, Stephanie L. .... 1989  
 Professor, Coordinator, MPA Program, Public Policy  
 and Administration; PhD, Washington State University  
 Wood, Robert ..... 2018  
 Professor, Director, School of Allied Health Sciences,  
 School of Allied Health Sciences; PhD, Louisiana State  
 University  
 Wood, Rulon ..... 2016  
 Associate Professor, Communication; PhD, University  
 of Utah  
 Woods, Shelton ..... 1994  
 Associate Dean, Honors College, Professor, History;  
 PhD, University of California, Los Angeles

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Wright, Grady ..... 2007  
 Professor, Mathematics; PhD, University of Colorado,  
 Boulder

Wright, Katherine ..... 2016  
 Assistant Professor, Literature, Language and Culture;  
 PhD, Texas A&M University

### X

Xiao, Jidong ..... 2016  
 Assistant Professor, Computer Science; PhD, College of  
 William and Mary

Xiong, Claire ..... 2012  
 Assistant Professor, Materials Science and Engineering;  
 PhD, University of Pittsburgh

Xu, Dianxiang ..... 2013  
 Professor, Computer Science; PhD, Nanjing University

### Y

Yang, Dazhi ..... 2010  
 Associate Professor, Educational Technology; PhD,  
 Purdue University

Yeh, Jyh-haw ..... 2000  
 Associate Professor, Computer Science; PhD, University  
 of Florida

Yenor, Scott E. .... 2000  
 Professor, Political Science; PhD, Loyola University  
 Chicago

Yu, Pei-Lin ..... 2014  
 Associate Professor, Anthropology; PhD, Southern  
 Methodist University

### Z

Zhang, Shuqi ..... 2019  
 Assistant Professor, Kinesiology; PhD, Louisiana State  
 University

Zhang, Yanliang ..... 2013  
 Assistant Professor, Mechanical and Biomedical  
 Engineering; PhD, Rensselaer Polytechnic Institute

Ziker, John P. .... 2003  
 Professor, Chair, Anthropology; PhD, University of  
 California, Santa Barbara

Zubik-Kowal, Barbara ..... 2002  
 Professor, Mathematics; PhD, Adam Mickiewicz  
 University

## Boise State University Emeriti

### Faculty

Ackley, Louise, Assistant Professor, English, 1970-2002  
 Affleck, Stephen B., Professor, Civil Engineering,  
 1981-2006

Allen, John W., Professor, Physics, 1971-2001

Allen, Robert, Senior Instructor, Welding & Metals  
 Fabrication, 1976-2009

Allerton, Barbara, Associate Professor, School of Nursing,  
 1992-2013

Allred, Keith W., Associate Professor, Early and Special  
 Education, 2007-2017

Alm, Leslie, Associate Dean & Distinguished Professor,  
 Public Policy and Administration, 1991-2015

Andersen, Rudy A., Associate Professor & Chair, Health  
 Studies, 1993-2003

Anderson, Holly L., Professor, Curriculum, Instruction &  
 Foundational Studies, 1989-2014

Anooshian, Linda J., Professor, Psychology, 1988-2011

Anson, Robert, Professor, Director, Academic Systems,  
 Information Technology and Supply Chain  
 Management, 1990-2017

Arambarri, Gary, Senior Instructor & Manager, Center for  
 Construction & Transportation Technology, 1975-2005

Armstrong, James, Professor, Literacy, Language, and  
 Culture, 1992-2016

Bahnsen, Paul R., Professor, Accountancy, 1999-2018

Bahruth, Robert, Professor, Literacy, Language and  
 Culture, 1988-2018

Baldassarre, Joseph, Professor, Music, 1975-2009

Ballenger, Bruce, Professor, English, 1995-2018

Bammel, Brad P., Associate Professor, Chair, Chemistry  
 and Biochemistry, 1988-2016

Banks, Richard C., Professor, Chemistry, 1969-2002

Barbour, Barton, Professor, History, 2001-2016

Barnes, Helen, Lecturer, Extended Studies, 2003-2019

Barney, L. Dwayne, Professor, Marketing & Finance,  
 1986-2014

Barnhardt, Larry, Dean, Seland College of Applied  
 Technology, 1997-2007

Barr, Robert, Professor, Curriculum, Instruction &  
 Foundational Studies, 1991-2006

Barrash, Warren, Research Professor, Geosciences,  
 1993-2014

Battalio, John T., Associate Professor, English, 1995-2015

Baughn, C. Christopher, Professor, Management,  
 1995-2018

Bazemore Jr., Norris S. (Nick), Associate Professor,  
 Albertsons Library, 1998-2008

Beckman, Terrie, Instructor & Program Head, Dental  
 Assisting, 1990-2009

Beitia, John, Professor, Teacher Education, 1970-1985

Bentley, Elton B., Professor, Geosciences, 1977-1999

Berlin, Mike, Lecturer, Community & Environmental  
 Health, 2013-2018

Bigelow, John D., Professor & Chair, Management,  
 1982-2007

Birdsall, Bobbie A., Associate Professor, Counselor  
 Education, 1995-2015

Bixby, Michael, Professor, Management, 1981-2012

Blankenship, James, Professor, Art, 1977-2005

Bodie, Nancy (Dusty), Associate Professor, Management,  
 1993-2014

Boren, Robert R., Professor, Communication, 1971-1999

Bounds, Karen J., Professor, Business & Office Education,  
 1973-1995

Boyer, Dale K., Professor, English, 1969-2002

Boyles, Jean C., Assistant Professor, Physical Education,  
 1949-1957, 1962-1984

Branson, Kellie, Marketing Coordinator, Center for  
 Workforce Training, 1991-2009

Bratt, J. Wallis, Associate Professor, Music, 1970-2014

Brinton, Alan P., Professor & Associate Vice President for  
 Academic Affairs, Philosophy, 1975-2000

Brown, Timothy, Associate Professor & University  
 Librarian, Albertsons Library, 1977-2005

Browning, William, Professor, Extended Studies, Osher  
 Institute, 1996-2018

Brudenell, Ingrid, Professor, Nursing, 1981-2010

Buhler, Peter, Professor, History, 1977-2013

Burkey, Ralph, Senior Instructor & Program Head,  
 Drafting Technology, 1983-2003

Buss, Stephen R., Associate Professor, Theatre Arts,  
 1979-2002

Butt, Darryl, Distinguished Professor, Associate Director,  
 Center for Advanced Energy Studies, Materials Science  
 & Engineering, 2005-2016

Cade, Tom J., Professor of Raptor Biology & Director,  
 Raptor Research, 1987-1993

Callahan, Janet, Professor, Chair, Materials Science and  
 Engineering, 2004-2018

Cantrell, Thomas, Advanced Instructor & Program Head,  
 Electrical Line worker, 1993-2009

Carey, L. Jean, Assistant Professor, Nursing, 1970-2003

Carlton, Janet LaRae Mary, Senior Instructor, Business  
 Programs, 1974-1998

Carter, Loren, Professor, Chemistry, 1971-2003

Cavaiani, Thomas, Lecturer, Information Technology and  
 Supply Chain Management, 1997-2014

Centanni, Russell J., Professor, Biology, 1973-2004

Chase, Maggie, Associate Professor & Chair, Literacy,  
 Language, and Culture, 2006-2018

Chastain, Garvin D., Professor, Psychology, 1978-2000  
 Christensen, Stephen A., Associate Professor & Director,  
 Educational Technology, 1987-2008

Clark, Cynthia, Professor, School of Nursing, 1995-2015

Colby, Conrad, Professor & Chair, Respiratory Care,  
 1971-2003

Connor, Doran (Bus) L., Assistant Professor, Physical  
 Education, 1966-1989

Cook, Devan, Associate Professor, English, 1997-2011

Cook, James, Professor & Chair, Music, 1992-2007

Cooper, Peggy, Associate Dean, Associate Professor,  
 Albertsons Library, 2000-2016

Corbin, A. Robert, Assistant Professor, Sociology,  
 1968-2004

Cornwell, Robert (Bob), Professor, Business  
 Communication, 1969-1994

Cox, David L., Associate Professor, Instructional &  
 Performance Technology, 1992-2007

Cox, V. Marvin, Professor & Chair, Communication,  
 1977-2004

Crane, Janet, Special Lecturer, Mathematics, 1980-2009

Craner, G. Dawn, Associate Professor, Communication,  
 1973-2007

Dahm, Norman, Professor and Chair, Construction  
 Management & Pre-Engineering, 1953-1990

Dallas, Mary, Senior Instructor & Program Head, Practical  
 Nursing, 1976-1989

Davis, Charles G., Professor, English, 1964-2004

Davis, Janet Maureen, Professor & Orientation Librarian,  
 Albertsons Library, 1973-2006

Davis, Shoni Kay, Associate Professor, School of Nursing,  
 2005-2016

Davydov, Vladimir, Research Professor, Geosciences,  
 1995-2001, 2001-2015

Dawson, Paul, Professor, Mechanical & Biomedical  
 Engineering, 1993-2011

Dayley, Jon, Professor, English, 1982-2010

Dodson, Robert, Instructor & Program Head, Electronics  
 Technology, 1979-2009

Donaldson, Paul, Professor, Geosciences, 1975-2005

Donoghue, Dennis, Professor, Political Science,  
 1973-2002

Douglas, Dorothy, Professor, Biology, 1981-1998

Douglas, Mikel, Senior Instructor, Electronics Technology,  
 1995-2009

Downey, Margaret (Marty), Associate Professor, School of  
 Nursing; Ph. D., 1993-2016

Downs, Richard R., Associate Professor & Counseling  
 Psychologist, Counseling & Testing Center, 1976-2004

Dykstra, Jr., Dewey, Professor, Physics, 1981-2013

Eastman, Phil, Professor & Dean, College of Arts and  
 Sciences, Mathematics, 1977-2005

Eggert, Rudolph J. (R.), Professor, Engineering,  
 1998-2001

Elison-Bowers, Patt, Professor, Psychology, 1986-2013

- Elliott, Catherine, Professor, Music, 1969-1997  
 Elliott, Wilber D. (Will), Professor, Music, 1969-1994  
 Ellis, Robert W., Professor, Chemistry, 1969-2004  
 English, Denise M., Professor, Accountancy, 1987-2017  
 English, Thomas J., Professor, Accountancy, 1987-2014  
 Everts, Evelyn C., Associate Professor, Library Science, 1957-1978  
 Evett, Stuart D., Assistant Professor, English, 1972-2007  
 Feldman, Alex, Associate Professor, Mathematics, 1988-2007  
 Ferguson, David, Associate Professor, Mathematics, 1970-1997  
 Fletcher, Allen W., Professor, History, 1971-2002  
 Fountain, Carol E., Associate Professor, Nursing, 1967-1999  
 Francis, John, Associate Professor, Art, 2001-2018  
 Frankle, Alan W., Professor, Marketing & Finance, 1984-2008  
 Frederick, E. Coston (Fritz), Professor, Teacher Education, 1971-1992  
 French, Judy, Professor, Early Childhood Studies, 1976-2006  
 Fry, Susan, Lecturer, Information Technology and Supply Chain Management, 1995-2017  
 Fuhriman, Jay, Professor, Bilingual Education, 1977-2004  
 Fuller, Eugene G., Professor, Biology, 1967-2000  
 Gabert, Marvin, Professor, Construction Management, 1979-2006  
 Gaines, Marlin L., Advanced Instructor, Automotive Technology, 1980-2007  
 Gallup, V. Lyman, Associate Professor, Supply Chain Management, 1977-2007  
 Gibson, Terry-Ann Spitzer, Associate Professor, Kinesiology, 1981-2019  
 Girvan, James, Professor & Dean, College of Health Sciences, Community and Environmental Health, 1999-2011  
 Glen, Roy, Associate Professor, Management, 1982-2010  
 Gough, Newell (Sandy), Professor, Management, 1989-2010  
 Gourley, Margaret, Advanced Instructor, Child Care & Development, 1977-1992  
 Grassley, Jane S., Professor, Nursing, 2010-2019  
 Groebner, David F., Professor, Networking, Operations & Information Systems, 1973-2005  
 Guilford, Charles, Associate Professor, English, 1971-2004  
 Haefer, James, Associate Professor, Engineering, 1982-1997  
 Haislip, Starla, Senior Instructor, Larry Selland College of Applied Technology, 1992-2009  
 Hanlon, Heather, Professor, Art, 1991-2005  
 Hansen, Ralph W., Professor, Library Science, Associate University Librarian, 1979-1989  
 Harbison, Warren, Professor, Philosophy, 1977-2005  
 Harkness, Daniel, Professor, Social Work; Ph. D., 1993-2017  
 Harrison, Teresa, Assistant Professor, Curriculum, Instruction & Foundational Studies, 1997-2005  
 Hart, Richard L., Professor, Teacher Education, Dean, College of Education, 1977-1991  
 Hausrath, Alan, Professor, Mathematics, 1976-2008  
 Haws, David, Professor, Civil Engineering, 1996-2012  
 Hay, Robert, Lecturer, Electrical & Computer Engineering, 2006-2013  
 Heap, Felix, Professor, Art, 1979-2003  
 Hereford, Mary, Associate Professor, Nursing, 1996-2017  
 Hibbs, Robert A., Professor, Chemistry, 1965-1990  
 Hill, Charlie, Senior Instructor, Larry Selland College of Applied Technology, 1994-2009  
 Hoeger, Werner, Professor, Kinesiology, 1986-2009  
 Hollenbaugh, Kenneth M. (Ken), Professor, Geosciences, Dean, Graduate College and Research Administration, 1969-2002  
 Holley, Donald, Instructor, Economics, 1973-2017  
 Hopfenbeck, Ted H., Associate Professor, Criminal Justice Administration, 1967-1995  
 Hosman-Kulm, Julie, Advanced Instructor, Culinary Arts, 1983-2009  
 Hourcade, Jack, Professor, Special Education and Early Childhood Studies, 1987-2015  
 Hsu Forte, Madeleine, Professor, Music, 1971-1997  
 Huff, Howard L., Professor, Art, 1965-1999  
 Hughes, Robert B., Professor, Mathematics & Computer Science, 1971-2001  
 Huglin, Linda M., Assistant Professor, Organizational Performance & Workplace Learning, 2007-2017  
 Ilter, Frank, Lecturer, Accountancy, 1994-2014  
 Jocums, George, Associate Professor, Modern Languages & Literature, 1973-1998  
 Johnson, Susan, Manager, Center for Health & Human Services, Horticulture Technology & Culinary Arts, 1991-2009  
 Jones, Daryl E., Professor, English, Provost & Vice President for Academic Affairs, 1986-2004  
 Juola, Robert C., Professor, Mathematics, 1970-2000  
 Kelley, Lorrie, Associate Professor, Radiologic Sciences, 1991-2012  
 Kenny, Barbara, Lecturer, Mathematics, 1989-2011  
 Kenny, Otis G., Associate Professor, Mathematics, 1976-2010  
 Kerr, Charles, Professor, Mathematics, 1969-2009  
 Killmaster, John, Professor, Art, 1970-1997  
 Kincaid, Larry, Reference Librarian & Associate Professor, Albertsons Library, 1989-2005  
 Kinney, Richard, Professor, Political Science, 1976-2014  
 Kirby, Linda, Lecturer, Literacy, Language, and Culture, 2006-2016  
 Knapp, James, Clinical Associate Professor, School of Social Work, 1992-2012  
 Kober, Alfred J., Professor, Art, 1968-1999  
 Koeppen, David R., Professor, Accountancy, 1986-2017  
 Kozar, Bill, Professor, Kinesiology, 1989-2005  
 LaCava, Jerry, Professor, Networking, Operations & Information Systems, 1982-2005  
 Lambert, Carroll C., Professor, Elementary Education & Specialized Studies, 1977-2003  
 Lamert, Dan, Professor, Mathematics, 1970-2005  
 LaRiviere, Sara, Associate Professor, Health Studies, 1989-2005  
 Lathen, William, Professor, Accountancy, 1984-2015  
 Lauterbach, Charles E., Professor, Theatre Arts, 1972-2002  
 Leahy, Margaret K., Assistant Professor & Program Coordinator, Nursing, 1982-2005  
 Leahy, Richard, Professor, English, 1972-2003  
 Lester, Daniel W., Professor, Albertsons Library, 1990-2008  
 Lichtenstein, Peter M., Professor, Economics, 1975-2006  
 Limaye, Mohan, Professor, Marketing & Finance, 1993-2003  
 Lincoln, Douglas, Professor, Marketing & Finance, 1980-2013  
 Lindsey, Melinda, Professor, Special Education, 1987-2007  
 Lojek, Helen, Professor, English, Associate Dean, College of Arts & Sciences, 1977-2009  
 Long, Elaine, Professor, Community & Environmental Health, 1974-2009  
 Long, Jim, Professor, Biology, 1974-2009  
 Lonsdale, Edward (Ed), Instructor & Program Head, Manufacturing Technology, 1990-2009  
 Lonsdale, Judy, Lecturer, Biology, 1998-2014  
 Luke, Robert A., Professor & Chair, Physics, 1968-2004  
 Lundy, Phoebe, Associate Professor, History, 1966-2001  
 Lutzte, Peter, Associate Professor, Communication, 1990-2014  
 Lvkken, Briattha, Professor, English, 1968-1994  
 Lyons, Lamont S., Professor, Curriculum, Instruction & Foundational Studies, 1977-2004  
 MacGregor, Tom, Dean, Selland College of Technology, 1990-1997  
 MacInnis, D. Jean, Program Head & Senior Instructor, Dental Assisting, 1962-1990  
 Maguire, James, Professor, English, 1970-2006  
 Maher, Matthew, Professor, Marketing and Finance, 1989-2016  
 Maloof, Giles W., Professor, Mathematics, 1968-2000  
 Markel, Michael, Professor & Director, Technical Communication, English, 1990-2015  
 Marsh, Robert L., Professor, Criminal Justice, 1974-2017  
 Martin, Susan, Professor, Literacy, Language, and Culture, 2003-2016  
 Martz, Kim, Associate Professor, Nursing, 2005-2019  
 Mason, Susan G., Professor, Public Policy and Administration, 2004-2017  
 Mathie, David, Professor, Music, 1992-2014  
 Matjeka, Edward, Professor, Chemistry, 1976-2006  
 Matson, Constance, Associate Professor, Nursing, 1968-1992  
 Maxson, Emerson C., Associate Professor, Information Technology and Supply Chain Management, 1968-2007  
 McCain, Gary, Professor, Marketing & Finance, 1979-2014  
 McCarl III, Robert S., Professor, Sociology, 1990-2013  
 McCloskey, Richard J., Professor, Academic Advisor & Coordinator of Teacher Education, Biology, 1976-2006  
 McCorkle, Suzanne, Professor & Director, Dispute Resolution, Public Policy and Administration, 1978-2014  
 McCrink, Vera, Dean, Larry Selland College of Applied Technology, 1991-2009  
 McGowan, Nancy, Lecturer, English, 1989-2013  
 McGuire, Sherry, Assistant Professor, English, 1967-2010  
 McLuskie, Ed, Professor, Communication, 1981-2014  
 Mercer, Gary, Professor, Chemistry & Biochemistry, 1975-2009  
 Merz, C. Michael, Professor, Accountancy, 1974-1999  
 Metzgar, Wanda, Senior Instructor, Business/Management Technology, 1976-2005  
 Michaels, Paul, Professor, Geosciences, 1993-2018  
 Mikesell, Charles, Senior Instructor, Auto Mechanics, Applied Technology, 1976-1995  
 Miller, Jenny, Associate Professor, Applied Academics, 1995-2009  
 Miller, Margaret (Maggie), Professor, Counselor Education, 1994-2007  
 Miller, Rickie, Associate Professor, Curriculum, Instruction & Foundational Studies, 1992-2014  
 Mills, Janet, Professor, Public Policy & Administration, 1989-2008  
 Minch, Robert, Professor, Information Technology and Supply Chain Management, 1986-2015  
 Mirsky, Rebecca, Associate Professor, Construction Management, 2005-2015  
 Mixon, Diana, Associate Professor, School of Nursing, 1996-2015  
 Moen, Gary, Professor, Horticulture, 1986-2009  
 Petlichkoff, Gary, Distinguished Professor, Political Science, 1976-2013  
 Munger, James C., Professor, Vice Provost for Academic Planning, Biological Sciences, 1988-2019  
 Napier, Nancy, Distinguished Professor, Management, 1986-2015  
 Nelson, Anne Marie, Associate Professor, Counselor Education, 1968-2003  
 Newby, Gary R., Professor, Physics, 1966-2000  
 Nicholson, James A., Director, Counseling Services, 1984-2007  
 Nix, David E., Professor, Accountancy, 1974-1999  
 Noonan, Elizabeth (Bonnie), Senior Instructor & Program Head, Child Care & Development, 1989-2009  
 O'Connor, Jacqueline, Professor, English, 2001-2018  
 Odahl, Charles, Professor, History, 1975-2010  
 Olson, Thomas E., Standard Instructor, Drafting, 1975-1990  
 Oravez, David L., Professor & Chair, Art, 1964-1994  
 Orr, Dona, Instructor & Program Head, Business Technology, 1992-2009  
 Otterness, Nancy, Associate Professor, Nursing, 1982-2009  
 Overgaard, Willard, Professor, Political Science, 1972-1994  
 Owens, John M., Associate Dean of Research/Professor, College of Engineering, 2001-2006  
 Parke, Charles, Senior Instructor, Auto Body, 1980-2009  
 Payne, Anne, Associate Professor, Nursing, 1988-2005  
 Pearson, Ethel (Thel), Associate Professor, Educational Foundations, Technology & Secondary Education, 1981-1997

## ADMINISTRATION, FACULTY, AND EMERITI

- Pelton, John R., Professor, Geosciences, 1981-2018  
Petlichoff, Linda, Professor, Kinesiology, 1987-2011  
Pfeiffer, Ronald, Associate Dean, Education, Professor, Kinesiology, 1979-2016  
Pirrong, Gordon D., Professor, Accountancy, 1979-2003  
Pitman, C. Harvey, Associate Professor, Communication, 1966-1994  
Planting, Arlen, Lecturer, Electrical and Computer Engineering, 1985, 2008-2016  
Plew, Mark, Professor, Anthropology, 1982-2019  
Potter, Glenn, Associate Dean & Professor, Education, 1986-2003  
Ray, Nina M., Professor, Marketing and Finance, 1986-2016  
Rayborn, David W., Associate Professor, Communication, 1969-1996  
Raymond, Greg, Distinguished Professor, Political Science, 1974-2012  
Reavy, Kathleen, Professor, School of Nursing, 2000-2015  
Reese, Melanie, Associate Professor, Applied Academics, 1995-2009  
Reimann, Richard, Professor, Physics, 1975-2009  
Renner, Celia J., Professor, Accountancy, 2002-2014  
Reynolds, R. Larry, Professor, Economics, 1979-2006  
Robbins, Bruce, Professor, English, 1990-2016  
Robertson, John B., Associate Professor, Modern Languages & Literature, 1974-1997  
Rodenhiser, Roy (Butch), Professor & Chair, Social Work, 2005-2015  
Rohrig, Kathleen L., Associate Professor, Mathematics, 1983-2011  
Rozmajzl, Michon, Associate Dean & Professor, Music, 1986-1998  
Ruch, Charles, President, University, 1993-2003  
Russell, Lynn D., Dean & Professor, Engineering, 1998-2003  
Rychert, Robert, Professor, Biology, 1975-2005  
Sadler, Norma, Professor, Literacy, 1973-2006  
Samball, Michael, Associate Professor, Music, 1976-2015  
Sanderson, Irene M. (Rena), Professor, English, 1984-2011  
Sanderson, Richard K., Associate Professor, English, 1971-2005  
Saunders, David, Professor, Music, 1996-2018  
Schackel, Sandra K., Professor, History, 1989-2010  
Scheffer, Martin W., Professor, Sociology, 1964-1997  
Schraeder, Vivian, Professor, Chair, School of Nursing, 1997-2016  
Schroeder, Gerald H., Professor, Music, 1978-2000  
Schroeder, Jeff, Senior Instructor, Interim Center Manager, Small Engine Technology, 1981-2009  
Scudder, Duston R., Professor, Marketing, 1964-1987  
Seddon, Carol, Associate Professor, Health Studies, 1979-2004  
Seibert, Pennie S., Professor, Psychological Sciences, 1990-2018  
Sevier, Carol, Lecturer, College of Engineering - Admin, 2008-2018  
Selander, Glenn, Assistant Professor, English, 1967-2001  
Shallat, Todd A., Professor, Director, Center for Idaho History, History, 1985-2017  
Shannon, Patrick, Professor, Dean, Information Technology and Supply Chain Management, 1974-1982; 1985-2015  
Shannon, Susan (Susie), Special Lecturer, Accountancy, 1985-2010  
Singh, Ramlaykha, Professor, Foundations, Technology & Secondary Education, 1975-1995  
Singletary, Ted, Professor, Curriculum, Instruction & Foundational Studies, 1989-2013  
Skillern, William G., Professor, Political Science, 1971-2000  
Skov, Army R., Professor, Art, 1967-1995  
Sluder, Stanley, Senior Instructor, Semi-conductor Manufacturing Technology, 1983-2005  
Smith, Brent, Professor, Art, 1980-2006  
Smith, Mary Jarrett, Associate Professor, Mathematics, 1987-2019  
Smith, William S. (Willy), Professor, Physics, 1973-2007  
Snow, Mark, Professor, Psychology, 1971-2000  
Snyder, Walter, Professor, Geosciences, 1984-2012  
Sperry, David A., Program Head & Senior Instructor, Machine Tool Technology, 1997-2009  
Spinosa, Claude, Professor & Chair, Geosciences, 1971-2003  
Springer, Pamela, Professor, School of Nursing, 1989-2013  
Stack, James, Advanced Instructor, Electronics Technology, 1984-2009  
Staley, Orland Scott, Assistant Professor, Radiologic Sciences, 1989-2015  
Steiner, Stan, Professor, Literacy, Language, and Culture; Ph. D., 1992-2018  
Stepich, Donald, Associate Professor & Chair, Organizational Performance & Workplace Learning, 1998-2015  
Stephenson, Dale, Professor, Director, School of Allied Health Sciences, 2003-2017  
Stitzel, Thomas E., Professor, Finance, 1975-2000  
Stokes, Lee W., Professor, Director, Environmental & Occupational Health, 1988-2002  
Strohfs, Pam, Associate Professor, School of Nursing, 2003-2018  
Sulanke, Robert A., Professor, Mathematics, 1970-2002  
Sumter, Bonnie J., Advanced Instructor, Center for Health & Human Services, Horticulture Technology & Culinary Arts, 1978-2002  
Tabor, Sharon W., Professor, Information Technology and Supply Chain Management, 1998-2016  
Takeda, Yozo, Professor, Mathematics, 1968-1994  
Taye, John, Professor, Art, 1975-2008  
Taylor, Adrien, Coordinator of Reference Services & Professor, Albertsons Library, 1977-2006  
Taylor, David S., Vice President for Student Affairs & Professor, Psychology, 1972-1998  
Taylor, Pat, Associate Chair & Professor, Nursing, 1975-2007  
Taylor, Ronald, Professor, Art, 1975-2010  
Tennyson, Stephen, Professor, Mechanical and Biomedical Engineering, 1995-2017  
Thomas, Marian, Lecturer, English Department, 1998-2018  
Thorsen, Carolyn, Professor & Chair, Educational Technology, 1987-2006  
Tollinger, Bonnie, Senior Instructor & Program Head, Dental Assisting, 1976-2007  
Towle, Mary Ann, Assistant Professor, Nursing, 1976-2017  
Travis, Darlene K., Assistant Professor, Director, CT Program, Radiologic Sciences, 1989-2016  
Twright, Charlotte, Professor, Economics; Ph. D., 1985-2017  
Tysscling, LeeAnn, Associate Professor, Literacy, Language, and Culture; Ph. D., 1992-2016  
Valverde, Luis J., Professor, Languages, 1965-1992  
Vaughn, Ross, Professor, Kinesiology, Associate Dean, College of Education, 1973-2009  
Vinz, Warren L., Professor, History, 1969-2002  
Virta, Alan, Associate Professor & Head, Special Collections, Library, 1988-2011  
Waag, Charles W., Professor, Geosciences, 1981-1998  
Waite, Wenden W., Director & Professor, Special Education, 1976-2004  
Waldorf, Larry, Senior Instructor, Center for Business & Management Technology, 1970-2002  
Walen, Sharon, Professor, Mathematics, 1996-2012  
Walker, Eldon, Assistant Professor, Nursing, 2002-2017  
Wallace, Steven R., Assistant Professor, Kinesiology, 1972-2008  
Walsh, Anthony, Professor, Criminal Justice, 1984-2019  
Ward, Frederick R. (Fritz), Professor, Mathematics, 1969-2002  
Warner, Mont M., Professor, Geosciences, 1967-1984  
Weatherby, James B., Associate Professor, Director of Public Policy, Public Policy & Administration, 1989-2006  
Wertman, Donald L. (Don), Senior Instructor, Machine Tool Technology, 1979-2000  
Whitaker, William, Professor, Social Work, 2002-2009  
White, Craig M., Professor, Geosciences, 1980-2009  
White, Harry, Professor, Finance, 1988-2018  
Wicklow-Howard, Marcia, Intercollegiate Athletics Faculty Representative & Professor, Biology, 1975-2006  
Widmayer, Jan, Professor, English, 1975-2008  
Wilcox, Marguerite, Associate Professor, Nursing, 1972-1991  
Williamson, Marjorie, Associate Professor, College of Applied Technology, 1967-1997  
Wilson, Monte D., Professor, Geology/Geosciences, 1969-1997  
Wilterding, Jim, Professor, Management, 1976-1994  
Wojtkowski, W. Gregory (Greg), Professor, Information Technology and Supply Chain Management, 1982-2010  
Wojtkowski, Wita, Professor, Information Technology and Supply Chain Management, 1982-2010  
Wood, Spencer H., Professor, Geosciences, 1977-2004  
Young, Katherine A., Professor, Elementary Education & Specialized Studies, 1984-2003  
Young, Richard, Professor, Art, 1994-2018  
Young, Virgil M., Professor, Education, 1967-1996  
Yunker, J. Douglas, Associate Professor, School of Social Work, 1976-2004  
Zaerr, Linda M., Professor, English, 1987-2018  
Zirinsky, Driek, Professor, English, 1984-2018  
Zirinsky, Michael, Professor, History, 1973-2011

### Professional Staff

- Allen, James (Jim), Coordinator, Graduate Degree Services, 1993-2011  
Alm, Barbara, Associate Director, Financial Aid & Scholarships, 1991-2012  
Alvord, Debra, Director, Employee Relations, Human Resource Services, 1972-2012  
Anchustegui, Renee, Director, Professional MBA Program, 1985-2014  
Ansbach, Thomas, Enrollment Coordinator, Extended Studies, 1982-2014  
Anson, Cindy, Director, Faculty Development, 1999-2017  
Arnold, Gerti, Senior Development Director, University Advancement, 1998-2019  
Asbury, Kim, Assistant to the Registrar, Registrar's Office, 1987-2018  
Atkinson, Janet, Executive Director, eCampus Center, 1997-2018  
Belcheir, Marcia, Associate Director of Institutional Analysis, Institutional Research, 1995-2015  
Benjamin, Karen, Education Specialist, High School Equivalency Program, 1999-2016  
Bishop, Catherine, Education Specialist, Education, 1999-2016  
Boman, Viola, Employment Manager and Special Projects Coordinator, Human Resource Services, 1973-2010  
Brown, Janelle, Assistant Director, Communications and Marketing, 1998-2018  
Bú, Julie, Project Director, TRiO Educational Talent Search Programs, 1993-2018  
Burke, Larry D., Director, University Relations, 1975-2003  
Burnett, Linda, Operations Manager, Organizational Performance and Workplace Learning, 1992-2015  
Buser, Jane, Executive Director, Human Resource Services, 1973-2010  
Cashin, Rod, Manager, Video Services, 1994-2016  
Cassell, Jacquelyn H. (Jackie), Assistant to the President, President's Office, 1964-1995  
Centanni, Janet M., Director, Student Services Center, 1975-2008  
Charlton, Connie Lou, Manager, Donor Relations & Events, College of Business & Economics, 1978-2008  
Collins, Jill, Head, Serials Department, Albertsons Library, 1974-2011  
Cooper, David, Associate Dir Arch & Eng Svcs, Campus Planning - A&E Services, 1989-2018  
Corbet, Max, Associate Director, Athletics, 1986-2017  
Cortle, William (Bill), Senior Instructional Design Consultant, Academic Technologies, 1977-78, 86-2012  
Craner, Gary E., Assistant Director/Athletic Trainer, Athletics, 1972-2008  
Criner, Herb, Associate Director/Operations, BSU Intercollegiate Athletics, 1985-2006

- Davis, Peggy, Manager, Accounts Payable, 1993-2017
- Dibelius, Ron, Assistant to the Director, Intercollegiate Athletics, 1988-2013
- Duncan, Scott, Facilities Maintenance Supervisor, Athletics, 2002-2018
- Eisele, Theodore (Ted), Instructional Television Specialist, Academic Technologies, 1983-85, 88-2012
- Emilson, Bae, Director, Center for Professional Development, 2004-2014
- Erb, Julie, Web Design Specialist, Extended Studies, 1988-2018
- Evancho, Bob, External Affairs, Athletics, 1986-2009
- Fairchild, Diana, Scholarships Director, Financial Aid, 1990-2019
- Fisher, Anne M., Business Manager & ComMedia, Academic Technologies, 1974-2004
- Foster, Jerry, Associate Program Developer, Educational Technology, 2001-2018
- Franden, John S., Executive Assistant, President's Office, 1985-2004
- Girvan, Georgia, Director, Idaho R. A. D. A. R. Center, 1999-2011
- Goranson, Lesley, Operations Manager, Vice President for Finance & Administration, 1996-2014
- Grames, Ronald (Ron), Systems Administrator, Organizational Performance and Workplace Learning, 1991-2016
- Graybeal, David (Dick), Manager, Engineering & Technical Services, 1974-2003
- Grimes, Joyce Ann, Executive Director, Taco Bell Arena/ Student Recreation, 1999-2008
- Guerrero, Salvador, Systems Engineer, Office of Information Technology, 1996-2012
- Hambelton, Benjamin (Ben), Director, Academic Technologies, 1975-2010
- Hampton, Katherine, Coordinator, Special Projects, College of Applied Technology, 1975-2008
- Harris, Catherine, Director of Site Operations, Extended Studies, 1988-2014
- Hecker, Elizabeth (Betty), Director, Affirmative Action, 1984-2003
- Hewitt, Janis, Developer Analyst, Application Development Services, Office of Information Technology, 1979-2003
- Hill, Glenda, Stdt Svcs/Acad Advising Dir, College of Health Sciences, 1997-2018
- Hogge, James, Director, Idaho Small Business Development Center, 1993-2012
- Hoyt, Jyl, Public Radio Journalist, Boise State Public Radio, 1988-2010
- Huizinga, Sue, Project Director, TRiO, Center for Multicultural and Educational Student Programs, 1985-2013
- Hurst, Christine, Director of Technology Operations and Support, Office of Information Technology, 1984-2015
- Hyde, Kenneth, Senior Instructional Design Consultant, Academic Technologies, 1979-2012
- Irvin, Larry, Director, Office of Research, 1973-2005
- Jacoby, Ed, Head Track Coach, Athletics, 1975-1996
- Jensen, William (Bill), Dean, Continuing Education, 1974-1995
- Joyce, Carol, Accounts Payable Manager, Accounts Payable, 1984-2010
- Jones, Eric, Membership Manager, Boise State Public Radio, 1989-2015
- Jossis, Andrew, Instructional Technologist 2, Office of Information Technology, 2208-2019
- Keith, Ted, Director, Internal Auditing, 1966-1997
- Knox, Ellis "Skip", Enterprise Web Developer, Office of Information Technology, 1986-2013
- Kreps, Harold D., Manager, Albertsons Library, 1989-2004
- Ladwig, Carol, Assistant Director, Athletics, 1978-1998
- Learned, Kevin, Director, Venture College, 1992-1999; 2006-2017
- Lee, Sandy, Executive Staff Assistant, President's Office, 1979-2014
- Lukes, Martin, Systems Engineer, College of Engineering Information Technology, 1997-2016
- Madden, Jr., Robert (Bob), Associate Athletic Director, Athletics, 1980-2014
- Maille, Cheryl, Director, Executive Education, 2004-2014
- Maloney, Gail, Director, Insurance and Safety, Risk Management, 1972-2001
- Matjeka, Margaret, Financial Aid Counselor, Financial Aid Office, 1986-2005
- McCurry, Janis, TEC Manager, BSU Bookstore, 1987-2015
- McDonald, Angus, Director, Information Technology Services, 1989-2010
- McKinnon, Ellie, Director, Osher Lifelong Learning Institute at Boise State, 1985-2012
- McMillan, Reba, Network Administrator, College of Social Science & Public Affairs, 1993-2007
- Messing, Mark, Programmer Analyst 3, OIT - Development, 2004-2018
- Moore, Lyn, Program/Operations Coordinator, Office of Technology Transfer, 1999-2014
- Morgan, Barbara, Distinguished Educator in Residence, Research & Economic Development, 2008-2015
- Nally, James, Executive Director, Alumni Association, 1973-1995
- Nelson, Jayne, Physician Assistant, Health Services, 2000-2014
- Ness, Nancy, Testing Services Coordinator, Advising and Academic Enhancement, 1983-2014
- Newcomb, Bruce, Director, President's Office, 2008-2017
- Norris, Jack, Database Administrator, Office of Information Technology, 2001-2016
- Northrup, JoAnn, Assistant Manager, Accounts Payable, 1999-2010
- Pangburn, Carol, Senior Staff Counselor, Counseling Services, 1999-2014
- Pass, Leslie, Assistant Director of Events, Taco Bell Arena, 1973-2013
- Pearson, Stacy, Vice President, Finance and Administration, 2004-2017
- Player, Vivian, Facilities Scheduling Coordinator, Conference Services, 1991-1999, 2005-2016
- Plowman, John, Senior Developer/Analyst, Office of Information Technology, 1982-2007
- Powell, Sue, Assistant Network Administrator, College of Education, 1982-2011
- Pyke, Patricia, Director, Division of Research and Economic Development, 2000-2017
- Rapp, Richard P., Associate Vice President for Student Affairs, Student Affairs, 1970-2007
- Rasmussen, Gary, Engineer, Academic Technologies, 1990-2011
- Redshaw, Evelyn, Senior Business Manager, College of Arts and Sciences, 2004-2019
- Rice, Cynthia, Assistant Director, Business Manager, Athletics, 2002-2017
- Rosco, Rosie, Program Manager, Center for Workforce Training, 1977-2009
- Rosenbaum, Christine, Executive Director, Budget and Planning, 1994-2015
- Ross, Richard, Project Coordinator, Architecture & Engineering, 1983-2008
- Rudin, Mark, Interim VP Research & Econ., Div of Research & Econ Develop, 2007-2018
- Satterlee, Kevin, Chief Operations Officer/Vice President for Campus Operations, Chief Operating Office, 2001-2018
- Satterlee, Margaret, Director of Special Events and Protocol, President's Office, 2012-2018
- Sawyer, Phyllis L., Director, BSU Wellness/RADAR/PAYADA, 1986-1999
- Scheer, Charles B. (Chuck), Manager, Photographic Services, 1975-2003
- Schenk, Barbara, Business Manager, Office of Information Technology, 1974-2008
- Schimpf, Maya, Nurse Practitioner, University Health Services, 2013-2018
- Schmidt, Steve, Director, Institutional Research, 1986-2012
- Schram, Susan, Project Coordinator for Academic Planning, Office of the Provost, 2010-2015
- Seibolt, Ellen, Technical Support Specialist, Office of Information Technology, 1982-2017
- Sigler, Maureen, Associate Director, Financial Aid, 1987-2017
- Sewell, Kaitie, Director, Idaho Small Business Development Center, 1999-2018
- Smith, Corrine, Boise State Representative - Gowen Field, Extended Studies, 1986-2010
- Spear, Sandra, Nurse Practitioner, University Health Services, 2000-2017
- Stensaas, Frances (Jo), Education Director, TRiO Veterans Upward Bound, 1989-1998, 2000-2002, 2009-2015
- Stevens, Julie, Head Dance Coach, Intercollegiate Athletics, 1983-2013
- Sup Lange, Pamela, Programmer Analyst 3, Office of Information Technology, 1999-2013
- Swayne, Bruce, Director, Language Resource Center, Modern Languages & Literature, 1984-2009
- Teater, Debra, Student Success Coordinator, Advising and Academic Enhancement, 1988-2014
- Thies, Joan, Senior Compensation Specialist, Human Resource Services, 1976-2017
- Trotter, Kay, Business Analyst, Office of Budget and Planning, 2003-2018
- Urquidi, Linda, Director, Summer & Intersession Programs, Extended Studies, 1971-2012
- Voorhis, Pamela, Manager, Student Financial Operations, 1986-2017
- Weir, Joyce, Benefits Manager, Human Resource Services, 1984-2010
- West, Karla, Counseling Center Director, University Health Services, 1999-2016
- Williams, R. K., Veterans Coordinator, Veteran Services, 1989-2014
- Woodward, Chris, Financial Aid Counselor, Financial Aid, 1977-1998
- Wright, Darlene E., Management Assistant, BSU Foundation, 1987-2006

### Classified Staff

- Acree, Judy, Administrative Assistant, Vice President for Student Affairs, 1969-2003
- Allen, Linda Kay, Administrative Assistant II, Honors College, 1986-2006
- Anderson, Patti, Technical Records Specialist, Extended Studies, 1983-2014
- Applegate, Cynthia Diane, Administrative Assistant II, Theatre Arts, 1987-2005
- Baldassarre, Jan, Customer Service Representative, Registrar, 2000-2017
- Bantam, Patti, Management Assistant, Intercollegiate Athletics, 1978-2013
- Bauges, Donna, Facilities Specialist, Student Union, 1984-2010
- Berntsen, Linda, Technical Records Specialist 1, Operations and Finance, 1985-2018
- Bilbao, Nancy, Receptionist, Office of Information Technology, 2003-2017
- Berntsen, Linda, Technical Records Specialist, Operations and Finance, 1985-2018
- Borton, Christine, Administrative Assistant, Kinesiology, 1991-2011
- Bow, Theresa Ann, Personnel Technician, Human Resource Services, 1997-2018
- Bowers, Sylvia Pat, Senior Secretary, Radiologic Sciences, 1976-1996
- Brigham, Faith, Administrative Assistant, Anthropology, 1985-2017
- Briseno, Mario, Section Manager, Albertsons Library, 1987-2011
- Brown, Sharon, Management Assistant, Communication Department, 1988-2018
- Brownlee, Jo, Library Assistant, Albertsons Library, 1989-2015
- Bugni, Carol, Management Assistant, Human Resource Services, 1997-2012
- Burke, Robin, Library Assistant II, Albertsons Library, 1997-2017
- Burkholder, Janice, Library Assistant 3, Albertsons Library, 1986-2014

## ADMINISTRATION, FACULTY, AND EMERITI

- Cardinale, Pauline Liz E., Library Assistant II, Albertsons Library, 1979-2000
- Carroll, Carol, Management Assistant, College of Health Sciences, 1984-2009
- Carroll, Cynthia, Library Section Manager, Albertsons Library, 1984-2014
- Carter, Faith, Laboratory Material Supervisor, Chemistry, 1991-2008
- Carter-Hepworth, Mary, Library Assistant, Albertsons Library, 1986-2009
- Chapman, Shannon, Financial Technician, Larry Selland College of Applied Technology, 1986-2004
- Chesnut, Wilson L., Manager, Supply Operations, Physical Plant, 1977-1999
- Clapp, Rebecca, Room Scheduling Coordinator, Registrar, 1998-2017
- Clemens, Celia, Administrative Assistant, Accounts Payable, 1991-2015
- Clever, Charlotte, Technical Records Specialist I, Accounts Payable, 1975-2001
- Collier, Beth, Administrative Assistant I, Philosophy, 1984-2008
- Conlin, Anna (Nancy), Technical Records Specialist, Accounts Payable, 1999-2016
- Connell, Maribeth, Facilities Scheduling Coordinator, Student Union, 1988-2004
- Conner, Donna, Management Assistant, Alumni Association, 1979-2013
- Coolidge, Terri, Information Systems Coordinator, Registrar, 1977-2013
- Cowles, Diana, Senior Buyer, Purchasing, 1971-2005
- Crane, Marylou, Account Representative, Housing, 1970-1992
- Davis, Peggy, Manager, Accounts Payable, 1993-2017
- Dawkins, Lori, Administrative Assistant, World Languages, 1988-2017
- Dehlin, Roxann N., Administrative Assistant, Criminal Justice Administration, 1986-2003
- Del Toro, Debra, Office Specialist, Career Center, 1995-2014
- Delaney, Cheryl Rene', Administrative Assistant I, Campus Recreation, 1988-2017
- Downs, Wendy, Technical Records Specialist, Academic Technologies, 1973-2008
- Echevarria, Luise E. (Lu), University Travel Examiner, Accounts Payable, 1971-1998
- Eichelberger, Juni, Customer Service Representative 1, University Health Services, 1996-2018
- Emacio, Jeffrey, Building Facility Foreman, Taco Bell Arena Operations, 1983-2017
- Erickson, Homer, Grounds Maintenance, Physical Plant, 1973-1992
- Fields, Naomi, Management Assistant, Graduate College, 1988-2008
- Fingerson, Paul, Custodian, Facilities Operations & Maintenance, 1999-2017
- Flacker, Darlene, Administrative Assistant I, Sociology, 1979-2001
- Flores, Debby, Personnel Technician, Human Resource Services, 2000-2018
- Forrey, Sharon, Customer Service Rep 1, Registrar, 1998-2018
- Fuller, Jackie C., Administrative Assistant, Nursing, 1977-1999
- Garcia, Angela, Management Assistant, School of Allied Health, 1986-2017
- Gerrard, Julie, Management Assistant, Graduate College, 1984-86, 91-95, 99-2012
- Gray, Bonnie, Technical Specialist I, Admissions, 1998-2005
- Gropp, Sherry, Administrative Assistant II, English, 1986-2005
- Hampton, Greg, Executive Director of Campus Services, Student Union, 1972-2009
- Hansen, Fred, Event Technical Coordinator, Theatre Arts, 1990-2017
- Haskins, Dorothy, Clerical Specialist, Curriculum Resource Center, Albertsons Library, 1972-1988
- Hederer, Sherry, Office Specialist II, Career Center, 1986-2003
- Hemingway, Virginia, Graduate Admissions Coordinator, Graduate College, 1974-1994
- Herseth, John T. (Tom), Building Facility Foreman, Facilities Operations & Maintenance, 1992-2009
- Hestekin, Irene, Administrative Secretary, Mathematics, 1981-1998
- Hill, Eloise, Production Foreman, Printing & Graphic Services, 1971-2005
- Hines, Carol, Human Resource Specialist, Career Center, 1974-2005
- Hodge, Tammy, Facilities Scheduling Coordinator, Conference Services, 1998-2013
- Hotyky, Art, Inventory Specialist, Accounting, 1977-1999
- Howell, Sandy, Technical Records Specialist 2, Division of Extended Studies, 1999-2019
- Hughes, Rhonda, Administrative Assistant, English, 1995-2015
- Huston, Dorothy L., Senior Secretary, Modern Languages & Literature, 1974-1995
- Johansen, Liz, Management Assistant, Geosciences Department, 2001-2019
- Johnson, Peggy, Administrative Assistant, Psychology, 1986-2013
- Jones, DeAnna, Administrative Assistant II, English, 2005-2017
- Kamphaus, Wilma Morgan, Administrative Assistant I, Bilingual Education, 1985-2008
- Kaufman, Arlene, Administrative Assistant, Graduate College, 2000-2013
- Kelley, Larry, Storekeeper, Central Receiving, Facilities, Ops. & Maint., 1987-2012
- Kindall, Norma, Management Assistant, College of Engineering, 2000-2017
- Knudson, Gerrel, Technical Records Specialist, Professional Development, 1994-2009
- Law, Ona, Management Assistant, English, 1988-2014
- Lee, Ann, Management Assistant, Information Technology & Supply Chain Management, 1976-2015
- Leininger, Trudy, Administrative Assistant, Affirmative Action, 1976-2001
- Lenon, Carol (Jeannie), Administrative Assistant, Accountancy, 1994-2013
- Levesque, Claudette, Administrative Secretary, Biology, 1976-1997
- Lindley, V. Ann, Technical Records Specialist I, Registrar, 1970-1999
- Lyons, Phyllis K., Box Office Manager, Taco Bell Arena, 1982-2008
- Madison, Wilma (Billie), Technical Records Specialist II, Registrar, 1987-2009
- Mahaffey, Arlene, Administrative Secretary, Registrar, 1971-2003
- Masoner, D. Sue, Library Assistant, Albertsons Library, 1991-2014
- McAdams, Lynn, Senior Transcript Evaluator, Registrar, 1984-2005
- Medley, Peggy, Administrative Assistant I, Geosciences Department, 2001-2018
- Messley, Constance, Administrative Assistant II, Student Life, 1997-2014
- Meyer, Rebecca, Administrative Assistant II, Kinesiology, 1988-2013
- Moss, Beverly, Administrative Assistant I, Physics Department, 1998-2018
- Mumm, Connie, Technical Records Specialist, Extended Studies, 2000-2012
- Myers, Eva Jeanne, Financial Specialist, Larry Selland College of Applied Technology, 1977-2004
- Naranche, Sally, Customer Service Representative, Human Resource Services, 1992-2013
- Nicholson, Lynn, Purchasing Agent, Purchasing, 1983-2003
- Palmer, Marvel, Administrative Assistant II, Mathematics, 1985-2011
- Peterson, Ella, Payroll Supervisor, Accounting, 1964-1983
- Petty, Barbara, Senior Secretary, Physics, 1974-1995
- Pittam, Gwendlyn, Section Manager, Albertsons Library, 1973-2011
- Ploeg, Lee, IT Data Communication Repair Specialist, Office of Information Technology, 1993-2007
- Porter, Debbie, Financial Unit Supervisor, Office of Information Technology, 1993-2017
- Pulley, Violet, Library Assistant, Albertsons Library, 1996-2014
- Reininger, Debi, Program Information Coordinator, Institutional Research, 1990-2016
- Roberson, Ernie, Administrative Assistant, College of Education, 1974-1996
- Robinson, Jerry R., Trainer, Facilities Operations & Maintenance, 1995-2011
- Ross, Brenda, Management Assistant, Admissions, 1978-2009
- Rountree, Nancy, Management Assistant, College of Engineering, 1992-2006
- Sailor, Jane, Administrative Assistant II, Academic Technologies, 1983-2011
- Santillanes, Josephine, Custodian, Physical Plant, 1969-1986
- Saras, Sarah, Management Assistant, Athletics, 1978-2018
- Schappacher, Gunter (Gus), Plumber, Facilities Operations & Maintenance, 1987-2003
- Smith, Sandra (Sandi), Catalog Editor and Transcript Evaluator Sr., Registrar, 1969-2003
- Sorensen, Pamela, Administrative Assistant I, Accountancy, 1977-2007
- Sower, Muriel, Library Assistant II, Albertsons Library, 1991-2011
- Spafford-Aufdenkamp, Carol, Administrative Secretary, Theatre Arts, 1974-1998
- Spoor-Stephenson, Clare, Administrative Assistant, Counseling & Testing Center, 1974-1996
- Stewart, James, HVAC Specialist, Facilities Operations & Maintenance, 1984-2011
- Streiff, John, Library Circulation Manager, Albertsons Library, 1992-2013
- Thomas, Dixie, Secretary, Budget Office, 1976-1996
- Thuis, Julie, Library Section Manager, Albertsons Library, 1999-2014
- Torrence, Marc, Library Specialist, Albertsons Library, 1999-2015
- Trofast, Tricia, Administrative Assistant, Philosophy, 1988-2014
- Turner, Leona, IT Programmer Analyst, Enterprise Application Systems, 1977-2007
- Turner, Ramona, Office Services Supervisor 1, Student Financial Services, 2001-2017
- Ultican, Katherine, Library Assistant 3, Albertsons Library, 1975-2008
- Urresti, Joan, Senior Transcript Evaluator, Registrar, 1977-1993
- Wallace, Sue, Office Services Supervisor 1, Student Financial Services, 1987-2019
- Waters, Joe, Plumber, Campus Facilities, 2005-2017
- Wilke, Carol, Technical Records Specialist, Boise State Public Radio, 1990-2013
- Williams, Nancy, Technical Specialist I, Admissions, 1988-2011
- Winslow, C. Ann, Management Assistant, University Advancement, 1994-2006
- Wiscombe, Kenny, Storekeeper, Facilities Operations & Maintenance, 1978-2013
- Wyett, Diane C., Library Assistant I, Albertsons Library, 1984-2008

# Index

|  |         |  |
|--|---------|--|
| 2  |         |  |
| 21-Credit Cap .....                                  | 29      |  |
| 3  |         |  |
| 3+3 Law Degree Programs .....                        | 268     |  |
| A  |         |  |
| Academic Advising at Boise State .....               | 50      |  |
| Academic and Fee Policy .....                        | 28      |  |
| Academic Calendar .....                              | 2, 28   |  |
| Academic Integrity .....                             | 19      |  |
| Academic Standing .....                              | 32      |  |
| Academic Structure of the University .....           | 10      |  |
| Accountancy, Department .....                        | 61      |  |
| Accreditation .....                                  | 8       |  |
| Adding Classes .....                                 | 28      |  |
| Address Changes .....                                | 20      |  |
| Administration, Faculty, and Emeriti .....           | 328     |  |
| Administrative Withdrawal from Boise State ...       | 30      |  |
| Admission of International Students and the          |         |  |
| Center for Global Education .....                    | 25      |  |
| Admission Records, Retention of .....                | 27      |  |
| Admission Standards .....                            | 23      |  |
| Idaho Residents .....                                | 23      |  |
| Nondegree-seeking Students .....                     | 25      |  |
| Nonresidents of Idaho .....                          | 23      |  |
| Returning Students .....                             | 25      |  |
| Transfer Students .....                              | 25      |  |
| Admission Status .....                               | 26      |  |
| Admission to Teacher Education .....                 | 125     |  |
| Admission to Upper-Division .....                    | 51      |  |
| Admissions .....                                     | 22      |  |
| Index .....  | 23      |  |
| Petitions .....                                      | 27      |  |
| Advanced Placement Exams (AP) .....                  | 51      |  |
| Advising and Academic Success Center                 |         |  |
| (AASC) .....   | 41      |  |
| Albertsons Library .....                             | 9       |  |
| Anthropology, Department of .....                    | 63      |  |
| Apartment Options .....                              | 39      |  |
| Appeals  |         |  |
| Complete Withdrawals .....                           | 29      |  |
| Dismissal .....                                      | 32      |  |
| Drop a Class After the Deadline .....                | 29      |  |
| Fee Appeals .....                                    | 34      |  |
| Financial Aid .....                                  | 38      |  |
| Right of Appeal .....                                | 21      |  |
| Applied Public Administration Certificate ..         | 66      |  |
| Arts Entrepreneurship Minor .....                    | 77      |  |
| Associate of Arts and Associate of Science           |         |  |
| Degrees .....  | 78      |  |
| Associated Students of Boise State University        |         |  |
| .....  | 44      |  |
| Athletics .....                                      | 10      |  |
| Attendance Policy .....                              | 29      |  |
| B  |         |  |
| Bachelor of Applied Science .....                    | 79      |  |
| Biological Sciences, Department of .....             | 80      |  |
| Biomedical Engineering Minor .....                   | 78      |  |
| Business Bridge to Career Program .....              | 86      |  |
| C  |         |  |
| Campus Recreation .....                              | 42      |  |
| Career Center .....                                  | 41      |  |
| Catalog Policy .....                                 | 51      |  |
| Center for Global Education .....                    | 42      |  |
| Center for Professional Development .....            | 18      |  |
| Chemistry and Biochemistry, Department of ...        | 87      |  |
| Children's Center .....                              | 44      |  |
| City of Boise, The .....                             | 7       |  |
| Civil Engineering, Department of .....               | 90      |  |
| College First-Year Writing Requirement .....         | 47      |  |
| College Level Examination Program (CLEP) .....       | 51      |  |
| College of Arts and Sciences .....                   | 11      |  |
| College of Business and Economics .....              | 11      |  |
| College of Education .....                           | 12      |  |
| College of Engineering .....                         | 13      |  |
| College of Health Sciences .....                     | 14      |  |
| College of Innovation and Design .....               | 15      |  |
| Communication, Department of .....                   | 94      |  |
| Community and Environmental Health,                  |         |  |
| Department of .....                                  | 103     |  |
| Computational Science and Engineering                |         |  |
| Minor .....  | 112     |  |
| Computer Science, Department of .....                | 112     |  |
| Concurrent Enrollment for High School                |         |  |
| Students .....                                       | 17      |  |
| Confidentiality and Privacy .....                    | 19      |  |
| Conflict Management Program .....                    | 118     |  |
| Construction Management, Department of               |         |  |
| .....  | 119     |  |
| Counseling Services .....                            | 43      |  |
| Counselor Education, Department of .....             | 121     |  |
| Course Numbering System .....                        | 60      |  |
| Course Prefixes .....                                | 58      |  |
| Course Prerequisite .....                            | 51      |  |
| Creative Writing. <i>See: Theatre, Film, and</i>     |         |  |
| <i>Creative Writing</i>                              |         |  |
| Credit Cap (21) .....                                | 29      |  |
| Credit for Prior Learning .....                      | 51      |  |
| Credit Limitations .....                             | 52      |  |
| Credit/Audit Status .....                            | 28      |  |
| Criminal Justice, Department of .....                | 122     |  |
| Critical Theory .....                                | 124     |  |
| Curriculum, Instruction, and Foundational            |         |  |
| Studies, Department of .....                         | 125     |  |
| D  |         |  |
| Data Science for the Liberal Arts .....              | 132     |  |
| Dean of Students .....                               | 44      |  |
| Dean's List .....                                    | 31      |  |
| Declaring a Major .....                              | 21      |  |
| Deferred Payment of Tuition, Fees, and Other         |         |  |
| Charges .....  | 33      |  |
| Degree Tracker .....                                 | 50      |  |
| Department of Art, Design, and Visual Studies        |         |  |
| .....  | 67      |  |
| Department-initiated Withdrawals .....               | 29      |  |
| Dismissal Appeal .....                               | 32      |  |
| Division of Extended Studies .....                   | 17      |  |
| Double Majors .....                                  | 53      |  |
| Drop Fee .....                                       | 29      |  |
| Dropping Classes .....                               | 29      |  |
| E  |         |  |
| Early and Special Education, Department of ...       | 133     |  |
| eCampus .....  | 17      |  |
| Economics, Department of .....                       | 141     |  |
| Educational Access Center .....                      | 44      |  |
| Educational Technology, Department of ...            | 145     |  |
| Electrical and Computer Engineering,                 |         |  |
| Department of .....                                  | 146     |  |
| Eligibility for On-Campus Housing .....              | 40      |  |
| Engineering Science .....                            | 152     |  |
| English Language Support Services .....              | 41      |  |
| English, Department of .....                         | 155     |  |
| Enrollment Appointments .....                        | 28      |  |
| Environmental Studies Program .....                  | 163     |  |
| F  |         |  |
| Faculty-Initiated Withdrawals .....                  | 29      |  |
| Fair-Housing Policy .....                            | 39      |  |
| Film and Television Arts. <i>See: Theatre, Film,</i> |         |  |
| <i>and Creative Writing</i>                          |         |  |
| Final Exams .....                                    | 21      |  |
| Finance, Department of .....                         | 165     |  |
| Financial Aid  |         |  |
| Appeals .....  | 38      |  |
| Eligibility Requirements .....                       | 36      |  |
| Enrollment .....                                     | 37      |  |
| International Students .....                         | 38      |  |
| Privacy Notice .....                                 | 38      |  |
| Sources of .....                                     | 36      |  |
| Study Abroad .....                                   | 38      |  |
| Withdrawals .....                                    | 30, 37  |  |
| G  |         |  |
| Games, Interactive Media, and Mobile                 |         |  |
| Program .....  | 168     |  |
| Gender Equity Center .....                           | 44      |  |
| Gender Studies Minor .....                           | 170     |  |
| General Degree Requirements .....                    | 46      |  |
| General Notice of Nondiscrimination .....            | 20      |  |
| General Policies .....                               | 19      |  |
| Geosciences, Department of .....                     | 171     |  |
| Global Studies Program .....                         | 177     |  |
| Grade Exclusion .....                                | 32      |  |
| Grades .....   | 31      |  |
| Grading System .....                                 | 31      |  |
| Graduate Catalog .....                               | 16      |  |
| Graduate College .....                               | 16      |  |
| Graduate Credit Options for Seniors .....            | 16      |  |
| Graduation Honors .....                              | 53      |  |
| H  |         |  |
| Health Services .....                                | 43      |  |
| History, Department of .....                         | 180     |  |
| Honors College .....                                 | 17, 188 |  |
| Housing Cost Information .....                       | 40      |  |
| Housing Preferences .....                            | 40      |  |
| Housing Rules and Regulations .....                  | 40      |  |
| How Boise State Calculates Your Tuition and          |         |  |
| Fees .....   | 33      |  |
| How Financial Aid is Distributed .....               | 37      |  |
| How to Apply for Financial Aid .....                 | 37      |  |
| How to Apply for Graduation .....                    | 53      |  |
| How to Apply for Housing .....                       | 40      |  |
| How to Calculate Your Grade-Point Average            |         |  |
| (GPA) .....  | 31      |  |
| How to Read a Course Description .....               | 60      |  |
| How to Read a Degree Requirements Table ...          | 55      |  |
| How to Use This Catalog .....                        | 1       |  |
| Human Rights Certificate .....                       | 189     |  |
| I  |         |  |
| Idaho Residence for Tuition Purposes .....           | 34      |  |
| Idaho Senior Citizen's Fee Reduction .....           | 34      |  |
| Important Deadlines .....                            | 23      |  |
| Incomplete Grades .....                              | 31      |  |
| Incomplete to Grade of F .....                       | 31      |  |
| Independent Study .....                              | 52      |  |

|   |     |
|---|-----|
| Industrial Engineering Minor .....                                      | 189 |
| Information Technology and Supply Chain Management, Department of ..... | 189 |
| Intensive English Language Program .....                                | 43  |
| Intensive English Pathway Program .....                                 | 196 |
| Intensive Semester Learning Experience ...                              | 198 |
| Interdisciplinary Studies Program .....                                 | 198 |
| International Student Services (ISS) .....                              | 42  |
| Internships .....   | 52  |
| Introduction to Boise State University, An .....                        | 7   |

K

|   |     |
|---|-----|
| K-12 Teacher Professional Development ..... | 18  |
| Kinesiology, Department of .....            | 200 |

L

|  |     |
|--|-----|
| Leadership and Human Relations Program .....         | 208 |
| Literacy, Language, and Culture, Department of ..... | 209 |
| Living-Learning Programs .....                       | 39  |

M

|  |          |
|--|----------|
| Management, Department of .....                            | 209, 213 |
| Marketing, Department of .....                             | 220      |
| Material Science and Engineering, Micron School of .....   | 229      |
| Mathematics Requirement .....                              | 47       |
| Mathematics, Department of .....                           | 223      |
| McNair Scholars Program .....                              | 44       |
| Mechanical and Biomedical Engineering, Department of ..... | 232      |
| Medical Services .....                                     | 43       |
| Military Science, Department of .....                      | 239      |
| Minors and Certificates, Notes on .....                    | 53       |
| Mission .....  | 7        |
| Multicultural Student Services .....                       | 44       |
| Multidisciplinary Studies Program .....                    | 240      |
| Music, Department of .....                                 | 242      |

N

|   |     |
|---|-----|
| Name Changes .....                      | 21  |
| National Student Exchange Program ..... | 42  |
| New Student Programs .....              | 41  |
| Noncredit Bearing Courses .....         | 33  |
| Nursing, School of .....                | 251 |

O

|   |    |
|---|----|
| Obtaining a Degree .....                | 46 |
| Orientation .....                       | 41 |
| Orientation (BroncoVenture) .....       | 41 |
| Osher Lifelong Learning Institute ..... | 18 |
| Other Fees and Charges .....            | 33 |
| Other Student Services .....            | 44 |
| Outreach Centers .....                  | 17 |

P

|                                 |     |
|---------------------------------|-----|
| Philosophy, Department of ..... | 255 |
| Physics, Department of .....    | 258 |

|  |     |
|--|-----|
| Policy Statement Concerning Catalog Contents .....       | 1   |
| Political Science, Department of .....                   | 261 |
| Pre-Business .....                                       | 268 |
| Pre-Health Pathways .....                                | 106 |
| Pre-Law Advising/3+3 Law Degree Programs .....           | 268 |
| Preferred Name .....                                     | 21  |
| Probation and Dismissal .....                            | 32  |
| Professional Development, Center for .....               | 18  |
| Programs Offered for Academic Credit .....               | 17  |
| Providing Equal Access to People with Disabilities ..... | 20  |
| Psychological Science, Department of .....               | 269 |
| Public Service .....                                     | 272 |

R

|  |     |
|--|-----|
| Radiologic Sciences, Department of .....           | 273 |
| Refund Policy .....                                | 34  |
| Repeating a Course .....                           | 31  |
| Residence Hall, Suite, and Townhouse Options ..... | 39  |
| Residency Status .....                             | 34  |
| Respiratory Care, Department of .....              | 280 |
| Rhetoric and Advocacy .....                        | 284 |
| Rights and Responsibilities .....                  | 19  |

S

|   |        |
|---|--------|
| Satisfactory Academic Progress Standards                    | 38     |
| Scholarships .....  | 36     |
| School of Public Service .....                              | 16     |
| Second Baccalaureate Degree .....                           | 25, 50 |
| Social Work, School of .....                                | 284    |
| Sociology, Department of .....                              | 288    |
| State Authorization and Online Education Beyond Idaho ..... | 8      |
| STEM Education Program .....                                | 294    |
| Student Classification .....                                | 21     |
| Student Diversity Center .....                              | 45     |
| Student Employment .....                                    | 45     |
| Student Involvement and Leadership .....                    | 44     |
| Student Records .....                                       | 20     |
| Student Rights and Responsibilities .....                   | 45     |
| Student Services .....                                      | 41     |
| Student Success .....                                       | 41     |
| Students and Faculty .....                                  | 8      |
| Summer Sessions .....                                       | 17     |
| Sustainability Minor .....                                  | 295    |

T

|   |     |
|---|-----|
| Table 11.1 Majors and Degrees Offered at Boise State University ..... | 56  |
| Table 11.2 Minors Offered at Boise State University .....             | 57  |
| Table 11.3 Certificates .....   | 58  |
| Table 11.4 Course Prefixes .....                                      | 59  |
| Table 3.1—How to Apply for Admission to Boise State University .....  | 22  |
| Teaching Endorsement Foreign Language .....                           | 319 |
| Teaching Endorsements American Government/Political Science ...       | 263 |

|  |     |
|--|-----|
| Art .....  | 70  |
| Bilingual Spanish Education (K-12) .....                 | 210 |
| Biological Science .....                                 | 82  |
| Chemistry .....  | 88  |
| Communication .....                                      | 97  |
| Computer Science .....                                   | 114 |
| Drama .....  | 302 |
| Earth Science .....                                      | 172 |
| Economics .....  | 143 |
| Engineering .....  | 153 |
| English as a Second Language .....                       | 210 |
| Geography .....  | 172 |
| Health .....   | 202 |
| History .....  | 183 |
| Literacy K-12 .....                                      | 210 |
| Mathematics .....  | 225 |
| Middle Level (5-9) Science Teaching Endorsement .....    | 294 |
| Middle School Mathematics .....                          | 225 |
| Natural Science .....                                    | 294 |
| Physical Science .....                                   | 259 |
| Physics .....  | 259 |
| Psychology .....   | 270 |
| Sociology .....  | 291 |
| Technology Resources .....                               | 10  |
| Test Preparation .....                                   | 41  |
| Testing Center .....                                     | 41  |
| Theatre, Film, and Creative Writing, Department of ..... | 296 |
| Tour of the Campus, A .....                              | 9   |
| Transcript Records .....                                 | 20  |
| Transferring Credits to Boise State .....                | 54  |
| TRIO Program .....                                       | 45  |
| Tuition and Fees .....                                   | 33  |

U

|   |     |
|---|-----|
| University Foundations .....                          | 49  |
| University Foundations Program .....                  | 306 |
| University-Wide Course Numbers .....                  | 58  |
| University's History, The .....                       | 7   |
| Urban Studies and Community Development Program ..... | 306 |
| User Experience Research Program .....                | 309 |

V

|  |     |
|--|-----|
| Verification of Your Enrollment Status ..... | 21  |
| Vertically Integrated Projects (VIP) .....   | 310 |
| Veteran Services .....                       | 45  |
| Vision and Strategic Plan .....              | 7   |

W

|                                      |     |
|--------------------------------------|-----|
| Waitlisting .....                    | 28  |
| Wellness Services .....              | 43  |
| When You Are Admitted .....          | 27  |
| Withdrawals .....                    | 29  |
| Workshop course description .....    | 58  |
| Workshops .....                      | 29  |
| World Languages, Department of ..... | 311 |
| Writing Center .....                 | 41  |





