BOISE STATE UNIVERSITY

UNDERGRADUATE

# 2015 - 2016

CATALOG

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## How much do I have to pay?

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## Where is the campus map?

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### 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 In particular, when an instructional program is to be withdrawn, the university will make every reasonable effort to ensure that students who are within two years of completing the graduation requirements, and who are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progress toward the completion of those requirements, will have the opportunity to complete the program, which is to be withdrawn.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.

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REGISTRAR/UNDERGRADUATE

## How to Use This Catalog

This catalog serves many audiences, but it is primarily directed at students. In the first part of the catalog you will find an overview of Boise State University, along with information on admission, registration, fees, financial aid, housing, student activities, student services, and other policies and procedures.

Of course, your most important concern will be choosing an academic program of study that fits your interests. Consequently, you will need to understand the requirements for the particular degree or certificate you decide to pursue. Most of this catalog is devoted to describing the various programs and courses offered at Boise State University.

Chapter 10 is your starting point for choosing an academic program of study. It describes the various types of degrees and certificates offered, the general requirements for each type, and other policies and procedures that apply to all degrees. It also tells you how to read the table of requirements for your chosen program.

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

Chapter 12 describes in detail all the undergraduate academic programs and course offerings. Within the chapter, programs are listed alphabetically (with cross-references as needed).

We have tried to make this catalog as easy to use as possible, but you will probably still have questions. For questions regarding your academic program, you should contact your advisor (or the Office of Advising and Academic Enhancement, if you have not chosen a major). For questions on other issues (for example, admission, registration, fees) contact the offices listed in the appropriate chapter.

The following reference materials are available on the Boise State website, www.boisestate.edu:

- *Boise State University Credit for Prior Learning*
- *Boise State University Graduate Catalog*
- *Boise State University Policy Manual*
- *Boise State University Student Code of Conduct*
- *Boise State University Student Handbook*
- *Boise State University Summer Schedule of Classes*

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# Academic Calendar — 2015-2016

## SUMMER SESSION 2015

**Deadlines by Session – Summer 2015**

| Session | Fee Payment Deadline* | Start Date | Last Date to Waitlist or Add Without Permission Number | Drop Fee Begins | Last Date for Refund & Last Date to Register/ Add or Drop Without a W** | Last Date to Drop or Completely Withdraw With a W. No Refund. | Last Date of Classroom Instruction | Grades Due*** |
|---|---|---|---|---|---|---|---|---|
| 1st 3 week | May 7 | May 11 | May 11 | May 15 | May 12 | May 22 | May 31 | June 2 |
| 1st 5 week | May 28 | 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 7 | May 11 | May 13 | May 15 | May 14 | June 10 | June 28 | June 30 |
| 2nd 7 week | June 25 | June 29 | July 1 | July 3 | July 2 | July 29 | August 16 | August 18 |
| 10 week | May 28 | June 1 | June 3 | June 6 | June 9 | July 16 | August 9 | August 11 |
| 14 week | May 7 | May 11 | May 15 | May 17 | May 21 | July 14 | August 16 | August 18 |

Special Session 1 and Special Session 2 deadlines are available on the Registrar's Office website.

*Complete withdrawals on or after this date are subject to a processing fee.

**Last date to add with permission number, last date to drop or completely withdraw without a W and receive a refund (less a $40.00 processing fee), last date to change from credit-to-audit or audit-to-credit.

***Grades will not be considered official until the end-of-term processing has been completed.

| | | |
|---|---|---|
| February | 17, Tue | Registration begins for Summer 2015. |
| | 20, Fri | Last day to submit Application for Admission to Candidacy form to Graduate Admission and Degree Services for graduate degrees to be awarded in August 2015. |
| March | 2, Mon | Summer 2015 on-campus housing application available at noon. |
| | 13, Fri | Recommended last day to submit 2014-2015 Free Application for Federal Student Aid (FAFSA) for consideration for financial aid for Summer 2015. |
| May | 15, Fri | Priority date for undergraduate, degree-seeking applicants to have all admission materials received by Admissions. Applicants who miss this priority date 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. |
| May | 25, Mon | Memorial Day (No classes. University offices closed). |
| June | 3, Wed | Summer financial aid census date. Eligibility for financial aid determined by number of credits registered on this date. |
| | 4, Thu | Last day to apply for graduation, using myBoiseState, for graduate and undergraduate degrees and certificates to be awarded in August 2015. |
| | 15, Mon | Recommended last day for final oral defense of dissertation, thesis, or project for graduate degrees to be awarded in August 2015. |
| | 20, Sat | Last day for students to work using 2014-2015 work-study awards. |
| | 29, Fri | Last day to add undergraduate independent study and internship. |
| | 29, Fri | 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. |
| July | 3, Fri | Independence Day (Observed). (No classes. University offices closed). |
| | 10, Fri | Last day to submit advisor-approved version of dissertation or thesis with signed Final Reading Approval and Access Agreement for a Thesis or Dissertation to the Thesis and Dissertation Office for degrees to be awarded in August 2015. |
| August | 7, Fri | Last day to submit final copies of dissertation or thesis to the Thesis and Dissertation Office for graduate degrees to be awarded in August 2015. |
| | 14, Fri | Summer housing ends. Residents transition to fall housing assignments. |

# FALL SEMESTER 2015

## Deadlines by Session – Fall 2015

| Session | Fee Payment Deadline* | Start Date | Last Date to Waitlist or Add Without Permission Number | Drop Fee Begins | Last Date for Refund & Last Date to Register/Add or Drop Without a W** | Last Date to Drop or Completely Withdraw With a W. No Refund. | Last Date of Classroom Instruction | Grades Due*** |
|---|---|---|---|---|---|---|---|---|
| Regular**** | August 20 | August 24 | August 28 | August 30 | September 4 | October 30 | December 11 | December 22 |
| 1st 5 week | August 20 | August 24 | August 25 | August 28 | August 26 | September 15 | September 25 | September 29 |
| 2nd 5 week | August 20 | September 28 | September 29 | October 2 | September 30 | October 20 | October 30 | November 3 |
| 3rd 5 week | August 20 | November 2 | November 3 | November 6 | November 4 | December 1 | December 11 | December 22 |
| 1st 8 week | August 20 | August 24 | August 26 | August 29 | August 28 | September 29 | October 16 | October 20 |
| 2nd 8 week***** | August 20 | October 19 | October 21 | October 24 | October 23 | December 1 | December 11 | December 22 |
| 1st 10 week | August 20 | August 24 | August 26 | August 29 | September 1 | October 8 | October 30 | November 3 |
| 2nd 10 week | August 20 | September 28 | September 30 | October 3 | October 6 | November 12 | December 11 | December 22 |
| 12 week Mountain Home | August 20 | August 24 | August 27 | August 30 | September 2 | October 16 | November 13 | November 17 |

Special Session 1 and Special Session 2 deadlines are available on the Registrar's Office website.

*Complete withdrawals on or after this date are subject to a processing fee.

**Last date to add with permission number, last date to drop or completely withdraw without a W and receive a refund (less a $40.00 processing fee), last date to change from credit-to-audit or audit-to-credit.

***Grades will not be considered official until the end-of-term processing has been completed.

****The final exams for this session are December 14-18. See Final Examination Schedule listed on the Registrar's Office website for exact dates and times.

*****This session is eight calendar weeks long with seven weeks of in-class instruction due to the Thanksgiving Week Break.

2014

| | | |
|---|---|---|
| December | 1, Mon | 2015-2016 academic year on-campus housing application available at noon for residence halls, suites, and townhomes. |
| | 15, Mon | Priority date for nonresident scholarships, all admission materials for new and transfer students must be received in Admissions. |

2015

| | | |
|---|---|---|
| January | 1, Thu | The *2015-2016 Free Application for Federal Student Aid* (FAFSA) can be submitted beginning today. |
| February | 15, Sun | 2015-2016 FAFSA filing priority date for 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. |
| | 15, Sun | Scholarship priority deadline. Last day to have all admission materials received in Admissions for new freshman and transfer students to be considered for scholarships for the 2015-2016 year. 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. |
| March | 15, Sun | 2015-2016 FAFSA filing priority date for continuing 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. |
| | 30, Mon | Registration for continuing students begins for Fall 2015 (by appointment). |
| May | 15, Fri | Priority date for undergraduate, degree-seeking applicants to have all admission materials received by Admissions. Applicants who miss this priority date 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. |
| | 15, Fri | Priority date for international student application materials to be received for fall semester consideration. |
| June | 1, Mon | Priority date to submit all financial aid documents to maintain 2015-2016 work-study, supplemental grants (SEOG) and Perkins loans. Funding for these programs is limited; these awards may be cancelled if documents are not submitted by June 1st. |
| | 26, Fri | Last day to submit Application for *Admission to Candidacy* form to Graduate Admission and Degree Services for graduate degrees to be awarded in December 2015. |

*Fall Semester 2015 continued*

| | | |
|---|---|---|
| July | 1, Wed | First day students can begin using 2015-2016 work-study awards. |
| | 25, Sat | First installment of payment plan due for residence hall, suite, and townhome residents (on-campus housing only). |
| August | 3, Mon | Recommended date to finalize student course schedules for Fall 2015 for financial aid purposes. |
| | 17, Mon | University, college, and department activities for faculty begin this week. |
| | 21, Fri | Residence hall, suite, and townhome resident check-in begins at 8:00 a.m. (in one-and-a-half hour shifts). |
| | 21, Fri | Convocation. |
| | 24, Mon | Course instruction begins. |
| | 28, Fri | Weekend courses begin. |
| | 28, Fri | Last day faculty may submit drops for nonattendance during the first week of the semester to the Registrar's Office. |
| | 28, Fri | Last day to apply for graduation, using myBoiseState, for graduate and undergraduate degrees and certificates to be awarded in December 2015. |
| September | 4, Fri | Last day to waive Student Health Insurance Plan (SHIP) using myBoiseState. |
| | 4, Fri | Fall financial aid census date. Eligibility for financial aid determined by number of credits registered on this date. |
| | 4, Fri | Last day for students living on campus to change residential meal plans. |
| | 4, Fri | Last day to add graduate dissertation, thesis, project, or portfolio credit. |
| | 4, Fri | Last day to submit *Idaho Residency Determination Worksheet* with documentation to Registrar's Office to declare Idaho residency for Fall 2015 consideration. |
| | 7, Mon | Labor Day (No classes. University offices closed). |
| October | 2, Fri | Last day to add undergraduate internship and independent study. |
| | 2, Fri | 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. |
| | 12, Mon | Columbus Day (Classes in session. University offices open). |
| | 16, Fri | Recommended last day for final oral dissertation, thesis, or project defense for graduate degrees to be awarded in December 2015. |
| November | 6, Fri | Last day to submit advisor-approved version of dissertation or thesis with signed *Final Reading Approval* and *Access Agreement for a Thesis or Dissertation* to the Thesis and Dissertation Office for degrees to be awarded in December 2015. |
| | 11, Wed | Veterans Day (Classes in session. University offices open). |
| | 23-29, M-Su | Thanksgiving holiday (No classes. University offices closed November 26-27). |
| December | 11, Fri | Last day to submit final version of dissertation or thesis to the Thesis and Dissertation Office for graduate degrees to be awarded in December 2015. |
| | 11, Fri | Course instruction ends. |
| | 13, Sun | Weekend courses end. |
| | 14-18, M-F | Final semester examinations for the Regular session. Exam schedule listed on Registrar's Office website. |
| | 19, Sat | Commencement. |
| | 19, Sat | Winter break on-campus housing begins for residents with current housing assignment. |
| | 22, Tue | Grade reports due on myBoiseState. |
| | 24-30, Th-W | Holiday Break (University offices closed). |
| | 28, Mon | Last day to submit Report of *Non-Transcripted Culminating Activity* form (if needed) to Graduate Admission and Degree Services for graduate degrees to be awarded in December 2015. |
| | 31, Thu | New Year's Eve (University offices closed). |
| January | 1, Fri | New Year's Day (University offices closed). |

## SPRING SEMESTER 2016

### Deadlines by Session – Spring 2016

| Session | Fee Payment Deadline* | Start Date | Last Date to Waitlist or Add Without Permission Number | Drop Fee Begins | Last Date for Refund & Last Date to Register/ Add or Drop Without a W** | Last Date to Drop or Completely Withdraw With a W. No Refund. | Last Date of Classroom Instruction | Grades Due*** |
|---|---|---|---|---|---|---|---|---|
| Regular**** | January 7 | January 11 | January 15 | January 17 | January 25 | March 18 | April 29 | May 10 |
| 1st 5 week | January 7 | January 11 | January 12 | January 15 | January 13 | February 2 | February 12 | February 16 |
| 2nd 5 week | January 7 | February 16 | February 17 | February 20 | February 18 | March 9 | March 18 | March 29 |
| 3rd 5 week | January 7 | March 28 | March 30 | April 1 | March 30 | April 19 | April 29 | May 10 |
| 1st 8 week | January 7 | January 11 | January 13 | January 16 | January 15 | February 16 | March 4 | March 8 |
| 2nd 8 week***** | January 7 | March 7 | March 9 | March 12 | March 11 | April 19 | April 29 | May 10 |
| 1st 10 week | January 7 | January 11 | January 13 | January 16 | January 20 | February 25 | March 18 | March 29 |
| 2nd 10 week | January 7 | February 16 | February 18 | February 21 | February 24 | April 8 | April 29 | May 10 |
| 12 week Mountain Home | January 7 | January 11 | January 14 | January 17 | January 21 | March 4 | April 8 | April 12 |

Special Session 1 and Special Session 2 deadlines are available on the Registrar's Office website.

*Complete withdrawals on or after this date are subject to a processing fee.

**Last date to add with permission number, last date to drop or completely withdraw without a W and receive a refund (less a $40.00 processing fee), last date to change from credit-to-audit or audit-to-credit.

***Grades will not be considered official until the end-of-term processing has been completed.

****The final exams for this session are May 2-6. See Final Examination Schedule listed on the Registrar's Office website for exact dates and times.

*****This session is eight calendar weeks long with seven weeks of in-class instruction due to the weeklong Spring Break.

2015

| | | |
|---|---|---|
| October | 1, Thu | Spring 2016 on-campus housing application available at noon for residence halls, suites and townhomes. |
| | 1, Thu | Recommended last day to submit 2015-2016 FAFSA/FAFSA renewal for Spring 2016 financial aid (if you have not already done so) in order to have aid available to pay spring semester fees. |
| | 1, Thu | Spring scholarship priority 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 2016. The 2015-2016 FAFSA must be filed by this date to be considered for need based scholarships. |
| | 9, Fri | Last day to submit *Application for Admission to Candidacy* form to Graduate Admission and Degree Services for graduate degrees to be awarded in May 2016. |
| | 15, Thu | Priority date for international student application materials to be received for spring semester consideration. |
| November | 2, Mon | Registration for continuing students begins for Spring 2016 (by appointment). |
| | 15, Sun | Priority date for undergraduate, degree-seeking applicants to have all admission materials received by Admissions. Applicants who miss this priority date 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. |
| December | 21, Mon | Recommended date to finalize student course schedules for Spring 2016 for financial aid purposes. |

2016

| | | |
|---|---|---|
| January | 4, Mon | University, college, and department activities for faculty begin this week. |
| | 9, Sat | Residence halls, suites, and townhomes check-in for new residents begins at noon. |
| | 11, Mon | Course instruction begins. |
| | 15, Fri | Weekend courses begin. |
| | 15, Fri | Last day faculty may submit drops for nonattendance during the first week of the semester to the Registrar's Office. |
| | 15, Fri | Last day to apply for graduation, using myBoiseState, for graduate and undergraduate degrees and certificates to be awarded in May 2016. |
| | 18, Mon | Dr. Martin Luther King, Jr./Idaho Human Rights Day. (No classes. University offices closed). |

*Spring Semester 2016 continued*

| | | |
|---|---|---|
| January | 25, Mon | Last day for students living on-campus to change residential meal plans. |
| | 25, Mon | Last day to waive Student Health Insurance Plan (SHIP) using myBoiseState. |
| | 25, Mon | Spring financial aid census date. Eligibility for financial aid determined by number of credits registered on this date. |
| | 25, Mon | Last day to add graduate dissertation, thesis, project, or portfolio credit. |
| | 25, Mon | Last day to submit *Idaho Residency Determination Worksheet* with documentation to Registrar's Office to declare Idaho residency for Spring 2016 consideration. |
| February | 15 Mon | Presidents' Day (No classes. University offices closed). |
| | 19, Fri | Last day to add undergraduate internship and independent study. |
| | 19, Fri | 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. |
| March | 4, Fri | Recommended last day for final oral dissertation, thesis, or project defense for graduate degrees to be awarded in May 2016. |
| | 18, Fri | Last day to submit advisor-approved version of dissertation or thesis with signed *Final Reading Approval* and *Access Agreement for a Thesis or Dissertation* to the Thesis and Dissertation Office for degrees to be awarded in May 2016. |
| | 21-27, M-Su | Spring Break. (No Classes. University offices open March 21-25). |
| April | 29, Fri | Course instruction ends. |
| | 29, Fri | Last day to submit final version of dissertation or thesis to the Thesis and Dissertation Office for graduate degrees to be awarded in May 2016. |
| May | 1, Sun | Weekend courses end. |
| | 2-6, M-F | Final semester examinations for the Regular session. Exam schedule listed on the Registrar's Office website. |
| | 7, Sat | Residence halls, suites, and townhomes (9 month agreement) close at noon. |
| | 7, Sat | Commencement. |
| | 10, Tue | Grade reports due on myBoiseState. |

# 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 Historical 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 Taco Bell Arena on campus. In addition, Taco Bell Arena hosts a number of campus and national sporting events.

## The University's Environment

Long heralded as an institution devoted to excellence in classroom teaching, the university is stretching beyond its regional roots and extending its academic and athletic influence to a national level. It also is deepening partnerships and relationships close to home, where it serves as an urban university dedicated to the research and student experiences that drive economic development and contribute to a vibrant and healthy community.

Boise State has a dynamic graduate and nontraditional student population. Master's and doctoral programs are offered in disciplines ranging from anthropology and geophysics to nursing and social work, with much more in between. These programs include everything from practice-oriented master's programs that prepare students for leadership roles to research-focused Ph.D. programs that develop the next generation of scholars.

Today the breadth of programs and services Boise State offers, combined with its unique location, make it one of the nation's best places to live and learn. The university has academic programs in seven academic colleges–Arts and Sciences, Business and Economics, Education, Engineering, Health Sciences, and Graduate Studies–with a full-time faculty of more than 600.

## Mission and Core Themes

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.

Our mission is further elaborated by our Core Themes: Undergraduate Education, Graduate Education, Research and Creative Activity, and Community Commitment. Each Core Theme is further expanded upon by four Core Objectives focused on i) Access and Completion, ii) Relevance, iii) Quality, and iv) Culture (See http://academics.boisestate.edu/strategic-plan/core-themes/). Our Core Themes are as follows:

**Undergraduate Education:** Our university provides access to high quality undergraduate education that cultivates the personal and professional growth of our students and meets the educational needs of our community, state, and nation. We engage our students and focus on their success.

**Graduate Education:** Our university provides access to graduate education that addresses the needs of our region, is meaningful in a global context, is respected for its high quality, and is delivered within a supportive graduate culture.

**Research and Creative Activity:** Through our endeavors in basic and applied research and in creative activity, our researchers, artists, and students create knowledge and understanding of our world and of ourselves, and transfer that knowledge to provide societal, economic, and cultural benefits. Students are integral to our faculty research and creative activity.

**Community Commitment:** The university is a vital part of the community; and our commitment to the community extends beyond our educational programs, research, and creative activity. We collaborate in the development of partnerships that address community and university issues. The community and university share knowledge and expertise with each other. We look to the community to inform our goals, actions, and measures of success. We work with the community to create a rich mix of culture, learning experiences, and entertainment, so that we can educate and enrich the lives of our citizens. Our campus culture and climate promote civility, inclusivity and collegiality.

## 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 2012-2017.* The goals and strategies are:

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

- Develop the Foundational Studies Program into a memorable centerpiece of the undergraduate experience.
- Provide bountiful opportunities within and across disciplines for experiential learning.
- Facilitate respect for the diversity of human cultures, institutions, and experiences in curricular and co-curricular education.
- Cultivate intellectual community among students and faculty.
- Invest in faculty development, innovative pedagogies, and an engaging environment for learning.

**Goal 2** – Facilitate the timely attainment of educational goals of our diverse student population. Strategies:

- Identify and remove barriers to graduation.
- Bring classes to students using advanced technologies and multiple delivery formats.
- Design and implement innovative policies and processes that facilitate student success.
- Connect students with university services that address their individual needs.
- Ensure that faculty and staff understand their roles and responsibilities in facilitating student success.

**Goal 3** – Gain distinction as a doctoral research university. Strategies:

- Recruit, retain, and support highly qualified faculty, staff, and students from diverse backgrounds.
- Identify and invest in select areas of excellence with the greatest potential for economic, societal, and cultural benefit.
- Build select doctoral programs with a priority in professional and STEM disciplines.

- Build infrastructure to keep pace with growing research and creative activity.
- Design systems to support and reward interdisciplinary collaboration.

**Goal 4** – Align university programs and activities with community needs. Strategies:

- Include community impact in the creation and assessment of university programs and activities.
- Leverage knowledge and expertise within the community to develop mutually beneficial partnerships.
- Collaborate with external partners to increase Idaho students' readiness for and enrollment in higher education.
- Increase student recruitment, retention, and graduation in STEM disciplines.
- 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. Strategies:

- Reinvent our academic and business practices to improve service and efficiency.
- Simplify or eliminate policies and regulations that waste effort and resources.
- Invest in faculty and staff to develop key competencies and motivate top performance.
- Break down silos that inhibit communication, collaboration and creativity.
- Provide widespread and timely access to reliable and understandable data, and use it to drive decision-making across the university.
- Build an infrastructure to encourage and accommodate external funding, philanthropic support, private-sector relationships, and a diversity of funding models.
- Develop and implement a model for resource allocation that supports strategic goals and promotes 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 22,000 students. The school is in the midst of a transformation that nurtures its traditional strengths, while expanding its capabilities in research and scholarly activity. This is not a revolution, but instead an evolution that reflects the integral part Boise State plays in contributing to the quality of life in the Treasure Valley and beyond.

During its history, Boise State University has operated under the leadership of six 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) and Dr. Robert W. Kustra (2003-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 which 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 165th Avenue N.E., Suite 100, Redmond, WA 98052, (425) 558-4224, 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.
- 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
- Council for Accreditation of Counseling and Related Educational Programs
- 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 Council for Accreditation of Teacher Education
- National Environmental Health Science and Protection Accreditation Council
- National League for Nursing Accrediting Commission

## State Authorization and Distance Education Beyond Idaho

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

Due in part to the increased popularity of distance 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 postsecondary education, to preserve the integrity of an academic degree and to instill greater consumer protection for its student 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.

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 and contact the academic department in advance of application and enrollment and periodically thereafter.

Boise State University has taken steps to protect its students and operations through nationwide compliance and participates in a voluntary State Authorization Reciprocity Agreement (SARA) encompassing many states. Elsewhere, Boise State University has been granted authorization or exemption or can operate without such authorization because the state's laws do not pertain to a public institution, to an accredited institution or to the University's activities in that state.

Some online programs may not be available in some states. Please contact the academic department in advance of application. More specific information about state authorization and program availability can be found at: http://ecampus.boisestate.edu.

## 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 many 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 nine doctoral degrees, 82 master's degrees, 21 graduate certificates and 98 undergraduate degrees.

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, wellness and SHIP–are integrated under one roof in the Norco Nursing and Health Sciences Building. The Office of Advising and Academic Enhancement, the Career Center and the Testing Center are located together in the Academic and Career Services Building.

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, Engineering Building, Fine Arts Building, Liberal Arts Building, Mathematics Building, Micron Engineering Center, Morrison Civil Engineering Building, Multipurpose Classroom Building. The Interactive Learning Center supports the latest in technology with 12 general use classrooms, multi-media 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 Arts, 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's 17,000-square-foot Aquatics Center is a hub for water activities.

Boise State University students also enjoy the Student Union, which provides facilities for social, recreational and cultural activities. In addition to a quick-copy center and dining areas, the Student Union contains a bowling alley and games center, several lounges, the Boise State University 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.

Taco Bell Arena is Idaho's largest multi-purpose arena. When not filled with fans of Bronco basketball or gymnastics, Taco Bell Arena is the site of concerts, professional sporting events and family entertainment. Nearby is Bronco Stadium, with a seating capacity of 37,000 and the university's iconic blue playing field.

## The Albertsons Library

Dean: Tracy Bicknell-Holmes, (208) 426-1234

Associate Dean: Peggy Cooper, (208) 426-1234

The Albertsons Library provides access to an extensive array of online journals, research databases, reference works, newspapers, books and eBooks, and other resources for research and learning. Study spaces for individuals and groups are available throughout the library. Reference librarians provide help to students in the library and online with their research. The library has 120 desktop computers available for student use and 61 laptops available for student checkout. There also are 30 iPads available for checkout.

The library's holdings exceed 2 million items, including access to:

- 750,000 total volumes
- 96,000+ electronic journals
- 300+ online databases
- 100,000+ electronic books

The library website http://library.boisestate.edu links to information resources including the library catalog, databases, online journals, and reference sources.

Distance education students can find information on using the library and obtaining materials to support their coursework. Students have access to all library online resources both on and off campus.

The Reference area is the information hub of the library where librarians are available to provide on-demand assistance and guidance in conducting research using library resources. Librarians with subject expertise offer individual research appointments to students to help guide the discovery of materials to support their class assignments and research. Research resources include an extensive collection of discipline-specific research databases and journals, and numerous specialty databases, handbooks, encyclopedias, dictionaries, U.S. government documents and maps.

The Special Collections area contains manuscript collections, rare books, Basque studies material, and the university archives in addition to housing the papers of Senator Len B. Jordan, Senator Frank Church, and Interior Secretary/Governor Cecil D. Andrus. Selected resources from the department's photo collections are being digitized and appear online at http://digital.boisestate.edu. This area also maintains the Cecil D. Andrus and Frank Church Rooms. The Warren McCain Reading Room, located on the second floor, contains a growing collection of books and materials about the literature, anthropology and history of the American West and the Westward Movement.

## Computer Resources

Computer labs, kiosks and print stations are located throughout most campus locations where students attend classes and congregate, and provide access to a wide variety of software on Windows and Mac computers.

In addition, computer laptops and tablets are available for students to check out from the Zone locations in the Interactive Learning Center, the Micron Business and Economics Building, Multipurpose Building and Student Union building.

General-use computer labs are located in the Zone locations. See http://oit.boisestate.edu/labs for more information.

Boise State University provides Google Apps accounts for all students, including BroncoMail Gmail accounts.

As a Boise State University 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, men's and women's basketball, golf, tennis, indoor and outdoor track and field and cross country, soccer, softball, swimming and diving, and volleyball. The university competes in the PAC-12 in wrestling and in the Mountain Rim Gymnastics Conference in women's gymnastics. Students who wish to participate in intercollegiate athletics should contact the head coach of the sport for which they wish to participate. A listing of head coaches is provided by calling the Athletic Department at (208) 426-1288, or on the web at www.broncosports.com.

The *Equity in Athletics Disclosure Report for Boise State University* is available online at http://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 University offer the opportunity to pursue your education in more than 180 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 University.)

**Table 1.1**
**Academic Organization of Boise State University**

**College of Arts and Sciences**
- Anthropology
- Art
- Associate of Arts/Science Programs
- Bachelor of Applied Sciences Program
- Biological Sciences
- Chemistry and Biochemistry
- Communication
- English
- Environmental Studies Program
- Gender Studies Program
- Geosciences
- History
- Mathematics
- Multidisciplinary Studies Program
- Music
- Philosophy
- Physics
- Psychology
- Sociology
- Theatre Arts
- World Languages

**College of Business and Economics**
- Accountancy
- Economics
- Information Technology and Supply Chain Management
- International Business
- Management
- Marketing and Finance

**College of Education**
- Counselor Education
- Curriculum, Instruction, and Foundational Studies
- Early and Special Education
- Educational Technology
- Literacy, Language, and Culture

**College of Engineering**
- Civil Engineering
- Computer Science
- Construction Management
- Electrical and Computer Engineering
- Materials Science and Engineering
- Mechanical and Biomedical Engineering
- Organizational Performance and Workplace Learning

**College of Health Sciences**
- School of Allied Health Sciences
  - Community and Environmental Health
  - Kinesiology
  - Radiologic Sciences
  - Respiratory Care
- School of Nursing
- School of Social Work

**College of Innovation and Design**
- Games, Interactive Media, and Mobile Program
- Human and Environmental Systems Research Group
- Leadership and Human Relations

**School of Public Service**
- Criminal Justice
- Military Science
- Political Science
- Public Policy and Administration

**Graduate College**
- Coordinates the graduate programs of the respective colleges and departments

**Honors College**
- Honors Program including Honors courses
- Interdisciplinary Studies

# College of Arts and Sciences

Dean: Tony Roark, Ph.D.
Education Building, 6th Floor, Room 601
Phone: (208) 426-1414 Fax: (208) 426-3006

Associate Dean: Leslie Durham, Ph.D.
Phone: (208) 426-1414

Associate Dean: Clyde J. Northrup, Ph.D.
Phone: (208) 426-1414

## 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.

## Departments and Programs

- Anthropology
- Art
- Associate of Arts/Science Programs
- Bachelor of Applied Sciences Program
- Biological Sciences
- Chemistry and Biochemistry
- Communication
- English
- Environmental Studies Program
- Gender Studies Program
- Geosciences
- History
- Mathematics
- Multidisciplinary Studies Program
- Music
- Philosophy
- Physics
- Psychology
- Sociology
- Theatre Arts
- World Languages

## 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 Academic Success, located in Room 117 of Riverfront Hall, (208) 426-2663, 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 Department is accredited by the National Association of Schools of Art and Design; the Chemistry Department offers a B.S. 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 Arts 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 two exceptions: several programs offered by the Art Department require a portfolio review for admission, and 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. Applications for scholarships are available from the Financial Aid Office, Administration Building, Room 113, (208) 426-1664, and online at http://financialaid.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 complete list of officially recognized student organizations can be found at: http://boisestate.orgsync.com/organizations.

# College of Business and Economics

Dean: Kenneth Petersen, Ph.D.
Micron Business and Economics Building, Room 3138
Phone: (208) 426-1125
http://cobe.boisestate.edu

Associate Dean, Faculty and Administrative Affairs: Diane Schooley-Pettis, Ph.D.
Micron Business and Economics Building, Room 3140
Phone: (208) 426-1125

Associate Dean, Academic Programs: Keith Harvey, Ph.D.
Micron Business and Economics Building, Room 3136
Phone: (208) 426-1125

Director, COBE Student Services Center: Debi Mundell
Micron Business and Economics Building, Room 1123
Phone: (208) 426-3859

## Departments and Programs

- Accountancy
- Economics
- Information Technology and Supply Chain Management
- International Business
- Management
- Marketing and Finance

## Mission

The mission of the College of Business and Economics is to provide a high-quality learning environment with a faculty and staff dedicated to delivering innovative academic programs, conducting meaningful research, and supporting regional economic development.

Distinguishing Characteristics:

- Student Focused – Our graduate and undergraduate programs develop students into successful long-term contributors to society, effective problem solvers, and ethical leaders;
- Knowledge Creation and Sharing – Our faculty create and disseminate valuable knowledge for both our academic and business communities;
- Practices that Transform – We translate cutting-edge business and economic knowledge into practices that enhance the competitiveness and long-term sustainability of organizations;
- Passion and Quality – We have a creative, innovative and entrepreneurial culture with a commitment to continuous improvement and the highest quality in all endeavors.

## 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.

## Student Advising

Students are assisted in selecting appropriate courses and a business major through the joint efforts of faculty advisors and the college's Student Services Center. Freshmen, sophomores, and new transfer students should contact the College of Business and Economics Student Services Center, in the Micron Business and Economics Building, Room 1123, (208) 426-3859, or e-mail the Center at: stuserv@boisestate.edu.

## Admission Requirements

Students interested in pursuing a degree in the COBE (except for B.A. in Economics and B.A. in Economics, Social Science, Secondary Education Emphasis) must be admitted to the college. Admission to COBE is required before a student may enroll in upper-division business and economics courses, with the exception of seven "open" courses, which are:

- ACCT 302 Survey of Federal Income Taxation
- ECON 322 Urban Economics
- ECON 333 Natural Resource Economics
- HRM 305 Human Resource Management
- ITM 310 Business Intelligence
- MGMT 301 Leadership Skills
- MKTG 301 Principles of Marketing

Admission to COBE is competitive and based on various academic criteria, such as overall GPA, performance in gateway courses, and other business and economics courses. Meeting the criteria does not guarantee admission. Please see the COBE advising website: http://cobe.boisestate.edu/studentadvising/ to obtain specific information about the application process and application deadlines.

To be considered for admission, students must:

- Complete each of the following gateway courses with a grade of C- or better:
  - ACCT 205 Introduction to Financial Accounting
  - ACCT 206 Introduction to Managerial Accounting
  - BUSCOM 201 Business Communication
  - BUSSTAT 207 Statistical Techniques for Decision Making I
  - ECON 201 Principles of Macroeconomics
  - ECON 202 Principles of Microeconomics
  - GENBUS 101 Business for the New Generation
  - ITM 104 Operating Systems and Word Processing Topics
  - ITM 105 Spreadsheet Topics
  - MATH 160 Survey of Calculus
- Meet minimum cumulative GPA requirement of 2.5. A minimum cumulative GPA of 2.5 must be maintained in order to remain admitted to COBE.

## 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 http://financialaid.boisestate.edu and http://cobe.boisestate.edu.

## Internships

Boise area companies and governmental institutions provide exceptional opportunities for students to develop business skills in a professional environment. Students may do internships overseas or spend a semester or year abroad. Internship assignments are jointly supervised by company management and Boise State University College of Business and Economics faculty members. Academic credit is awarded for internships and financial compensation is usually available. More than 50% of graduating seniors have had relevant professional internships and half of these students accept full-time career offers from the internship employer. More information is available from the department offering your major.

# College of Education

Dean: Richard Osguthorpe, Ph.D.
Education Building, 7th Floor, Room 704
Phone: (208) 426-1611 Fax: (208) 426-4365
E-mail: RichardOsguthorpe@boisestate.edu
http://education.boisestate.edu

Interim Associate Dean: Jennifer Snow, Ph.D.
Education Building, 7th Floor, Room 706
Phone: (208) 426-1991
E-mail: JenniferSnow@boisestate.edu

Associate Dean for Research and Advanced Programs, Keith Thiede, Ph.D.
Education Building, 7th Floor, Room 705
Phone: (208) 426-1731
E-mail: KeithThiede@boisestate.edu

## Departments and Programs

- Counselor Education
- Curriculum, Instruction, and Foundational Studies
- Early and Special Education
- Educational Technology
- Literacy, Language, and Culture

The college also works in collaboration with other colleges to prepare secondary education teachers.

## 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 National Council for the Accreditation of Teacher Education (NCATE). The Professional Standards Commission of the Idaho State Board 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, 426-2756. Students are also advised by the faculty of the department in which the program major is housed.

## Office of Teacher Education

Phone: (208) 426-2756

The Office of Teacher Education is responsible for overseeing the development of cooperative and collaborative arrangements with our public and private school partners, including professional development schools. In addition, this office coordinates all field experiences and applications for certification.

The Office of Teacher Education assists 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.

# College of Engineering

Dean: Amy Moll, Ph.D.
1015 Grant Avenue, Room 202
Phone: (208) 426-1153 Fax: (208) 426-4466
http://coen.boisestate.edu/

Associate Dean for Academic Affairs: Janet Callahan, Ph.D.
Phone: (208) 426-5983
E-mail: janetcallahan@boisestate.edu

Assistant Dean for Research and Infrastructure: Rex Oxford
Phone: (208) 426-5744
E-mail: roxford@boisestate.edu

## Departments and Programs

- Civil Engineering
- Computer Science
- Construction Management
- Electrical and Computer Engineering
- Materials Science and Engineering
- Mechanical and Biomedical Engineering
- Organizational Performance and Workplace Learning

## 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, www.acce-hq.org.

## Mission

Through an unshakable focus on learning, we strive to provide accessible, high-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. We value experimentation and change in the learning process, and 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 have active research groups, providing opportunities for undergraduate students to conduct research in their laboratories, participate in multi-disciplinary 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/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 http://financialaid.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. A sample cooperating institution is The Instituto Tecnologico y de Estudios Superiores de Monterrey, Guadalajara, Mexico. The College of Engineering is also a member of the Global Engineering Education Exchange (Global E3), an international program designed specifically for engineering students. Participating universities can be found at http://www.iie.org/Programs/GlobalE3/Members. Students interested in participating in such a exchange program should contact their advisor at Boise State.

## 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:

- Association of Computing Machinery-Women (ACM-W)
- BioLogic
- Boise State IEEE Student Chapter
- 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
- Engineers Without Borders (EWB) Student Chapter
- Eta Kappa Nu (National Honorary Electrical Engineering Society)
- 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
- Sigma Lambda Chi Honor Society (Construction Management)
- Society of Hispanic Professional Engineers (SHPE) Student Chapter
- Society of Women Engineers (SWE) Student Chapter

# College of Health Sciences

Dean: Tim Dunnagan, Ed.D.
Norco Nursing and Health Sciences Building, Room 408
Phone: (208) 426-4141 Fax: (208) 426-3469
http://hs.boisestate.edu

Associate Dean: Ron Pfeiffer, Ed.D.
Norco Nursing and Health Sciences Building, Room 408
Phone: (208) 426-4141 Fax: (208) 426-3469
http://hs.boisestate.edu

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.

## Departments and Programs

- School of Allied Health Sciences
  - Community and Environmental Health
  - Kinesiology
  - Radiologic Sciences
  - Respiratory Care
- School of Nursing
- School of Social Work

## Accreditation

The college's degree programs in athletic training, diagnostic sonography, environmental health, health information technology, nursing, radiologic sciences, 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 technical 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 also perform well in prerequisite courses to enhance their chance for acceptance.

## Cooperating Agencies

Boise State University offers students a unique opportunity to learn a health profession in state-of-the-art regional medical centers. As a foundation, this learning environment is made possible by a supportive relationship among public, private, and nonprofit health agencies, thereby providing students 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
- McCall Memorial Hospital
- Micron Family Center
- Nampa Family Justice Center
- Northwest Hospital and Medical Center
- Outlying area hospitals
- Roman Catholic Diocese St. Mary's Catholic Church
- Saint Alphonsus Health System
- St. Luke's Health System
- Treasure Valley Hospice
- Utah State University
- Western Idaho Community Action Partnership

## Centers and Institutes

### Center for Excellence for Environmental Health and Safety

The CEEHS exists to provide training and certificate programs for environmental health professionals throughout Idaho. In addition, the center serves as a repository of information on environmental issues and houses the federally funded Occupational Safety and Health Administration (OSHA) consultation program for Idaho.

### Center for Health Policy

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 the Study of Aging

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: facilitating faculty and student interdisciplinary research in areas related to aging, providing educational materials and programs on topics of interest to scholars, agencies serving the aging, the general public, and 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, 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 University provides high-quality curriculum for our students and appropriate professional education for health agencies in the Boise State University 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

- 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
- Student Association for Radiologic Technologists
- Student Nurses Association

# College of Innovation and Design

Dean: Gordon Jones, Ph.D.
http://coid.boisestate.edu

## Mission

The College of Innovation and Design (COID) is a university-wide hub focused on transforming teaching, learning, and research at Boise State University. Leveraging the speed, collaboration, and risk-taking of a start-up, the college inspires and supports faculty, students and community members from diverse disciplines to create new pathways of learning that anticipate the demands and opportunities of our ever-changing world and workplace.

## Approach to Learning

The College of Innovation and Design serves as an academic laboratory where faculty and students from across the university can share ideas for redesigning learning strategies, research methods, and degrees. Our structure is multifaceted. Through a combination of majors, certificates, badges, and programs, we offer a framework of learning that allows for divergent thinking. COID features a learning platform focused on both finding problems and then creating solutions, and it utilizes new methodologies to increase the analytic capacity of its students. The college goal is to produce graduates who have an interdisciplinary command of the world and who are not constrained in their ability to learn beyond one field of expertise.

## Projects

The College of Innovation and Design has multiple foundational projects in development:

- **Bridge to Career** A program that will develop badges and certificates in skills and knowledge correlated to employability, encouraging students to reach across disciplinary lines to gain credentials relevant to the job market.
- **Certificate in Leadership and Human Relations** A certificate that leverages experiential learning to prepare students for leadership in multiple contexts in a changing world.
- **Gaming, Interactive Media and Mobile Technology Major** A program that will allow students to graduate with the knowledge to produce and manage innovative hardware and software that increase the usability of and pioneer new applications in interactive media's technological platforms.
- **Graduate Certificate in Energy Analysis** A certificate that will provide students studying science, technology, engineering and math – as well as other disciplines – a deeper understanding of their own field as well as the cross-disciplinary knowledge needed to succeed in an evolving energy climate.
- **Human Environment Systems Group** A research community emphasizing the application of quantitative approaches that answer complex social, scientific, and engineering questions about systems in which humans and the natural environment interact.
- **Narrative Arts Project** A professional program that empowers students with an understanding of story and how to incorporate the narrative arts into careers and fields where clear and compelling communication is fundamental to success.
- **Vertically Integrated Projects** A program offering large-scale research projects that are both multidisciplinary and multiyear, focusing on challenging, real world problems and enabling undergraduate teams to work together with faculty and graduate students in a way that benefits everyone.

## Community Partnership

The College of Innovation and Design also plays an important role in how Boise State serves university partners in the community. Because requests for the research expertise of Boise State faculty, students, and staff seldom fall neatly in the jurisdiction of one department or college, we facilitate interdisciplinary collaboration to meet the needs of our community partners. Our focus is placed on problem-finding, idea creation, and problem-solving that focuses on the change management process in organizations.

# Graduate College

Office of the Graduate Dean
Dean: John R. Pelton, Ph.D.
Associate Dean: Christopher L. Hill, Ph.D.
Riverfront Hall, Room 307
Phone: (208) 426-3647 Fax: (208) 426-2789

Graduate Admission and Degree Services
Supervisor: Linda Platt
Riverfront Hall, Room 307
Phone: (208) 426-3903/4204/1337 Fax: (208) 426-2789
http://graduatecollege.boisestate.edu/
E-mail: gradcoll@boisestate.edu

Graduate Recruiting Office
Director: Katie Stone
Riverfront Hall, Room 307
Phone: (208) 426-GRAD (4723) Fax: (208) 426-2789

Thesis and Dissertation Office
Coordinator: Jodi Chilson
Riverfront Hall, Room 307
Phone: (208) 426-3604 Fax: (208) 426-2789

The Graduate College is the only academic unit at Boise State University whose sole concern and primary advocacy is graduate education. The Graduate College provides institutional oversight for more than 90 graduate curricula established across the academic colleges and schools, and awards approximately 850 graduate degrees and certificates each year. These curricula 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 research-focused 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 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 strategic development of graduate programming and policy, problem resolution for individual faculty members and graduate students, and participation in

regional and national forums on graduate education. The Graduate College also helps the university maintain a culture of collegiality and ethical behavior through its dedication to 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, available online at http://registrar.boisestate.edu/wp-content/uploads/2013/11/senior_permit.pdf, in Graduate Admission and Degree Services (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 in this catalog).

## Boise State University Graduate Catalog

The *Boise State University Graduate Catalog*, is available online at http://graduatecatalog.boisestate.edu.

# Honors College

Dean: Andrew Finstuen, Ph.D.
Driscoll Hall
Phone: (208) 426-1122 Fax: (208) 426-1247
www.boisestate.edu/honors

## 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.

# School of Public Service

Dean: TBA

Interim Associate Dean: Andrew Giacomazzi, Ph.D.
Education Building, 7th Floor
Phone: (208) 426-1368 Fax: (208) 426-4318
http://sps.boisestate.edu/
E-mail: schoolofpublicservice@boisestate.edu

## Departments and Programs

- Criminal Justice
- Dispute Resolution
- Military Science
- Political Science
- Public Policy and Administration

## Centers and Institutes

- Andrus Center for Public Policy
- The Blue Review
- Center for Dispute Resolution
- Center for Idaho History and Politics
- Energy Policy Institute
- Frank Church Review
- Public Policy Research Center

## 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 is comprised of rich and diverse academic programs, including Criminal Justice (A.S., B.S., M.A.), Military Science (Minor), Political Science (B.S.), and Public Policy and Administration (MPA, Ph.D.), as well as talented affiliated faculty from departments and programs across the university. The mission of the school also is supported by a variety of centers and institutes that facilitate research and public engagement, including the Andrus Center, the Center for Dispute Resolution, Center for Idaho History and Politics, Energy Policy Institute, Frank Church Institute, and the Public Policy Research Center.

Together, these complementary academic programs, centers and institutes strive to achieve local relevance with theoretical and applied research, as well as outreach provided to communities, local governments and businesses. National recognition is achieved with innovative and relevant scholarship that enriches our society.

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

The bridging of disciplines across the university and the larger community 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, including the following:

- Democratic and Collaborative Governance in the New American West
- Policy Analysis
- Regional Planning and Development
- Sustainability
- Systems of Law and Justice

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 seeks to provide professional expertise and promote public discourse and engagement across groups to produce innovative solutions to pressing and complex political, governmental, social, economic and environmental concerns.

# Division of Extended Studies

Dean: Mark Wheeler
Associate Dean: Peter Risse
220 E. Parkcenter Boulevard
Phone: (208) 426-1709 Fax: (208) 426-3467
extendedstudies.boisestate.edu/
E-mail: ESTellUs@boisestate.edu

## 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 over 20 academic degree and certificate programs that are offered fully online for students choosing to attend Boise State fully online. In addition, 300 unique course titles are available in online course sections for students who are unable to attend in-person classes or need the flexibility of fitting classes into their life.

The format of online classes and programs are comparable to traditional classes with regard to schedule and 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 on a regular basis during each week.

For more information about eCampus and the programs and classes offered online, and whether this is a format that is appropriate for you - visit http://ecampus.boisestate.edu.

### Summer Programs

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

The summer program offers over 600 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 my.boisestate.edu. For more information about summer sessions, visit summer.boisestate.edu or call (208) 426-1709.

### Boise State AfterWork

Boise State AfterWork provides a variety of unique and flexible degree completion options at multiple locations that meet the diverse educational, professional, and personal needs of Boise State's adult and nontraditional students. Classes are offered in the evening, on weekends, and online throughout the year—including summer. The degree programs available are:

- Accountancy
- Bachelor of Applied Science
- Communication
- Criminal Justice
- Elementary Education
- General Business
- Health Science Studies
- Multidisciplinary Studies

For more information about Boise State AfterWork visit www.boisestate.edu/afterwork or contact the advisor at afterwork@boisestate.edu or (208) 426-3185.

### Weekend Workshops

A variety of workshops are available on weekends. For more information about workshops, visit http://extendedstudies.boisestate.edu/weekend-classes/ or call (208) 426-1709.

### Boise State Regional Sites

The Division of Extended Studies offers a broad range of academic courses at locations away from the Boise main campus. Depending on the location, students can earn associate, bachelor, and master's degrees. Advising and registration assistance are available at most sites. Customer service for Boise State textbook sales and library services is available via the web. The regional sites are:

Gowen Field
Harvard Street, Building #521, Gowen Field, Boise, ID 83705
(208) 272-3758 or (208) 426-1709

Boise State Center at CWI
Aspen Classroom Building
6002 Birch Lane, Nampa, ID 83687
(208) 562-3423

Mountain Home Air Force Base
Base Education Center
655 Falcon St., Mountain Home AFB, ID 83648
(208) 828-6746 or (208) 426-1709

Twin Falls
Hepworth Building, Room 144D
College of Southern Idaho Campus
P.O. Box 1238, Twin Falls, ID 83303
(208) 933-2305

Coeur d'Alene (graduate program)
Lewis-Clark State College, Coeur d'Alene
1031 N. Academic Way, Suite 144, Coeur d'Alene, ID 83814
(208) 292-2679

Lewiston (graduate program)
Lewis-Clark State College, Social Work Department
500 8th Ave., Lewiston, ID 83501
(208) 792-2783

For more information about these sites or the courses and programs offered call the site coordinator or visit www.boisestate.edu/extendedstudies/regionalsites.

### Concurrent Enrollment Classes 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 at a reduced fee of $65 per credit and are transferable to most other accredited colleges and universities across the United States.

State funds are available for juniors and seniors to help pay concurrent enrollment fees through Fast Forward Advanced Opportunities, through the Idaho State Department of Education.

As part of the program students have access to university resources such as a Boise State student ID card, access to the Writing Center, the Albertsons Library, an e-mail 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 complete list of partner high schools and courses offered go to: concurrentenrollment.boisestate.edu 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. No prerequisites are required for this program in which members share the common bond of intellectual curiosity. For a brochure and additional information, call (208) 426-1709 or visit osher.boisestate.edu.

### 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. Our on-campus and online courses are designed for busy professionals and progressive organizations who are eager to improve knowledge and practical skills while addressing their dynamic work challenges. The Center for Professional Development offers certificates of completion for non-credit courses in leadership, project management, business communication, human resources, and select specialties.

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

- Leadership
- Project Management
- Resolving Workplace Conflicts
- Team Development
- Writing for Clarity in Business

Training 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.

In addition the center can award CEUs to a professional organization's training which meets the nationally established criteria. See CEU information on the Center for Professional Development website for details on how to apply.

For a complete list of Center for Professional Development courses, please visit our website at http://cpd.boisestate.edu. 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 University College of Education, the Professional Development program enables teachers, and professional employees of school districts to earn credit required for recertification and salary increases. The graduate credits earned through the Professional Development program are offered at a reduced rate and cannot be used to satisfy degree requirements.

Through partnership with such vendors as Virtual Education Software Inc. and Idaho Digital Learning Academy, 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: http://educatorsdevelopment.boisestate.edu.

## 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* (http://deanofstudents.boisestate.edu) and the *Boise State University Policy Manual* (www.boisestate.edu/policy/).

## Your Rights and Responsibilities

Boise State University challenges its students to reach their highest levels of performance, encourages them to excel in academics and sports, and invites them to participate in the many cultural and social activities available at the university. At the same time, Boise State University expects students to conduct themselves 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

The Family Educational Rights and Privacy Act (FERPA) affords students certain rights with respect to their education records. These rights include:

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

   A student should submit to the registrar, dean, head of the academic department, or other appropriate official, a written request that identifies the record(s) the student wishes to inspect. The university official will make arrangements for access and notify the student 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, that official shall advise the student of the correct official to whom the request should be addressed.

2. The right to request the amendment of the student's education records that the student believes are inaccurate, misleading, or otherwise in violation of the student's privacy rights under FERPA.

   A student who wishes to ask the university to amend a record should write the university official responsible for the record, clearly identify the part of the record the student wants changed, and specify why it should be changed.

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

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

   The university can disclose education records without a student's 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 date of birth
- your local address
- your e-mail 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 on which it was awarded
- the dean's list and other honors released to the newspapers

As of January 3, 2012, the U.S. Department of Education's FERPA regulations expanded the circumstances under which 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, log on to myBoiseState at http://my.boisestate.edu/ and click on the FERPA Directory Restrictions link.

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 **privacy release form** to allow individuals other than yourself to access your educational or financial records. Log on to myBoiseState at http://my.boisestate.edu/, select Campus Personal Information, FERPA Restrictions, scroll down and select Edit FERPA/Directory Restrictions, and select Restrict or Release.

## 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. Students are expected to adhere to the rules and regulations as set forth in the *Boise State University Student Code of Conduct*. Therefore, all work submitted by a student must represent that student's own ideas and effort; when the work does not, the student has 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 a student:

- buys a paper or other project, then seeks to receive credit for the paper or project
- copies from another student's exam, either before, during, or after the exam
- uses "crib notes" while taking an exam or uses information stored in a computer or calculator (if prohibited from doing so)
- allows another person to take an exam in his or her place or takes an exam for another person
- collaborates on take-home exams when such collaboration is forbidden
- copies the work of another person and attempts to receive credit for that work
- fails to properly document source material in a paper or project
- receives 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 in which the dishonesty occurs. If a student is responsible for academic dishonesty, the student 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*

## Notice of Nondiscrimination on the Basis of Disability

In accordance with Section 504 of the Rehabilitation Act of 1973 and the Americans with Disabilities Act (ADA), Boise State University prohibits discrimination on the basis of disability in its admission or access to, or treatment or employment in, its services, programs, and activities. For more information, including grievance procedures for complaints made pursuant to this notice, please see Boise State University Policy 1060, Non-Discrimination and Anti-Harassment, which can be found at http://policy.boisestate.edu/governance-legal/nondiscrimination-antiharassment/.

Students who require disability-related services or accommodations are encouraged to contact the Disability Resource Center, located in the Lincoln Garage on the university's main campus, or by phone at (208) 426-1583. More information on services provided by the Disability Resource Center is available at http://drc.boisestate.edu.

Employees who require disability-related services or accommodations are encouraged to contact the university's Equal Employment Opportunity/Affirmative Action Office located in the Campus School on the university's main campus, or by phone at (208) 426-1616. More information on services provided by the EEO/AA Office is available at http://hrs.boisestate.edu/employees/eeoaa/.

Boise State's 504 Coordinator 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 about related to the university's obligations described in this notice and those who wish to file a complaint may contact Boise State's 504 Coordinator:

Annie Kerrick, Office of the Dean of Students, Norco Building (1529 Belmont Street), Suite 116, 1910 University Drive, MS 1370, Boise, ID 83725. Phone: (208) 426-1527, e-mail: akerrick@boisestate.edu.

In addition to the 504 Coordinator, 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, Facsimile: (206) 607-1601, e-mail: OCR.Seattle@ed.gov.

Upon request, this notice is available in alternative formats from the 504 Coordinator.

## Notice of Nondiscrimination on the Basis of Sex

In accordance with Title IX of the Education Amendments of 1972, Boise State University prohibits discrimination on the basis of sex in its educational programs and activities, including: athletics; recruitment, admissions, financial aid, and scholarships; course offerings and access; hiring and retention; benefits; and other activities sponsored by Boise State. Title IX protects people of every sex and gender identity, from sexual harassment, sexual violence, dating abuse, and domestic violence. Certain cases of stalking may also be a form of discrimination on the basis of sex covered by Title IX.

Boise State's Title IX Coordinator monitors compliance with Title IX and coordinates the university's response to complaints of discrimination based on sex. Upon receipt of a complaint, the Title IX Coordinator may provide interim measures that are necessary to prevent further discrimination and remedy its effects.

For more information on Title IX, please visit http://deanofstudents.boisestate.edu/title-ix/. For the university policy related to this notice, including grievance procedures for complaints, please see Boise State University Policy 1060, Nondiscrimination and Anti-Harassment, which can be found at http://policy.boisestate.edu/governance-legal/nondiscrimination-antiharassment/.

Individuals with questions or concerns about Title IX and those who wish to file a complaint may contact Boise State's Title IX Coordinator: Sarah Green, Office of the Dean of Students, Norco Building (1529 Belmont Street), Suite 116, 1910 University Drive, MS 1370, Boise, ID 83725. Phone: (208) 426-1527, e-mail: akerrick@boisestate.edu.

In addition to the Title IX Coordinator, inquiries may be directed to the federal department responsible for enforcing Title IX: Office for Civil Rights, Seattle Office, U.S. Department of Education, 915 Second Avenue, Room 3310, Seattle, WA 98174-1099, phone: (206) 607-1600, facsimile: (206) 607-1601, e-mail: OCR.Seattle@ed.gov.

## Student Records

Universities routinely collect, store, and maintain many kinds of information about prospective, current, and former students. Boise State University is no exception. 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, and you have the right to request copies of those documents. If you request copies, Boise State University will provide them in a timely and efficient manner.

## Transcript Records

You may order official transcripts online through myBoiseState at http://my.boisestate.edu/. The Registrar's Office makes every effort to ensure that your transcript records are up-to-date and accurate. If you believe there is an error or an omission on your transcript, please contact the Registrar's Office, Administration Building, Room 110, (208) 426-4249.

## 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 University calculates your enrollment status according to Table 2.1. Requests for verification of enrollment status often come from such businesses as employment agencies, insurance companies, and lending agencies.

**Table 2.1**
**Schedule Used to Determine Undergraduate Enrollment Status (in Response to Outside Inquiries)**

| 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 according to the definitions provided in Table 2.2.

**Table 2.2**
**Student Classifications**

| 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. |

## Address Changes

Whenever Boise State University policies or procedures call for a university office to send written notification to a student, that obligation is fulfilled when that office mails the notification to the student's last address on record. Past students may update their address in person, by e-mail to regmail@boisestate.edu, or by sending in a change-of-address card from the post office to the Registrar's Office, Administration Building, Room 110. Currently enrolled students must update address information on to myBoiseState (http://my.boisestate.edu/) under the Student Center. Under personal information section, select Addresses.

## Name Changes

You should promptly report a name change. You may do so by going to http://registrar.boisestate.edu/forms/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 certified copy of a court order, a marriage certificate, or a dissolution decree reflecting the new name in full.

Note: If you are, or were at anytime, employed by the university (even as a student employee), you must report your name change to the Department of Human Resource Services, Campus School, Room 120, (208) 426-1616 (documentation requirements may differ).

## 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 above).

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 (http://my.boisestate.edu/) and select the change major tab. For more information, contact the Registrar's Office at (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. Appeals for current semester **complete withdrawals** should be directed to the Dean of Students Office. For more information about appeals and grievances, see the *Boise State University Policy Manual* (www.boisestate.edu/policy/) and the *Boise State University Student Handbook* (http://vpsa.boisestate.edu).

## Last Week of Classes

No test or examination is to be given during the last seven calendar days preceding the first day of the officially scheduled final exam period for the fall or spring semester (See the Academic Calendar for final exam period dates) with the following exceptions:

- In lab or performance classes where it is necessary
- No take home test or exam is to be due prior to the beginning of the officially scheduled examination period, although a take home final test or examination may be distributed during this time period
- Homework, papers, problem sets, and projects may be due during this time frame

## 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 students. The primary functions are to:

- Provide information about Boise State
- Host campus tours and other on-campus events
- Conduct information sessions
- Process applications for admission
- Evaluate application materials for admissibility to Boise State
- Coordinate international student admission

The following sections define the deadlines for admission applications, the process by which Admissions determines your admission status, and the standards that you must meet to be admitted to Boise State. Included are instructions to apply for admission (Table 3.2). You can also find this information at http://admissions.boisestate.edu.

Note: If you are planning to pursue graduate studies and are a U.S. citizen or permanent resident, you apply for admission through Graduate Admissions. For more information, see the *Boise State University Graduate Catalog* or contact Graduate Admission and Degree Services, Business Building, Room 307, (208) 426-3903.

## Application Priority Dates

To encourage prospective students to begin planning early, Boise State University has established priority dates for applying for admission. Priority dates to apply for admission as degree-seeking students are as follows:

- Fall Semester 2015: May 15, 2015
- Spring Semester 2016: November 15, 2015
- Summer Sessions 2016: May 15, 2016

Students are strongly encouraged to submit all application materials by the priority date. Students will be considered for degree-seeking admission after the priority date on a space-available basis. If you are not eligible for degree-seeking admission, you may still be admitted to the university as a nondegree-seeking student. 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. Nondegree-seeking students are not eligible to receive federal financial aid.

You may submit application materials at any time before the priority date; in fact, we encourage you to apply as early as possible.

## Admission Standards

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

To encourage students to be adequately prepared for college-level study, Boise State has implemented the following admission standards. For a description of the Admission Status, see page 28.

### Standards for Freshmen

**Graduated from an Accredited High School**

If you graduated from an accredited high school and are under 21, you will be considered for admission based on your high school grades and test scores on either the ACT or SAT. Boise State's admission index (Table 3.3) is used to determine your admissibility. This index assigns more weight to your high school grades than your test scores.

In addition, you must complete all courses in the Idaho College Admission Core (Table 3.1). If you have met the requirements of the index but have not completed all core classes, you will be considered for provisional admission.

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 at least a 2.50 unweighted cumulative high school grade-point average (GPA). In addition, you must have completed all courses in the Idaho College Admission Core (Table 3.1). If you did not complete all core classes, you will be considered for provisional admission. If your unweighted cumulative high school grade-point average (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 grade-point average (GPA) was a 1.99 or less, you are not eligible for degree-seeking admission. You may choose to attend Boise State as a nondegree-seeking student.

If you graduated from high school before 1989 and never attended college, you will be considered for regular admission.

**Table 3.1 — 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, i.e., Algebra I or Geometry, may be used as long as they contain all of the critical components (higher math functions) prescribed by the State Mathematics Achievement Standards. | At least 4 semesters taken in grades 10 through 12.<br>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, i.e., 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. |

**Note:** Students who have not completed the Idaho College Admission Core upon graduation may be considered for provisional admission status.

## Table 3.2 — How to Apply for Admission to Boise State University

To apply for undergraduate admission, submit to Admissions all materials indicated in the appropriate list below. For degree-seeking applicants, it is recommended that all admission materials be received in Admissions by the posted priority date (see page 24, "Application Priority Dates").

When submitting an application for admission, applicants 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

- *Application for Undergraduate Admission* with nonrefundable application fee.
- 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.
- Official ACT or SAT results posted on your high school transcript or received directly from the testing agency.**

### Transfer Applicants in Undergraduate Programs

- *Application for Undergraduate Admission* with nonrefundable application fee.
- 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 will transfer to Boise State with fewer than 14 earned transferable semester credits, also submit the following:

- Official high school transcript* showing date of graduation or GED test scores.
- Official ACT or SAT results.**

### Returning Applicants in Undergraduate Programs

If you previously enrolled at Boise State, you will maintain "active" status for up to two years after the last semester of enrollment in classes. Check your myBoiseState account at http://my.boisestate.edu/ before submitting a new application. If it has been more than two years since you last enrolled, you need to re-apply.

To re-apply, submit the following:

- *Application for Undergraduate Admission* with nonrefundable application fee.

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.
- Official ACT or SAT results, if you have earned fewer than 14 transferable semester credits.**

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

- *Application for Undergraduate Admission* with nonrefundable application fee.
- Official transcript* from the college or university granting the baccalaureate degree. If the degree is from Boise State University a transcript is not needed.

### Nondegree-seeking Applicants

- *Application for Undergraduate Admission* with nonrefundable application fee.
- Compass exam results, if you did not graduate from an accredited high school or earn a GED.

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

Submit the following:

- *Application for Undergraduate Admission* with nonrefundable application fee.

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.
- Official ACT or SAT results, if you have earned fewer than 14 transferable semester credits.**

### Applicants in Graduate Programs

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

### Applicants from Other Countries

Refer to Admission of International Students in this chapter. Information is also available for International Student Admissions at http://admissions.boisestate.edu/international/.

*To be official, transcripts must be sent by the issuing institution directly to Boise State Undergraduate Admissions.

**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.

## Table 3.3 — Boise State University Admission Index

**The Boise State Admission Index**

The Boise State Admission Index is used to evaluate your admissibility to Boise State. It combines high school GPA and ACT or SAT scores, placing the most weight on GPA. Find your GPA across the top and your test score down the left side. Draw a line from each toward the center until they intersect. If the intersection indicates you are an Excellent Candidate, you are highly likely to be admitted. If you are a Possible Candidate, admission will depend on several factors, including your academic record, date of application, class availability, and level of state funding received by Boise State. Unlikely Candidates will most likely not be admitted as degree-seeking students. Applicants in this range are encouraged to attend as nondegree-seeking students.

| | | HIGH SCHOOL GPA RANGE | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | From 3.14 | 3.09 | 3.03 | 2.97 | 2.91 | 2.86 | 2.80 | 2.74 | 2.69 | 2.63 | 2.57 | 2.51 | 2.46 | 2.40 | 2.34 | 2.29 | 2.23 | 2.17 | 2.11 | 2.06 | 2.00 |
| **ACT** | **SAT** | to 4.00 | 3.13 | 3.08 | 3.02 | 2.96 | 2.90 | 2.85 | 2.79 | 2.73 | 2.68 | 2.62 | 2.56 | 2.50 | 2.45 | 2.39 | 2.33 | 2.28 | 2.22 | 2.16 | 2.10 | 2.05 |
| 36 | 1600 | | | | | | | | | | | | | | | | | | | | | |
| 35 | 1560 | | | | | | | | | | | | | | | | | | | | | |
| 34 | 1510 | | | | | | | | | | | | | | | | | | | | | |
| 33 | 1460 | | | | | | | | | | | | | | | | | | | | | |
| 32 | 1420 | | | | | | | | | | | | | | | | | | | | | |
| 31 | 1380 | | | | | | | | | | | | | | | | | | | | | |
| 30 | 1340 | | | Excellent Candidate for Admission | | | | | | | | | | | | | | | | | | |
| 29 | 1300 | | | | | | | | | | | | | | | | | | | | | |
| 28 | 1260 | | | | | | | | | | | | | | | | | | | | | |
| 27 | 1220 | | | | | | | | | | | | | | | | | | | | | |
| 26 | 1190 | | | | | | | | | | | | | | | | | | | | | |
| 25 | 1150 | | | | | | | | | | | | | | | | | | | | | |
| 24 | 1110 | | | | | | | | | | | | | | | | | | | | | |
| 23 | 1070 | | | | | | | | Possible Candidate for Admission | | | | | | | | | | | | | |
| 22 | 1030 | | | | | | | | | | | | | | | | | | | | | |
| 21 | 990 | | | | | | | | | | | | | | | | | | | | | |
| 20 | 950 | | | | | | | | | | | | | | | | | | | | | |
| 19 | 910 | | | | | | | | | | | | | | | | | | | | | |
| 18 | 870 | | | | | | | | | | | | | | Unlikely Candidate for Admission | | | | | | | |
| 17 | 830 | | | | | | | | | | | | | | | | | | | | | |
| 16 | 790 | | | | | | | | | | | | | | | | | | | | | |
| 15 | 740 | | | | | | | | | | | | | | | | | | | | | |

***Note:*** *Boise State does not require the ACT Writing Exam. For ACT/SAT comparisons only the SAT Math and Critical Reading (formerly Verbal) scores will be combined. If your GPA or test score is not shown, contact Boise State Admissions for specific information.*

### Completed GED Certificate

If you earned the GED, you will be considered for admission based on a holistic review of your GED scores, ACT or SAT scores and a personal statement. During this review, we will assess your potential for academic success at Boise State.

### Home School or Unaccredited High School Graduate

If you graduated from an unaccredited high school or home school program and did not complete a GED, 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.

## Standards for Transfer Students

If you have earned 14 or more transferable semester credits, 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 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 more than 14 credits, but have not yet earned an associate degree or core certification, and have a GPA range from 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 have fewer than 14 transferable semester credits, the following items may be required and considered in the admission decision:

- 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 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 earned fewer than 14 academic semester credits, you will be considered for admission on the basis of your high school transcript or GED and your college record. If you are returning to Boise State with 14 or more earned college-level credits, you will be considered for admission based on your academic record at Boise State and at any colleges or universities you have attended. If you have attended any other colleges or universities since you were previously admitted to Boise State, you will need to have a cumulative 2.25 GPA or higher for all of your coursework (including Boise State), and be in good academic standing at the current/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 2.00 to 2.24, your application will be reviewed on a case-by-case basis to determine your potential for academic success. If you have earned an Associate of Arts or Associate of Science or are core certified from a regionally accredited academic institution, you will need a cumulative 2.00 GPA for all of your coursework (including Boise State). 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.

## 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 grade-point average 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 your intent is to ultimately pursue graduate studies, either as a nondegree or degree-seeking student, you apply through the Graduate Admission and Degree Services Office. 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. Students who graduated from a home school program or an unaccredited high school will need to meet nondegree-seeking COMPASS score requirements. 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.

### 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 University. Options include taking Boise State courses at your high school campus or taking courses at Boise State. To take courses on your high school campus, consult your high school counselor. To take courses on the Boise State campus, complete the Concurrent Enrollment Application. You will need to obtain the signature of your parent and high school counselor or principal. You must be at least 16 years of age or have completed at least half of your high school graduation requirements. You must also have a cumulative high school GPA of at least 3.00. For more information, call (208) 426-3750.

# Admission of International Students

**Standards for Freshmen Admission** You will be considered for admission on the basis of your secondary school transcript or marksheets and English language proficiency. Your secondary school grades must convert to a minimum U.S. cumulative GPA (grade-point average) of 2.00 and meet the pre-university requirements of your home country. If your converted U.S. cumulative high school grade-point average (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. If the transcript or marksheets are not in English, you must submit the official documents in the native language along with translated copies that have been verified or attested by the school you attended. In addition, you must demonstrate your English language proficiency by meeting one of the criteria noted in the English Language Proficiency section.

### Standards for Transfer Admission

If you have completed some coursework or a degree at the college or university level, you will be considered for admission as a transfer student on the basis of your college or university transcripts or marksheets and English language competency. Your transcripts or marksheets will be converted to a U.S. cumulative GPA (grade-point average) 4.00 scale. If you have earned 14 or more transferable semester credits, 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 earned the equivalent of 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 more than 14 credits, but have not yet earned an associate degree or core certification, and have a GPA range from 2.00 to 2.24, your application will be reviewed on a case-by-case basis to determine potential for academic success.

If official transcripts or marksheets are not in English, you must submit the official documents in the native language along with translated copies that have been verified or attested by the school you attended. You must provide official transcripts or marksheets from each college or university you have attended for admission consideration and to receive transfer credit.

World Education Services (WES), a recognized nonprofit organization, will evaluate transcripts submitted for transfer credit from schools located outside the U.S. They prepare evaluation reports that identify the U.S. equivalent of education completed in other countries. Boise State only accepts courses with grades of C or higher. All courses are transferred in with a grade of pass. Evaluation of foreign credits is an automatic process that occurs once you have been admitted as degree-seeking student and are enrolled as of the tenth day of classes. You may arrange for evaluation prior to the tenth day by contacting the Registrar's Office at (208) 426-4249 or at RegMail@boisestate.edu. If you have completed the equivalent of a U.S. bachelor's degree, your transcripts will not be evaluated.

Transfer students must also demonstrate English language proficiency by meeting one of the criteria noted in the English Language Proficiency section.

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

### Additional Required Materials

Along with academic records and proof of English language proficiency, all international students must submit an International Student Application for Admission and nonrefundable application fee.

After admission, students who plan to enter the United States on a student visa 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 following priority deadlines:

- Fall Semester 2015: May 15, 2015
- Spring Semester 2016: October 15, 2015

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 Office, interntl@boisestate.edu or (208) 426-1757.

### English Language Competency Requirement

International students at Boise State University must demonstrate English language proficiency as part of the admission process. 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 if scored within two years* of application to Boise State University. The minimum score required for admission is:

- TOEFL score of 500 (paper-based) or 61 (Internet-based) or better**
- IELTS overall score of 5.5 or better**

Additional options for demonstrating English language proficiency exist. Please refer to the full list of proficiency options at http://admissions.boisestate.edu/international/language-requirements.

*If it has been more than two years, but you are living in a country where English is the dominant language, you may also meet the requirement. Please contact the International Admissions Office for further information.

**With a TOEFL score of at least 450/46 or an IELTS score of 5.0, you may be eligible for the Language Bridge program as an undergraduate student to Boise State University. To participate in the Language Bridge program, you must first enroll in the Intensive English Program. Please refer to the Intensive English Program website at http://international.boisestate.edu/iep for information.

You may be exempt from this requirement if you are a native English speaker or if English is your first language. Please contact the International Admissions Office for further information.

### Language Bridge Program

If you are currently enrolled in the Intensive English Program, you may be granted permission by the program to apply for the Language Bridge Program. The Language Bridge program allows qualified students to study as a nondegree-seeking student without meeting the English Language Proficiency Requirement. However, you will be required to meet the English Language Proficiency Requirement prior to admission as a degree-seeking student, or you must qualify for admission through completion of the Intensive English Program direct admission program.

### Conditional Admission for International Undergraduate Students

Boise State University offers conditional admission to students who otherwise qualify for admission to the university as undergraduate students but do not have the minimum required English Proficiency test score. Conditional admission allows time for improvement in the English language. Along with official academic records, all international students seeking conditional admission must submit an International Student Application for Admission and nonrefundable application fee. Conditional Admission is only available to students who enroll in the Intensive English Program. You will be required to meet the English Proficiency Requirement prior to admission as a degree-seeking student.

### Health Insurance Coverage

International students enrolled in one or more credits must be covered by the university's student health insurance policy. The cost of this policy is included in student fees. If you have your own health insurance policy, you may be able to waive the Boise State Student Health Insurance Plan. Your health insurance must meet all of the waiver requirements listed at http://healthservices.boisestate.edu/services/insurance/ship/waiver/requirements/. Please note travel plans do not meet the requirements to file a health insurance waiver.

Waivers must be filed for both the fall and spring semesters by the 10th day of class. If your alternative health insurance plan meets these comparability requirements, please log on to my.boisestate.edu to submit your health insurance waiver application (MUST be filed online). After you are logged in, select Student Center, select Health Waiver App from the My Account menu in the Finances section.

## Your Admission Status

After reviewing your application and supporting materials, Admissions assigns you a particular admission status. Specifically, you will either be admitted with regular, provisional, conditional, special, 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.

### Provisional Status

You have been accepted for admission, but with provisions. Specifically, within three semesters you must complete 14 credits of coursework. Those 14 credits must include one English composition course, University Foundations 100 and two Disciplinary Lens courses. Each of the Disciplinary Lens courses must be from separate discipline clusters. You must earn a grade of C- or better in each of the courses. For more information about University Foundations courses, see Chapter 12—*Academic Programs and Courses*.

You are assigned provisional status if any of the following apply:

- You met Boise State's requirements for high school grade-point average and ACT/SAT scores, but did not complete all requirements for the Idaho College Admission Core (see Table 3.1).
- You earned a General Equivalency Diploma (GED) or graduated from an unaccredited high school or home school.

### Conditional Status

You have been accepted for admission, but have been granted this status because the transcript you submitted was in-progress. Once Admissions reviews your complete, official transcript, 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 your status changes.

### Special Status

You have been accepted for admission on a temporary basis until you submit final official graded transcripts or test scores. This is a temporary status given only to students who are admitted with unofficial transcripts due to special circumstances. Once Admissions reviews your complete official transcript and test scores, you will be assigned a final admission status. Your admission under special status may remain in effect for no longer than one semester. You will not be able to register for subsequent semesters until your status changes. In addition, transfer students admitted under special status will not have their previous coursework evaluated for transfer credit until all official transcripts are received.

### Denied Status

You do not meet the standards for admission and are denied as a degree-seeking student. You may inquire about enrolling as a part-time, nondegree-seeking student or petitioning this decision.

### 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, nondegree-seeking students are ineligible for federal financial aid.

## When You Are Admitted

Once admitted, you will receive notice of your admission status as well as information on the next steps to complete enrollment. Students who are entering Boise State for the first time as a degree-seeking student are expected to attend a BroncoVenture Orientation program. BroncoVenture Orientation will ease your transition into the Boise State community, provide you with academic advising, and aid you in course selection on-site.

## 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 provisional admission, you are encouraged to apply to Boise State as a nondegree-seeking student or attend a community college. 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, Student Union Building, First Floor, (208) 426-1156.

## 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 BSUINFO@boisestate.edu.

# Chapter 4 — Registration Policies and Procedures

This chapter discusses orientation, registration, dropping or adding courses, and withdrawals. Registration takes place each semester and summer session. It consists of three distinct phases: new, continuing and open registration. You will be assigned a registration appointment day and time. Beginning at that time and until registration closes, you can log onto your myBoiseState account and register. General descriptions of new, continuing and open registration are provided below.

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

## Academic Calendar

Boise State University's Academic Calendar, which lists all of the registration deadline dates for the current catalog year, can be found in the front of this catalog. The 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, as you will be held accountable for meeting these deadlines. Online at http://registrar.boisestate.edu/boise-state-academic-calendars/.

## 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 drop all of them (including classes and workshops that begin later in the semester and remove yourself from any waitlists) by logging on myBoiseState no later than the deadline (see the *Academic Calendar Deadlines by Session* table and the Rules for Dropping a Workshop) and dropping courses on your Student Center.

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 a 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, students register by appointment, on myBoiseState, 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.

### New and Transfer Students

If you are a new degree-seeking student (including transfer), you must RSVP for and attend a New Student Orientation program at which you will register for classes. New Student Orientation programs are held throughout the year; upon admission or readmission, you will receive an e-mail with directions to RSVP for a program. Space is limited in each program and you should RSVP at your earliest convenience.

New Student 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 and Family Programs Office at (208) 426-1679 or visit http://nsfp.boisestate.edu/ 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 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 and let them know you are a returning student.

### Nondegree-seeking Students

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

### Open Registration

Open registration for the fall and spring semesters begins Tuesday prior to the start of the term and runs through the 10th day of the semester. Open summer session registration begins in February. (See the Academic Calendar for specific dates.)

## Credit/Audit Status

During registration on myBoiseState, if space in the class is available, instead of taking the course for credit, you may register by selecting audit status with the understanding that you will receive neither credit nor a grade (A+ through F). 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 at (208) 426-4249.

## Adding Classes

Before the semester begins, you may add classes to your schedule on myBoiseState (http://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 until the deadline appropriate to the session. 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. Enter the permission number on your Student Center when you register for the class. (If you are registering for or adding an independent study, internship, or credit for prior learning, you may do so through the end of the sixth week of the semester.)

### Waitlisting

When attempting to enroll in a full course, most of the time you will be given the option of putting yourself on the waitlist for the course. Your eligibility to be on the waitlist depends on whether or not 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 e-mail 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 for date). 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 up to 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 a Request to Exceed 21 Credit Hours form. Enrolling in more than 17 credits will result in an overload fee.

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

## Dropping Classes

You may drop regular session classes from your schedule on myBoiseState (http://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 10th day of the semester, the class will not appear on your transcript. However, if you drop a class after the 10th day, 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's you can accrue). Workshops, short courses, five-week, and eight-week block courses have different deadline dates. (See the *Academic Calendar Deadlines by Session* table in this catalog for the exact deadline.)

### Drop Fee

As a student 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 at (208) 426-4249.

## Workshops

### Adding a Workshop

You must register for a workshop prior to the first day of the workshop. To enroll in a workshop that is full and hasn't started yet, you must submit a Registration Override Form, with the instructor's signature, to the Registrar's Office, Administration Building, Room 110, no later than the day before the workshop starts. (Workshops do not have permission numbers.)

### Rules for Dropping a Workshop

- A workshop will not appear on your transcript, if you drop the workshop prior to the day it starts.
- You will receive a grade of W on your transcript, if you drop on the day the workshop begins, or any day up until the last day before the workshop ends.
- You will receive a grade of F on your transcript, if you attempt to drop a workshop on the last day it is being held or later.

## 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 to the dean (or associate dean) of the college of the course using the Dropping 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. If the associate dean (or dean) signs the form, then you can proceed to request approval and signature from the instructor. The instructor may still deny the appeal. Once you receive all required signatures, you must submit the form to the Registrar's Office, Administration Building, Room 110, for processing. The form is located online at http://registrar.boisestate.edu/forms/students.shtml.

## Withdrawals

If you wish to leave the university in good standing (drop all courses) you must drop all your classes on myBoiseState. See the Academic Calendar Deadlines by Session table for specific deadlines for the various sessions. If the complete withdrawal for regular session is made after the 10th day of classes and you have not paid your fees, you are still responsible for the entire amount of fees incurred plus an 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. Complete withdrawal after the published deadline will only be granted by special appeal and because of extraordinary circumstances. For information regarding an **Appeal to Completely Withdraw From a Current Semester**, go to http://deanofstudents.boisestate.edu/studentwithdrawal/.

- You may accrue up to ten (10) withdrawals for a baccalaureate degree and up to five (5) for an associate degree.
- Any W's 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.
- A complete withdrawal (CW) will not count toward the ten total allowed or the two allowed per course.
- W's earned prior to Spring 2014 semester are not counted toward the number allowed.

Once you have exhausted the number of W's allowed, you may be removed from your major. You may earn an additional ten W's toward a second baccalaureate degree or an additional five W's 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 in which *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 and could have you reinstated in the class.

## 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.
- You fail to attend the first meeting of a class that meets once each week.
- You have not satisfied the entrance requirements for the class.

**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 submits a Faculty-Initiated Drop Form to the Registrar's Office. Students withdrawn from a course for failing to attend these specified class meetings may re-enroll in the course with the instructor's permission through the 10th day of the semester (see the *Academic Calendar Deadlines by Session* table in this catalog for the exact deadline of the various sessions). To withdraw a student for failing to satisfy entrance requirements, the instructor or the department must notify the student of the impending withdrawal and then request the withdrawal through the Registrar's Office. All faculty-initiated withdrawals will be removed from the student's record and will not appear on the student's transcript.

## Attendance Policy

You are responsible for attending courses for 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 the 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 on myBoiseState (http://my.boisestate.edu/) and remove yourself from any waitlists. 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 10th day of classes and you have not paid your fees, you are still responsible for the entire amount of fees incurred plus a $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.

Complete withdrawal after the published deadline will only be granted by special appeal and because of extraordinary circumstances through the Office of the Dean of Students. An online form, instructions and FAQs are found at http://deanofstudents.boisestate.edu; (208) 426-1527; Norco Building, Suite 116. 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. First, withdrawals will impact your compliance with Satisfactory Academic Progress. Please see the policy at http://financialaid.boisestate.edu/wp-content/uploads/2012/11/SAPAppeal.pdf. Complete withdrawals may also result in a financial obligation by you to return the unearned portion of any federal aid disbursed to you or to your student account. You will have to repay Boise State for any unearned aid which 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 on the web at http://financialaid.boisestate.edu/wp-content/uploads/2012/11/CompleteWithdrawalPolicy.pdf. 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. Call (208) 426-1664 for more information.

## Administrative Withdrawal from Boise State

An administrative withdrawal is the process by which Boise State University formally withdraws a student from the university, usually without the student's 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
- 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 10th 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 4.0 grading scale. Table 5.1 lists the letter grades that instructors use to document their evaluation of your work and to document 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, in "How to Calculate Your Grade-Point Average (GPA)."

**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 | .7 | Yes |
| F | Failure | 0 | Yes |
| P | Pass: satisfactory work equivalent to C or higher; credits earned | 0 | No |
| I | Incomplete (See "Incompletes" 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)

For each student, Boise State University calculates and documents three types of grade-point averages (GPA):

- cumulative GPA
- semester (term) GPA
- Boise State University 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 University 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 University GPA, the formula uses only quality points earned and GPA credits attempted at Boise State University 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)
- courses in which you have received the grade of I, for *incomplete* (until the I is changed to a letter grade)

## Incompletes

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

- Your work has been satisfactory up to the last three weeks of the semester.
- Extenuating circumstances make it impossible for you to complete the course before the end of the semester.

In order 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 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, the 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 to repeat 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. W's 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 W's nor CW's count.

If you have exhausted six 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.
- The maximum number of six repeats is not reset with a change of major.

Exceptions to the Repeat Count:

- Regular session courses dropped within the first ten 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.
- W's (withdrew from the course) or CW's (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. Students completing a second undergraduate degree are allowed a new repeat maximum of six courses.
- Remedial courses (e.g., MATH 015, MATH 025, ENGL 90) 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 University transcript including W's and CW's.

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

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 will be averaged, using both grades in the calculation of the GPA.

Beginning Fall 2001 and on, 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 University or at another institution in one or two semesters in which your GPA is less than 2.0. You must meet all of 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 University 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 University.

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.

## 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, below, shows the minimum Boise State GPA you must have in relation to the total cumulative credits earned (includes both transfer and Boise State credits) for determining probation or dismissal status.

**Table 5.2**
**Minimum Boise State University GPA Necessary to Remain in Good Academic Standing**

| Cumulative Credits Earned (Transfer and Boise State) | Minimum Boise State Cumulative GPA BSU GPA only—Transfer GPA not included |
|---|---|
| 0 to 6 | 1.00 |
| 7 to 32 | 1.60 |
| 33 to 64 | 1.80 |
| 65 or more | 2.00 |

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

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

Note: If you transfer credits to Boise State University and are admitted on probation, you must obtain at least a 2.0 GPA in your first semester. If you fail to do so, you will be dismissed from the university. For more information on transferring credits and admission status, see Chapter 3—Admissions, and Chapter 11—Obtaining a Degree at Boise State University.

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*.

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 any subsequent 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 available from the Registrar's Office, http://registrar.boisestate.edu/forms/student-forms/. You will be permitted no more than two reinstatements. A third dismissal is final.

## Final Examinations

Each semester, a schedule for final examinations is published on the Registrar's Office website at http://registrar.boisestate.edu/boise-state-academic-calendars/. This schedule defines the dates and times during which all final examinations must be scheduled. All in-class final exams must be given during the officially scheduled final examination periods. An exception to the schedule is allowed only on an individual basis with the exception to be arranged between the instructor and the student.

### 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, deferred payment, the senior-citizen rate, and insurance coverage for full-time students. 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, Visa, MasterCard, or Discover.

Access your student account on myBoiseState to find out deadlines for paying tuition, fees, and other changes. **Boise State does not mail out paper statements.** Login to http://my.boisestate.edu/. Once you are in, select Student Center (under the Finances section), then select Account Inquiry. Please contact the Payment and Disbursement Office, Administration Building, Room 101 or call (208) 426-1212 for specific fee information. Other financial information is available on the Student Financials website at http://www.boisestate.edu/finad/sfs/.

## 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 you must not have delinquent or past-due accounts with the university.

To enroll in the fee payment plan, you must complete the request on myBoiseState (Select Student Center, under the Finances section select Other Financial drop-down menu, select Enroll in Payment Plan, click on blue arrows). 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 the Payment and Disbursement Center, Administration Building, Room 101, or call (208) 426-1212.

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 you still owe. 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 University 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 University 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 University, 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 University uses a milestone of twelve credits per semester. Once you register for 13 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 http://www.boisestate.edu/finad/sfs/sfs_tuitionandfees.shtml.**

**Table 6.1**
**Full Tuition and Fees, Per Semester, as of Fall 2014**
**Undergraduate (13 credits or more)**

| Tuition and Fees | Resident | Nonresident |
|---|---|---|
| Tuition | $2310.25 | $8736.25 |
| Institutional Fees | $1009.75* | $1009.75* |
| Total (for up to 17 credits) | $3320.00* | $9746.00* |
| Overload Fee** | $170 per credit hour | $170 per credit hour |

*Does not include $1254.00 charge for Student Health Insurance Program (SHIP).
**An overload fee is imposed if you register for more than 17 credits.

In determining whether you have reached the milestone of 13 credits per semester, Boise State University 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 13-credit milestone. Please note, also, that developmental courses (such as MATH 25 Elementary Algebra) count as 3 credits each toward the 13-credit milestone, even though you earn no credits by taking the course.

**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 University.**

## Noncredit Bearing Courses

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

**Table 6.2**
**Noncredit Bearing Courses**

| Course | Credit Equivalent | Course | Credit Equivalent |
|---|---|---|---|
| CHEM 99 | 2 credits | MATH 25 | 3 credits |
| MATH 15 | 3 credits | MUS-APL 10 | 1 credit |
| | | THEA 10 | 1 credit |

## Other Fees and Charges

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

**Table 6.3**
**Partial Fees, Per Semester, as of Fall 2014**

| Fall or Spring Semester | Fees |
|---|---|
| Undergraduate -- 1-12 credits | $264.00 per credit hour* |
| Graduate – less than 9 | $331.00 per credit hour* |
| **Summer Session 2015** | **Fees** |
| Undergraduate | $260.00 per credit hour |
| Graduate | $327.00 per credit hour |

*Non-Resident part-time students add $200.00 per credit

**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 6.5.

| Table 6.5<br>Fees for Private Music Lessons | | |
|---|---|---|
| 1 Credit | 2 Credits | 4 Credits |
| $200 | $400 | $400 |

**Senior Citizen Rate**

Idaho residents who are at least 60 years old may register for the course and pay $5 per credit hour, a $20 registration fee (per semester), and any special fees (such as for private music lessons, workshops, or laboratory fees). The senior citizen rate does not apply to the self-supporting programs (such as teacher professional development) and noncredit programs (like the Osher Lifelong Learning Institute). The Senior Citizen Rate is based on course availability. All students who use the senior citizen rate will be able to register for classes at the end of the degree seeking student registration cycle or during open enrollment. Students who choose to register with the general degree-seeking population must sign an agreement indicating they are opting out of using the senior citizen rate. To receive the senior citizen rate, first apply for admission, then request the Idaho Senior Citizen's Fee Reduction from the Payment and Disbursement Center, Administration Building, Room 101, or call (208) 426-1212 by providing the cashier your driver's license, birth certificate, or other proof of your age.

## Refund Policy

In general, if you completely withdraw from Boise State University **on or before the 10th 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 $40.00 complete withdrawal fee). If you withdraw after the 10th 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 University 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 University cannot extend the deadlines to take into account a late registration. In summary, you must completely withdraw from the university no later than the 10th day of classroom instruction. 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 University. If you owe money to the university, that money will be deducted from the refund before it is issued. Similarly, Boise State University will take a deduction from the refund check if you used financial aid to pay all or part of room-and-board costs, tuition, registration charges, or SHIP premium charges. In such cases, Boise State University 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 the Account Maintenance Center, Administration Building, Room 101, (208) 426-2134.

## Student Health Insurance Plan (SHIP)

Idaho State Board of Education mandate requires full-fee paying students enrolled in 12 credits for undergraduate and 9 credits for graduate attending classes in Idaho to maintain adequate health insurance. Boise State University students registered for full-fee paying credits are automatically enrolled in the university-sponsored Student Health Insurance Plan (SHIP), with the premium charge added to their tuition and fees billing. Students who provide proof of continuous enrollment in an alternative U.S.-based health insurance plan with comparable benefits are able to waive out of the SHIP coverage each semester.

Students enrolled in SHIP are eligible to purchase for any dependent children under the age of 26 for an additional charge by the 10th day of classes each semester.

All international students are automatically enrolled in the university-sponsored SHIP, with the premium charge added to their tuition and fees billing. Students who provide proof of continuous enrollment in an alternative U.S.-based health insurance plan with comparable benefits that meet the requirements are able to waive out of the SHIP coverage each semester.

Intercollegiate athletes are required to be enrolled in the university-sponsored SHIP, with the premium charge added to their tuition and fees billing.

Non full-fee paying students (classes are billed on a per credit basis, check class notes) but are full time and want to enroll in SHIP need to contact the Health Insurance and Billing Office at healthinsurance@boisestate.edu or (208) 426-2158 by the 10th day of classes each semester.

Part-time students are eligible to enroll in SHIP voluntarily. Information regarding coverage for part-time students is available by contacting the Health Insurance and Billing Office at healthinsurance@boisestate.edu or (208) 426-2158.

Senior citizen fee waiver (and all other fee waiver) students who are full time and want to be enrolled in SHIP need to contact the Health Insurance and Billing Office at healthinsurance@boisestate.edu or (208) 426-2158 by the 10th day of classes each semester to see if they are eligible.

Self-support online programs are not eligible for the SHIP.

Students who provide proof of continuous enrollment in an alternative U.S.-based health insurance plan with comparable benefits are able to waive out of their SHIP enrollment. Waivers must be filed for both the fall and spring semesters by the 10th day of class. Alternative coverage MUST meet all of the comparability requirements. These can be found at http://healthservices.boisestate.edu/insurance/SHIP/waiver/requirements. If your alternative health insurance plan meets these comparability requirements, please log on to your student account to submit your health insurance waiver application (MUST be filed online).

For questions about enrollment or waiver applications, contact the Health Insurance and Billing Office at (208) 426-2158 or by e-mail: healthinsurance@boisestate.edu.

Note: All students may obtain medical and counseling services at University Health Services, at the Norco Building, 1529 Belmont Street. Please call (208) 426-1459 for additional information.

## 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.

## Table 6.4
## Residential/Nonresidential Classification Information

### Procedures to be Observed in Determining Residency for Tuition Purposes at Boise State University

The legal residence of a student 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 the individual in providing clear and convincing evidence of residency for tuition purposes as defined by the law. Individuals applying to change a nonresident classification made at the point of application or 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 the individual meets the criteria for residency and will notify the individual in writing of the decision.
4. The applicant 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 they believe they have met the criteria and on what basis they should be given residency. The appeal should be turned in to the Residency Coordinator. The applicant will be notified in writing of the decision of the Residency Appeals Committee.
5. If an applicant contests the determination of the Residency Appeals Committee that the applicant is not a qualified resident, the applicant 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 the applicant's 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 the applicant of the time, date, and place of the hearing. The decision of the board is final and binding on all parties concerned. The student must agree to the release of information to the review body and must comply with deadlines established by the institution for requesting an appeal.

### Initial Determination of Residency Status

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

Following are the options under which a student may qualify for Idaho residency; at least one of these must be met for consideration:

1. One or more parent(s)/legal guardian(s) of the student is a resident of the state of Idaho and provides at least 50% of the student's financial support. The parent(s)/legal guardian(s) must have maintained a bona fide domicile[1] in the state of Idaho for at least 12 months prior to the semester in which the student is applying for residency.
2. The student receives less than 50% financial support from their parent(s)/legal guardian(s) and has continuously resided[2] in and maintained a bona fide domicile[1] in Idaho primarily for purposes other than education[3] for at least 12 months prior to the opening day of the semester in which the student is applying for residency.
3. The student graduated from an Idaho high school and immediately following enrolled in an Idaho college or university and has continued to be and presently enrolled in an Idaho college or university.
4. The student is married to an Idaho resident.
5. The student is a member of the Armed Forces[4] stationed in the state of Idaho on military orders.
6. The student is an officer or enlisted member in the Idaho National Guard.
7. One or more of the student's parent(s)/legal guardian(s) is a member of the Armed Forces[4] stationed in the state of Idaho on military orders and provides at least 50% of the student's financial support.
8. The student is separated under honorable conditions from the Armed Forces[4] after at least two years of service and at the time of separation designated the state of Idaho as their intended domicile or indicated Idaho as their home of record of service; and will be entering the Boise State University within one year of the date of separation, or 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 one (1) year of matriculation in a public institution of higher education in Idaho. The dependent of a person who qualifies as a resident student under this paragraph and who receives at least fifty percent (50%) support from such person shall also be a resident student.
9. The student has been away from the state of Idaho less than 30 months and has not established legal residence elsewhere; and the student continuously resided[2] in Idaho for at least 12 months immediately prior to departure.
10. The student is a member of one of the following Native American tribes: (i) Coeur d'Alene tribe; (ii) Shoshone-Paiute tribes; (iii) Nez Perce tribe; (iv) Shoshone-Bannock tribes; or (v) Kootenai tribe.

[1]**Domicile** means an individual's permanent home; the place where they intend to remain and expect to return to when leaving without establishing a new home elsewhere. See below for information how to establish Idaho domicile.

[2]**Continuously Resided** means physical presence in the state of Idaho for 12 consecutive months without being absent from Idaho no more than a total of 30 days.

[3]**Primarily Educational Purposes** means a student enrolled for more than 8 credit hours in any semester during the past 12 month period.

[4]**Armed Forces** means United States Army, Navy, Air Force, Marine Corps, and Coast Guard; it does not include National Guard from states other than Idaho and other reserve forces.

### How does a student establish domicile in Idaho?

The student must be physically present in Idaho primarily for purposes other than education. The student must be domiciled[1] in Idaho for 12 consecutive months and have established one or more of the following criteria prior to the opening day of the semester:

1. Filing an Idaho state income tax return covering a period of at least 12 months before the semester in which the student is applying for residency.
2. Permanent full-time employment in the state of Idaho for a period of at least 12 months before the semester in which the student is applying for residency.
3. The student has owned his or her own living quarters for a period of at least 12 months before the semester in which the student is applying for residency.
4. Establishment of 5 of the following 7 factors, if done at least 12 months before the semester in which the student is applying for residency:
   a. Registration and payment of Idaho taxes or fees on a motor vehicle, motor home, travel trailer, or other item of personal property for which state registration and the payment of a state tax or fee is required;
   b. Registration to vote for state elected officials in Idaho at a general election;
   c. Holding an Idaho driver's license or Idaho state-issued ID card;
   d. Evidence of abandonment of a previous domicile;
   e. Presence of household goods in Idaho;
   f. Establishment of accounts with Idaho financial institutions;
   g. Other similar factors indicating intent to be domiciled in Idaho and the maintenance of such domicile. Factors may include, but are not limited to enrollment of dependent children in Idaho primary or secondary schools, establishment of acceptance of an offer of permanent employment for self in Idaho, or documented need to care for relative in Idaho.

For further detailed information, go to http://registrar.boisestate.edu/general-information-and-policies/idaho-residency/.

# Chapter 7 — Financial Aid

The Financial Aid Office provides information, guidance, education, and support for individuals and families applying for federal aid and seeking other sources of financial assistance in pursuing a higher education. It is expected that a student, and his or her family, will first contribute to the cost of education through their own resources. Need-based aid, such as grants, loans, and part-time employment are available to help fill the gap between students' financial resources and educational expenses. Scholarships are available to students who 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. The 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 about financial aid is available on the Web at http://financialaid.boisestate.edu/. 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 www.studentaid.ed.gov.

The following sections describe the eligibility requirements for receiving federal aid, the types of financial aid available at Boise State University, 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 details at http://financialaid.boisestate.edu/aid-handbook-and-policies.

- Complete the application process in the spring 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 University and be matriculated into a degree-seeking program or a certificate program approved for financial aid.
- Classes must be added by the 10th day of the semester to count toward eligibility for the Federal Pell grant.
- Maintain Satisfactory Academic Progress Standards (see details on following pages).
- Have a high school diploma or GED. In most cases, students who have been home-schooled 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, but may apply for scholarships.
- If you are male, you must be registered with Selective Service.
- You must 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.
- You must 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.
- You must meet all other eligibility requirements. Please contact the Financial Aid Office if you have any questions.

## Sources of Financial Aid

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 $588 to $5,775 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)**. Students who meet priority filing deadlines are among the first to be considered for this grant. (See "How to Apply for Financial Aid" on the following page).

### Federal Perkins Loans

Long-term, low-interest loans that must be repaid to the university according to federal guidelines. Repayment begins nine months after you graduate or after your enrollment drops below half-time. The Perkins Loan Program was authorized through September 30, 2014 under 461(b) of the Higher Education Act (HEA), and was granted an automatic one-year extension through the General Education Provisions Act. Unless Congressional action is taken prior to September 30, 2015, Perkins loans for 2015-16 will only be available to students through September 2015. Table 7.1 shows estimated repayment schedules.

**Table 7.1**
**Federal Perkins Loans Estimated Repayment Schedule**
**(based on 5% interest rate)**

| Loan Amount | Number of Payments | Monthly Payment | Total Interest | Total Amount |
|---|---|---|---|---|
| $4,000.00 | 98 | $50.00 | $867.00 | $ 4,876.00 |
| $8,000.00 | 120 | $84.85 | $2,182.00 | $10,182.00 |
| $15,000.00 | 120 | $159.10 | $4,092.00 | $19,090.00 |

### William D. Ford Federal Direct Loans

Long-term loans 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. The Financial Aid Office will determine which loan you will receive, based on your federal financial aid application and financial need. First time recipients of a Direct Loan must complete a loan entrance counseling session available on the web before Boise State University releases loan funds. In addition, you must complete an exit loan counseling session when you graduate or withdraw from the University. Second year borrowers will be asked to complete an online financial literacy session, as part of Boise State University's student loan default prevention program. All Direct Loan recipients must complete a 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. Table 7.2 shows estimated repayment schedules for undergraduate students for Direct Loans in various amounts (based on a standard repayment plan). 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: http://financialaid.boisestate.edu/loan-counseling. The interest rate is set annually in June for the upcoming award year. The interest rate for Direct Subsidized and Unsubsidized loans for the 2014-15 award year was 4.66% for undergraduate students.

**Table 7.2**
**Federal Direct Loan Estimated Repayment Schedule**
**(based on 3.86% interest rate)**

| Loan Amount | Number of Payments | Monthly Payment | Total Interest | Total Repaid |
|---|---|---|---|---|
| $2,625.00 | 60 | $50.00 | $352.00 | $2,977.00 |
| $5,000.00 | 120 | $53.00 | $1,333.00 | $6,333.00 |
| $10,000.00 | 120 | $106.00 | $2,665.00 | $12,665.00 |
| $15,000.00 | 120 | $158.00 | $3,998.00 | $18,998.00 |
| $25,000.00 | 120 | $264.00 | $6,663.00 | $31,663.00 |

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. Students must submit their FAFSA by the priority filing deadline to be considered for Work-Study funding.

### Emergency Short-Term Loans

Available to current students enrolled in six or more credits. These loans are made only to students who experience a significant financial emergency during the academic year and require a $25 processing fee. The loan must be repaid within 90 days. Only one loan is given per semester. The maximum amount available is $250. Applications are available in the Account Maintenance Office, Room 101, Administration Building.

## 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. Most scholarship decisions are based on information contained in the student's admissions application, or for a continuing student, his or her academic record. However, some scholarships require a separate application. A complete listing of scholarship information is available at http://financialaid.boisestate.edu/scholarships/how-to-apply/.

Scholarship deadlines vary; for the most current information, please review the different scholarship programs at: http://financialaid.boisestate.edu/scholarships/how-to-apply/. All new freshmen and transfer students who have completed the admission application by the deadline and who have at least a 3.0 GPA will be considered. Continuing students need a 3.0 GPA to be considered.

## Applying for Scholarships

Most scholarship decisions are based on information contained in the student's admissions application, or for a continuing student, his or her academic record. However, some scholarships require a separate application. A complete listing of scholarship information is available at https://financialaid.boisestate.edu/scholarships. Need-based scholarships require a student to submit the FAFSA by the deadlines indicated below.

### Brown Honors Scholarships

Awards for tuition and housing to incoming honors students. The award is renewable for four consecutive years. Contact the Honors College for more information, call (208) 426-1122 or online at www.honors.boisestate.edu.

### President's and Dean's Scholarships

Scholarships available to a limited number of first-year students enrolling directly from high school or first-year transfer students. To be eligible, you must be an Idaho resident. These scholarships are given in recognition of outstanding academic achievement. To apply, complete and submit all admission materials by February 15th.

### Capital Scholars

The Capital Scholars Program recognizes outstanding Idaho students during their junior year of high school. Students are selected as Capital Scholars based on academic excellence in high school and high scores on a college entrance examination. Each student who is selected as a Capital Scholar is invited to an on-campus program to learn more about Boise State University. Scholarship amounts vary.

### Departmental Scholarships

Scholarships available from each academic department. The criteria and the scholarship amounts are established by each department. All students with a cumulative GPA of at least a 3.0 will be considered. A list of departments requiring additional information is available at http://financialaid.boisestate.edu/scholarships/departmentalcollege-scholarships/.

### Gem Scholarships

Scholarships that waive the full-time non-resident fees for new entering freshmen and new transfer out-of-state students. There is no separate application process. To be considered for a Gem Scholarship students must have a permanent residence outside the State of Idaho and must be accepted as a degree-seeking student with an eligible undergraduate program. Students who choose an over-enrolled major on their application for Boise State admission or within their myBoiseState student account will not be considered for the Gem. Over-enrolled majors include Nursing, Pre-Nursing, Radiology, and Pre-Radiology. Self-supported online programs are also closed to Gem participants. (These programs are subject to change). Gem Scholarships are awarded for one year and may be renewed for three additional years if students meet renewal criteria. Deadlines, eligibility criteria, and additional information are available at http://financialaid.boisestate.edu/scholarships/non-resident-tuition-assistance-programs/.

### Western Undergraduate Exchange (WUE)

Awards that waive a portion of the full-time nonresident fees for new entering freshmen and new transfer out-of-state students. There is no separate application process. To be considered for a WUE Scholarship students must have a permanent residence within one of the following 15 participating states/U.S. territories: Alaska, Arizona, California, Colorado, Hawaii, Montana, Nevada, New Mexico, North Dakota, Oregon, South Dakota, Utah, Washington, Wyoming or the Commonwealth of the Northern Marianas Islands (CNMI). Students must be a US Citizen or Permanent Resident. Additionally, students must be accepted as a degree-seeking student with an eligible undergraduate program. Students who choose an over-enrolled major on their application for Boise State admission or within their myBoiseState student account will not be considered for the WUE. Over-enrolled majors include Nursing, Pre-Nursing, Radiology, and Pre-Radiology. Self-supported online programs are also closed to WUE participants. (These programs are subject to change). WUE Scholarships are awarded for one year and may be renewed for three additional years if students meet renewal criteria. Deadlines, eligibility criteria, and additional information are available at http://financialaid.boisestate.edu/scholarships/non-resident-tuition-assistance-programs/.

### State of Idaho Scholarship Awards

Scholarships available to students who are Idaho residents. Applications can be obtained from high school counselors or from the Office of the Idaho State Board of Education, PO Box 83720, Boise, ID 83720-0037. Most of these scholarships have a February 15th deadline. Apply at http://www.boardofed.idaho.gov/scholarship/scholarship_jump.asp.

## How to Apply for Financial Aid

1. **Complete the Free Application for Federal 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.ed.gov/). If you have applied for aid in prior award years, use your password to log in. If this is your first time completing the FAFSA, you will set a password as part of the FAFSA application process. If you are a dependent student and need to provide parental information, your parent can also set a password during the application process. Only one parent is required to sign the FAFSA.
   - Apply using renewal FAFSA on the web (also at https://fafsa.ed.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 paper FAFSA. The paper FAFSA or a FAFSA form that you can print from the federal website (https://fafsa.ed.gov/) is available for students who prefer to apply by mail. However, students are warned that filing a paper FAFSA may add weeks to the time required to process an application.

Tips in Completing the FAFSA:

- Boise State University Title IV Code is 001616.
- Boise State University Financial Aid address: 1910 University Dr., Boise, ID, 83725-1315.
- Ensure that all information you provide on the application is entered correctly. The name you provide must match the name on your social security card.
- Use the IRS data retrieval tool using FAFSA on the web to expedite the processing of your application and to ensure accuracy in the income and tax questions.
- Provide all required signatures; use your PIN number as a signature.
- Do not send tax documents or other materials with your application or signature page.
- If you provided an e-mail address on the FAFSA, you will receive an e-mail with a link to your Student Aid Report (SAR). If you left the e-mail address question blank, you will receive your SAR through the regular mail. Review your SAR and make any necessary corrections.

2. **Submit additional materials, if requested.** The Financial Aid Office uses myBoiseState and BroncoMail to alert students of the need to provide additional materials, if required. Certain applicants are requested to provide documents to verify information reported on the FAFSA. Examples of requested documents include:
   - Verification Forms.
   - Citizenship documents. A birth certificate, passport, Alien Registration Card, or a Social Security Card.
   - Additionally, you and your parent(s) may be required to use the "Retrieve IRS data retrieval tool" featured on FAFSA on the Web to migrate income and tax information directly from the IRS into your financial aid application.
3. **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 student account. You may accept, reduce, or decline your awards on myBoiseState.
4. **Be aware of the following deadlines:**

   **February 15** Final deadline for incoming freshmen and transfer students to submit application materials, the FAFSA, and the online scholarship application to be considered for many scholarships. Students who meet this deadline are given priority status for federal aid programs, such as the Perkins Loan, work-study, and certain grant programs with limited funding.

   **March 15** Deadline for continuing students to submit the FAFSA and the online scholarship application. Students who submit the FAFSA by this date are given priority status for federal aid programs, such as the Perkins Loan, work-study, and certain grant programs with limited funding.

   **June 1** All documents and other information requested by the Financial Aid Office must be submitted by this date to retain priority status and to ensure that your financial aid will be available for the first disbursement of fall semester.

   Students who miss these deadlines 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.
5. **Applying for Summer Aid.** Most financial aid is awarded for use during the fall and/or spring semester(s). The University has limited financial aid available for the summer session, and not all students have remaining eligibility for summer aid. See http://financialaid.boisestate.edu and click on "Timely Tips" for details on applying for summer aid, deadlines, etc. For summer 2016 aid consideration, make sure that you have completed the 2015-2016 FAFSA.
6. **Staying Informed.** Most official correspondence will be sent to your student e-mail account. Remember to check your BroncoMail at least weekly to determine if additional information is needed. To easily find financial aid updates, look at the "Timely Tips" at http://financialaid.boisestate.edu or click on the Financial Aid Recipients link on your myBoiseState account. Information is updated regularly on policy changes or other important information that might affect your financial aid. You can also be a fan of the Boise State Financial Aid Facebook page to receive updates.

## How Financial Aid is Distributed

In March, the Financial Aid Office begins awarding aid for the following year. Students should check their myBoiseState account regularly for financial aid information and updates.

Financial aid is first applied to your outstanding registration fees for the current semester, any current University housing charges, or other standard University charges; any remaining financial aid is then refunded to you. The refund will be electronically deposited to your bank account about one week before your classes begin, if you signed up for direct deposit, or a check will be mailed to your mailing address as shown on your myBoiseState 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.

## Complete Withdrawals

In general, students receive no refund of fees if they withdraw from the university after the 10th day of classroom instruction. Federal financial aid regulations state that eligibility for aid be recalculated whenever a student withdraws from Boise State University, 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 if/what is owed and will provide notification of adjustments to financial aid funding. For more information, including examples of calculations, go to http://financialaid.boisestate.edu/aid-handbook-and-policies 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 a student receives federal and state financial aid, federal regulations require that the student has met and continues 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 a student is on pace to earn a degree within that credit limit.

For a complete description of satisfactory standards, please refer to http://financialaid.boisestate.edu/sapdocuments/.

## 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 from the web at http://financialaid.boisestate.edu/sapdocuments/.

# 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. Students 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, Student Union Building, (208) 426-3652. International students who are in the United States with a visa or who plan to attend Boise State with the F-1 student visa are ineligible for all federal financial aid programs. International students may apply for any scholarships that are not federally funded, are not need based (do not require the FAFSA to be filed), or do not require U.S. citizenship. Scholarship information is available on the web at https://financialaid.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) 426-1757.

# 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, obtain a release form from the Financial Aid website or the Registrar's Office. 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 e-mail: faquest@boisestate.edu.

# Chapter 8 — On-Campus Student Housing

The department of Housing and Residence Life provides on-campus housing options for Boise State students in several distinct residential communities, all located within walking distance from campus. You can choose residence hall, suite-style, and townhouse living options, all with individual licensed bed spaces for the full academic year, or one of four apartment complexes designed for upper-division, graduate, and family housing leased on a month-by-month basis.

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/or employment opportunities – all woven into the on-campus living experience.

Within this chapter, the following will be addressed:

- Boise State University Fair Housing Policy
- Residence hall, suite, and townhouse options
  - Living-learning communities
- 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 http://housing.boisestate.edu or by calling (208) 447-1001 for more information.

## Fair-Housing Policy

Boise State University 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 2,100 students in nine coed complexes – all fully furnished with utilities included. Amenities include air-conditioning, laundry facilities per complex, cable television jacks in common rooms (including bedrooms in Chaffee and Towers), Ethernet connection ports in individual rooms, and wireless Internet access throughout every complex. Every first-year student is required to have a residential 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 3-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. In emergency situations, one of these 'double-suite' rooms may have an additional resident placed there temporarily. Chaffee Hall also hosts the POD at the Wilk, a convenience store with extended hours for residential students that has a coffee shop, small grill, and convenience store food options.

**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 offers a computer lab and two classrooms 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. Preference for Driscoll Hall will be given to students participating in the Honors College.

**Towers Hall** is available to first-year students and consists of six floors, where each floor is equipped with study lounges and card operated laundry facilities. Four students occupy each suite (in two double rooms) and share a bathroom between them. The entry level of the building features a computer lab, classroom/study space, lounge/recreation room, and community kitchen; just outside are a volleyball and basketball court.

**University Square** has four buildings surrounding a gated 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 double room per suite); central air conditioning/heating, full kitchen (stove, refrigerator, and dishwasher), and a washer/dryer.

**Clearwater**, **Payette**, and **Selway Suites** are available to upper-division students 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. While not required of upper-division students, meal plans are highly encouraged.

**Aspen**, **Cedar**, **Hawthorne**, **Juniper**, **Spruce**, and **Tamarack Townhouses** are available to upper-division students seeking a more independent living option as well. 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. While not required of upper-division students, meal plans are highly encouraged.

Several units within the townhouses are units designated for residents seeking a 21+ living experience, as well as units for students who meet eligibility and want to sign a 12-month lease agreement.

### Living-Learning Communities at Boise State

Living-Learning Communities (LLCs) provide Boise State students a unique opportunity to live and learn with students who share similar academic interests and majors. Each community is facilitated by a faculty member who lives within the residence hall or suite style building, planning learning outcomes and activities that benefit a student's overall Boise State experience, including earning academic credit for participating. There are six communities, each directly connected with an academic college: Arts and Sciences, Business and Economics, Education, Engineering, Health Professions, and Leadership and Engagement. Boise State students participating in these communities have higher GPAs and are more likely to stay through to graduation than any other population of students at Boise State.

The **Towers Engagement Center** is an initiative in Barnes Towers that connects campus partners to students in this residence hall. Throughout the year, a variety of departments from across Boise State bring their services into the building to provide additional support and guidance for residents. This model provides increased opportunities for residents to meet Boise State faculty and staff where they live.

Note: In order to support the level of interaction, learning, and engagement of these communities, LLC students are responsible for an additional $50 per semester programming fee assessed to their student account (this fee does not apply to Towers' residents). The Boise State Provost Office and Housing and Residence Life collaborate to match these funds per student to demonstrate the importance of this learning opportunity. Spaces are limited so prospective first year students are encouraged to apply online at http://housing.boisestate.edu/ 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; and each complex has air conditioning/heating systems, on-site parking permits (purchased through Parking and Transportation Services), playgrounds, and barbecue facilities. While meal plans are not required for students living in these areas, they are highly recommended for all residents and their dependents. New starting June 2015, a flat fee for utilities (gas, power, and cable) will be assessed to apartment residents' student accounts every month and if energy consumption exceeds a certain dollar value, residents will be responsible for that overage charge. A description of each apartment complex is provided below:

**University Heights** and **University Manor** consist of one and two bedroom apartments; all with access to a common laundry facility. Each unit has a full kitchen (stove and refrigerator) and water, sewer, trash, basic cable TV, and Internet are provided.

**University Park** consists of two and three bedroom apartments; all with access to a common laundry facility on site. Each unit has a full kitchen (stove and refrigerator) and water, sewer, trash, basic cable TV, and Internet are provided.

**University Village** consists of two bedroom apartments, each with central air conditioning/heating and full kitchen (stove, refrigerator, and dishwasher). Common laundry facilities are located on-site and water, sewer, trash, and Internet are provided.

## Eligibility for On-Campus Housing

Boise State University residence halls, suites, townhouses, and apartments are reserved for undergraduate students enrolled in 8 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

In order to apply on line for housing, please go to http://housing.boisestate.edu and click the "Apply for Housing" link. In the application, students will be directed to pay a $25 non-refundable application fee through the Touchnet System. In addition:

- Prospective residence hall, suite, and townhouse residents will be directed to pay a $225 security deposit at the time of application. Before an application can be processed and student assigned, the application fee and deposit must be paid.
- Prospective apartment residents will receive an apartment offer and once that offer has been accepted, the student will need to pay a $225 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. Nor does being accepted for admission to the University signify that your application for housing had been accepted and approved.

## Housing Preferences

If your application for a residence hall, suite, or townhouse is accepted, Housing and Residence Life will assign students to a room in one of the nine communities described above. In doing so, Housing and Residence Life will make every effort to accommodate the preferences students have indicated on their application. Room assignment and accommodation of preferences are based on the date the *Residence Hall & Dining Agreement* is received (including the payment of the $250 application fee/security deposit). Finally, please note that the preferences indicated on the *Residence Hall & Dining Agreement* are not themselves contractually binding, though they will be honored whenever possible.

## Cost Information

Current housing rates, along with meal plan options, are available by checking http://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, townhouse, and apartment contracts cover housing for the full academic year*, as well as the costs of cable TV service, Internet, board dining plan (where required or selected), and state sales tax.
- Apartment contracts may last up to 12 months. Applicants should verify the length of time listed on the contract prior to signing.
- All first-year students who live on campus are required to have a full residential meal plan, regardless of the location of the room assignment.

*Housing accommodations will be provided for all residents seeking to stay on campus during fall break, winter break, spring break or summer break (please know campus meal service may be limited or unavailable during these breaks). If interested in break housing, please contact Housing and Residence Life.

## Rules and Regulations

Housing and Residence Life Community Standards, policies, procedures, as well as Boise State University rules and regulations are defined more specifically in the *Residence Hall & Dining Agreement*, *University Code of Conduct*, and online at http://housing.boisestate.edu.

### Questions?

If you have any questions about Housing and Residence Life, contact us at (208) 447-1001 or online at http://housing.boisestate.edu.

# Chapter 9 — Student Services

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

## Academic Programs and Services

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

### Academic Support

Currently enrolled students are encouraged to utilize free academic support services through campus drop-in centers, learning assistant-led study groups, online tutoring, and academic skill-building workshops.

Current schedules for all tutoring centers and learning assistant-led study sessions are posted on the Advising and Academic Enhancement website: http://aae.boisestate.edu/tutoring/.

Academic skill building workshops in the areas of time management, reading and note taking strategies, study skills, and test anxiety are offered at no cost to students throughout the semester. Descriptions and schedules can be found at http://aae.boisestate.edu/workshops/.

### Advising and Academic Enhancement

If you are currently enrolled but have not yet selected a major, work with an advisor in Advising and Academic Enhancement for assistance in selecting courses, meeting general university graduation requirements, and exploring academic opportunities (go to http://aae.boisestate.edu or call (208) 426-4049 or email academic@boisestate.edu).

### BroncoVenture Orientation

Once admitted, you will receive notice of your admission status, as well as information on the next steps to complete enrollment. You will receive an e-mail inviting you to sign up for your BroncoVenture Orientation, which is expected of all incoming Boise State students. BroncoVenture Orientation will provide educational and informative programs to ease your transition into the Boise State community, provide you with academic advising, and aid you in course selection on-site. You will register for your next semester of classes at the Orientation session. Orientation programs are held throughout the year, and reservations are required to attend. A parent and family orientation runs concurrently to all student orientation programs. Details on how to register a parent or family member will be included in your BroncoVenture registration e-mail.

### The Career Center

The Career Center provides career planning and employment services to all Boise State students. These services include career decision making and major exploration, employment assistance (resume and cover letter review, interview training, professional networking and job search advising), and coordination of the university's internship program. The Career Center's web-based career-guidance systems focus on students' interests, skills, and values for making career choices. The Career Center sponsors annual events including annual career fairs, and a Meet the Employers Professional Series. Through BroncoJobs, students can access student employment, internship, and career-employment opportunities listed by businesses, government agencies, not-for-profit agencies, and school districts, as well as schedule on-campus interviews with participating employers. Further information is available at http://career.boisestate.edu or by calling (208) 426-1747.

### English Language Support Services

Free one-on-one ESL tutoring and course advice available for English language learners. Flexible hours are negotiable. Call (208) 426-1189 for information. Additional ESL resources online at http://englishsupport.boisestate.edu.

### International Learning Opportunities

Boise State University students have the opportunity to participate in academic programs at universities throughout the world. There are summer, semester, and academic year options for which students receive academic credit at Boise State with pre-departure planning and approval. The opportunities are affordable (with both financial aid and scholarships available), and there are sites in both English-speaking countries and those where students can enhance their foreign language skills.

Participants in Boise State education abroad programs may also take advantage of unique opportunities in international service-learning, internships, and volunteerism. For example, students studying in Puntarenas, Costa Rica can volunteer at a marine animal park, students in Bilbao, Spain serve as interns at local companies, and student in China serve as conversation partners to Chinese students.

Students significantly benefit from an international experience: gaining the ability to view their academic field from a variety of perspectives, seeing and experiencing what they are studying at a personal level, enhancing their cross-cultural communication skills, increasing their self-awareness and understanding of American culture. Additionally, graduates with international experience typically have a distinct advantage in the job market.

Students may receive Boise State credit for education abroad in the following manner. Students are registered 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 pre-requisites can be obtained at http://international.boisestate.edu/ or call International 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 200 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; and resident assistant, and honors opportunities of its member campuses. While attending the host institution, students may pay either the current Boise State fees or in-state tuition at the host school. Credits and grades earned at the host institution are recorded at the home campus as part of the student's regular transcript. To be eligible, student 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 http://international.boisestate.edu/ or call International Learning Opportunities at (208) 426-2630.

### New Student and Family Programs

New Student and Family Programs provides services, advocacy, and activities specifically developed to help new students succeed during their first year at Boise State University, as well as support for family members of current students. Our first-year student programming and outreach efforts include orientation, and convocation. Parent and family outreach programming includes orientation, Parent and Family Weekend, educational programming, and support of the Parent and Family Association.

### Student Success Courses

A variety of student success classes are offered to all students at Boise State. These courses are developed to provide students with information and experiences promoting academic success. Nationwide, students who participate in such courses have a higher graduation rate than those who do not. For more information contact Advising and Academic Enhancement, (208) 426-4049. You can find ACAD course descriptions in Chapter 12 under Academic (Student Success Courses).

### Student Success Program

The Student Success Program is a U.S. Department of Education funded TRiO program that provides services to assist undergraduate students in completion of a baccalaureate degree. The program is designed to serve 180 low-income and first-generation students, and students with documented disabilities. SSP services include: individualized tutoring, academic and personal advising, career planning, academic skills development, financial literacy, and computer lab access. The Student Success Program is located at 1885 University Drive, across from the Administration Building. For more information please visit our

website, https://education.boisestate.edu/ssp/ or contact us at: (208) 426-3583 or ramonashipman@boisestate.edu.

### Test Preparation

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

### University Testing Services

The university provides a variety of testing services to Boise State students and the community. Tests offered include: COMPASS (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 location, testing hours, and appointments, call (208) 426-2762 or go to http://aae.boisestate.edu/testing/. You can also direct testing questions to TestingServices@boisestate.edu.

### Writing Center

The Boise State University 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 writingcenter.boisestate.edu.

*The Boise State Writing Center—A Community of Writers!*

## Campus Recreation

The mission of Campus Recreation is to enrich the University community by providing diverse recreational and leadership opportunities that foster personal growth and lifelong healthy habits. 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 participate in physical activity. 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 rec.boisestate.edu.

### Aquatics Programming

Completed in the fall of 2010, the 17,000 square foot Aquatics Complex addition is a hub for water activities. With a multi-purpose pool, recreation pool, and spa, the three bodies of water offer opportunities for lap swim, water exercise, swim lessons, water polo, kayaking instruction, relaxing, and more.

### Club Sports Programming

Club Sports offers a variety of sporting choices in a variety of disciplines for those interested in competition. Opportunities exist for participants to learn a new sport or maintain the personal level of expertise in the sport they love. All clubs are student led, operated, and funded. Clubs provide a chance for individuals to develop and implement their leadership skills. Clubs practice regularly and often compete against local and regional opponents. There are over 20 existing club sports, however if a person's interests are not represented, club sports is more than happy to help them start a new club.

### Fitness Programming

The Fitness Program organizes over 40 drop-in group exercise classes each week during the semester including classes like: cycling, Zumba, yoga, and kickboxing. Motivational help in exercising is available, including instructional programs, periodic incentives, fitness testing, and personal training. Workshops related to fitness and health are offered to educate the Boise State University community.

### Informal Recreation

There are many opportunities to recreate at Boise State University. The Recreation Center comprises a 3-court gymnasium, 4 racquetball courts, aquatics center, rock climbing gym, multi-purpose rooms, and a full complement of strength and cardio equipment. In addition, there are locker rooms, saunas, equipment check out and towel service.

### Intramural Sports Programming

For students 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. The biggest event is the annual Toilet Bowl (flag football) tournament, which is played on the famous blue turf to kick off Homecoming week.

### Outdoor Programming

The Outdoor Program offers a wide variety of events and educational pursuits to keep students, faculty, staff and alumni involved and active exploring the mountains, rivers and deserts of Idaho and beyond. Each year, the Outdoor Program provides adventure-based instructional workshops/seminars/trips for students of all ability levels, climbing gym, student leadership development, custom group adventures, and the region's largest four season outdoor equipment rental operation. For more information on outdoor events call (208) 426-1946.

### 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 campus users to explore sustainable transportation through educational programming, retail sales, and services.

## Health Services

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

### 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 University.

### 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.

### 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

Provides insurance and billing support for Health Services. This support includes submitting claims to most insurance companies, educating our patients and the campus community about health insurance options, assisting with billing questions, understanding billing language and terminology, providing

guidance on how to be savvy consumers of health insurance and health care, and assisting with the management of the Student Health Insurance Plan (SHIP). In addition, we assist students with the waiver process and education about how to utilize all other insurance plans at Boise State University Health Services.

## Insurance Coverage

Idaho State Board of Education mandate requires full-fee paying students attending classes in Idaho to maintain adequate health insurance. Boise State University students registered for full-fee paying credits are automatically enrolled in the university-sponsored Student Health Insurance Plan (SHIP), with the premium charge added to their fees and tuition on their student account. Students who provide proof of continuous enrollment in an alternative U.S.-based health insurance plan with comparable benefits are able to waive out of the SHIP coverage each semester. Students enrolled in SHIP are eligible to purchase coverage for their dependent children under the age of 26 for an additional charge.

All international students are automatically enrolled in the university sponsored SHIP, with the premium charge added to their fees and tuition on their student account. If they wish to waive out of SHIP they can do so by providing proof of comparable coverage by a U.S. based health insurance plan.

Intercollegiate athletes are required to be enrolled in the university-sponsored SHIP, with the premium charge added to their tuition and fees billing.

Non full-fee paying students (classes are billed on a per credit basis, check class notes), but are full time need to contact the Health Insurance and Billing Office at http://healthinsurance@boisestate.edu or (208) 426-2158 by the 10th day of classes each semester to be enrolled in SHIP.

Part-time students are eligible to enroll in SHIP on a voluntarily basis. Information regarding coverage for part-time students is available by contacting the Health Insurance and Billing Office at http://healthinsurance@boisestate.edu or (208) 426-2158 by the 10th day of classes each semester to be enrolled in SHIP.

Self support online programs are not eligible for SHIP at this time.

### Waiver Policy

Students who provide proof of continuous enrollment in an alternative U.S.-based health insurance plan with comparable benefits are able to waive out of their SHIP enrollment. Waivers must be filed for both the fall and spring semesters by the 10th day of class. Alternative coverage must meet all of the comparability requirements to fulfill waiver requirements. These can be found at http://healthservices.boisestate.edu/insurance/SHIP/waiver/requirements. If your alternative health insurance plan meets these comparability requirements, please log on to your student account to submit your SHIP waiver request. Waiver requests must be completed and submitted online.

### Enrollment Policy

Students who wish to be enrolled in SHIP need to meet the following eligibility requirements.

### Mandatory

The following students are eligible and will be automatically enrolled in SHIP unless a waiver application is submitted by the waiver deadline date:

- full-fee paying domestic undergraduate students enrolled in at least 12 credits
- full-fee paying domestic graduate students enrolled in at least 9 credits
- graduate assistants or graduate fellows enrolled in at least 9 credits (includes self-support courses in determining credits)
- intercollegiate athletic graduate assistants
- international students
- intercollegiate student-athletes (not eligible to waive SHIP)

### Voluntary Full-Time

In addition, full-time domestic students who are not full-fee paying may also enroll in SHIP at the prices below, including students on fee waivers. The health insurance fee will NOT automatically be added to their student account. These students must contact the Health Insurance and Billing office on campus to enroll in the plan by the 10th day of classes each semester to be enrolled in SHIP. For more information, please contact the Health Insurance and Billing Office in the Norco Building at (208) 426-2158, healthinsurance@boisestate.edu, or in person at 1529 Belmont Street Room 111, Boise, ID 83706.

### Voluntary Part-Time

The following students are eligible to enroll in SHIP on a voluntary basis:

- part-time domestic undergraduate students taking 9-11 credits
- part-time domestic graduate students taking 6-8 credits

Part-time students who would like to enroll in SHIP may enroll online with a MasterCard or Visa at www.renstudent.com/boisestate by the 10th day of classes each semester.

Note: All students may obtain medical and counseling services at Health Services. Students do not need to be enrolled in SHIP to receive services as we bill most insurance companies.

Health Services is located in the Norco Building at 1529 Belmont Street. Please call (208) 426-1459 for additional information or to schedule an appointment.

For more information on our services visit our website at healthservices.boisestate.edu.

# Student Involvement and Leadership

Broncos are destined to do great things, but their success is not wholly defined by personal accomplishments. Success is also defined by the impact they have in the lives of others. By getting involved students learn to see obstacles as opportunities to connect the disconnected and imagine the yet unimagined. They don't accept what is, but instead begin to ask... "What if?" 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 and courses, volunteer and service opportunities, and community partnerships. From fraternities and sororities to academic and professional clubs, Boise State University offers more than 200 student organizations. Through programs like Catalyst, LeaderShape, and the Leadership Studies minor, as well as domestic and international cultural immersions such as Partnership Jamaica, students can Get (IN)volved, connect with each other, the campus and the community, while learning to reach their full capacity to impact and change the world. The Student Involvement and Leadership Center provides space and context for uncommon dialogue to explore purpose and realize potential. Students are encouraged to find their voice and create their vision for the world. Their dream of a better future motivates an unwavering commitment to action; making the intangible, tangible and the impossible, probable. For additional information and ideas on how to get involved, visit http://getinvolved.boisestate.edu/ or call the Student Involvement and Leadership Center at (208) 426-1223.

The **Associated Students of Boise State University** (**ASBSU**) advocates on behalf of Boise State University 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) 426-1223 or visit http://asbsu.boisestate.edu.

# 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 Women's Center.

### Children's Center

The University Children's Center provides care for children eight weeks—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 NAEYC. Financial assistance is

available. For more information and rates, call (208) 426-4404 or visit http://childrenscenter.boisestate.edu/.

### 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 University. The DOS plays a significant role in supporting and empowering students and their families during difficult times by providing support and service to students who need clarification and advice regarding a wide range of student related issues or problems related to campus life, student services, individual concerns, and personal and family emergencies. Service is provided in an atmosphere of confidentiality and concern. Contact them for friendly, confidential assistance and referrals to other vital campus resources and services to help you meet your personal and academic goals. Located in the Norco Building, Room 116, (208) 426-1527 or visit http://deanofstudents.boisestate.edu.

### Disability Resource 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 Disability Resource Center provides students, faculty, and staff with information about specific disabilities and accessibility at Boise State University. For further information, visit http://drc.boisestate.edu/ or call (208) 426-1583.

### International Student Services (ISS)

ISS 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 university or 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. All of these efforts are an expression of our commitment to a philosophy of Inclusive Excellence at Boise State University. International Student Services is housed in the Student Diversity Center on the second floor of the Student Union Building, co-located with Multicultural Student Services. For more information please visit us on the web at http://iss.boisestate.edu or call International Student Services at (208) 426-3652.

### McNair Scholars Program

The McNair Scholars Program is a U.S. Department of Education funded TRiO program. It is an academic achievement program that prepares undergraduate students for graduate studies. The program serves 25 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, exposure to research (stipend provided), travel to research conferences and graduate schools, and other scholarly activities. The McNair Scholars Program is located in Education Building, Room 206. For more information please visit our website at: http://education.boisestate.edu/mcnair/ or contact us at: (208) 426-1194 or mcnair@boisestate.edu.

### Multicultural Student Services

Multicultural Student Services provides training, education and advocacy for students 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 non-dominant groups. Multicultural Student Services also provides a forum for education aimed at helping students learn multicultural skills and perspectives that they need for a successful experience at Boise State University and beyond. All of these efforts are an expression of our commitment to a philosophy of Inclusive Excellence at Boise State University. 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 http://mss.boisestate.edu or call us at (208) 426-5950.

### Off-Campus Sites

Student services such as advising, registration, book sales, and library services are available at most off-campus sites. The off-campus locations and phone numbers are listed in Chapter 1—An Introduction to Boise State University, 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 students can meet 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 University'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 students learn multicultural skills and perspectives that they need for a successful experience at Boise State University and beyond. All of these efforts are an expression of our commitment to a philosophy of Inclusive Excellence at Boise State University.

### Student Employment

All registered students can search for on-campus (including work-study), off-campus, part-time, summer, temporary, and full-time job opportunities on BroncoJobs, the university's web-based job-listing site, hosted by the Career Center. There is no charge to students for this service. New jobs are posted daily. Further information is available at (208) 426-1747 or http://career.boisestate.edu.

### 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 http://deanofstudents.boisestate.edu.

### Veteran Services

The Veteran Services Office, located in the Lincoln Parking Garage, 1607 University Drive, (208) 426-3744, provides counseling assistance to all of Idaho's Armed Forces Veterans, National Guard members and Reservists, as well as dependents who qualify. Peer counselors assist student veterans and dependents with Veterans Administration educational benefits, and admission requirements. Tutorial and work-study programs for veterans and dependents are also coordinated through the Veteran Services Office.

### Women's Center

The Boise State Women's Center empowers students to achieve their academic goals by providing educational outreach, support services and a safe place. Promoting active citizenship by focusing primarily on gender-related issues, the staff encourages dialogue about the social construction of gender and how gender intersects with race, ethnicity, class, sex, sexual orientation, ability, age and nationality. The center houses two lounges, one that is reservable for students and a LGBTQIA lounge with net stations, as well as a lactation room for nursing moms. Educational events are created by student staff members who welcome ideas and opportunities for collaboration and the Healthy Relationship program offers workshops for any student organization, classroom or residence hall. No-cost advocacy for victims of sexual assault, relationship violence and stalking is also available. For a full list of programs and services visit the website at http://womenscenter.boisestate.edu or stop by the center, located on the second floor of the Student Union Building, (208) 426-4259.

# Chapter 10 — Obtaining a Degree at Boise State University

Table 10.1 lists the types of degrees and certificates 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 University**

| | |
|---|---|
| A.A. | Associate of Arts |
| A.S. | Associate of Science |
| B.A. | Bachelor of Arts |
| B.A.S. | Bachelor of Applied Science |
| B.B.A. | Bachelor of Business Administration |
| B.F.A. | Bachelor of Fine Arts |
| B.M. | Bachelor of Music |
| B.S. | Bachelor of Science |

Undergraduate degrees available at Boise State fall into one of two categories: *associate degrees* and *baccalaureate degrees* (also known as bachelor degrees). Both degrees are academic titles granted to students who have completed a specific course of study; that 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.

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.

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 http://aae.boisestate.edu/advisingcontacts/. If you have not selected a major, you will work with an advisor from Advising and Academic Enhancement located in the Academic and Career Services Building, Room 114. Contact information: (208) 426-4049, academic@boisestate.edu, aae.boisestate.edu.

## 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 by your major and minor
- 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

To obtain an associate degree you must:

- complete the number of credits specified for that degree
- complete 15 of your last 18 credits at Boise State (residency requirement)
- fulfill all Foundational Studies Program requirements for University Foundation (UFs) and Disciplinary Lens (DLs) courses with a grade of C- or higher in each course
- complete the college first-year writing requirement
- 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

To obtain a baccalaureate degree you must:

- complete the number of credits specified for that degree
  - of those credits, at least 40 must be in upper-division courses (numbered 300 or higher)
- complete 30 of your last 36 credits at Boise State (residency requirement)
- fulfill all Foundational Studies Program requirements, receiving a grade of C- or higher in each course, unless otherwise required by department
- complete the college first-year writing requirement
- 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

## How to Read a Degree Requirements Table

The following information is provided as a supplement to 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 University. 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. 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.

| Social Science<br>Bachelor of Science | |
|---|---|
| *Course Number and Title* | *Credits* |
| Foundational Studies Program requirements indicated in **bold.** See page 50 for details and lists of approved courses. | |
| **ENGL 101** Introduction to College Writing | 3 |
| **ENGL 102** Intro to College Writing and Research | 3 |
| **UF 100** Intellectual Foundations | 3 |
| **UF 200** Civic and Ethical Foundations | 3 |
| **DLM** Mathematics | 3-4 |
| **DLN** Natural, Physical, & Applied Sciences course with lab | 4 |
| **DLN** Natural, Physical, and Applied Sciences course | 3-4 |
| **DLV** Visual and Performing Arts | 3 |
| **DLL** Literature and Humanities | 3-4 |
| **DLS** Social Sciences course in a first field | 3 |
| **DLS** Social Sciences course in a second field | 3 |
| **CID** SOC 201 Theories of Society | 3 |
| SOC 493 Internship or<br>SOC 496 Independent Study | 3 |
| **FF** SOC 498 Senior Seminar | |
| Methods course:<br>COMM 302 Research Methods<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* | 9 |
| *Select from the following for first and second fields of study: anthropology, communication, criminal justice, economics, gender studies, history, political science, psychology, and sociology. Only three (3) credit hours in each field may be workshops, special topics, independent study courses, or internships. | |
| Upper-division electives to total 40 credits | 10-13 |
| Electives to total 120 credits | 37-43 |
| *Total* | 120 |

The College First-Year Writing Requirements, see page 49.

Disciplinary Lens (DLM, DLN, DLV, DLL, DLS) requirements, see page 51. Some degrees require specific DL courses, which fulfill the DL and major requirement.

The Mathematics Requirement, see page 49.

Communication in the Discipline requirement, see page 51.

Finishing Foundations requirement, see page 51.

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

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

You must complete at least 120 credits for any baccalaureate degree. A few majors fulfill this automatically, but for most majors you will need to take some additional electives. For restrictions on these elective credits, see page 54.

## College First-Year Writing Requirement

First-year college writing courses play a vital role in enhancing the transition into the university by providing an introduction to the critical reading, writing, and inquiry practices of the university. Because these are foundational courses that connect directly to the University Learning Outcomes, all students seeking a baccalaureate degree complete at least six credits in first-year writing. In order to successfully complete the First-Year Writing Requirement, you must complete ENGL 101 and 102 (or their equivalents) with a grade of C- or higher, or demonstrate writing proficiency as outlined below.*

**Table 10.2**
**College First-Year Writing Requirement**

| | |
|---|---|
| ENGL 101 Waived | Satisfactory score to place into ENGL 102 from "The Write Class" assessment tool, hosted at www.thewriteclass.com. |
| ENGL 101 Credit | AP Language and Composition score of 3 or higher. |
| ENGL 101 and 102 Credit | Satisfactory score from "The Write Class" assessment tool, hosted at www.thewriteclass.com; or AP Language and Composition score of 5; or ACT English score of 31 or higher; or SAT Critical Reading score 700-800. |

*Note: In order to receive credit for ENGL 101 and 102 based on an ACT or SAT score, students must complete the *Receiving Credit for English Composition Based on Test Scores* form and submit it to the Registrar's Office http://registrar.boisestate.edu/wp-content/uploads/2013/06/testingenglishcomp.pdf.

**Course Selection** Boise State University uses an online assessment tool, "The Write Class," to place all 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," which is hosted at www.thewriteclass.com. This online program takes multiple factors into account to determine the best placement for you. Please print out your results and bring them with you to orientation.

**Multilingual Students** If English is not your native language, you need to take the ESOL (English for Speakers of Other Language) placement test. To take the ESOL placement test, contact University Testing, (208) 426-2762, located at 1464 University Drive (next door to the Student Union Building), or see their website http://aae.boisestate.edu/testing. The ESOL placement test will place you into ENGL 122, 123, or 101.

**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. However, if you have questions about placement or transfer courses that will impact the upcoming semester, please plan accordingly. To ensure appropriate service, all placement and transfer credit issues must be received in the First-Year Writing Program Office at least ten business days prior to the start of the upcoming fall semester, and by the end of fall semester finals week for the upcoming spring semester.

Priority deadline for Fall Semester 2015 is August 4, 2015; priority deadline for Spring Semester 2016 is December 18, 2015.

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

## Mathematics Requirement

Because the ability to think quantitatively is a characteristic of an educated person, Boise State University requires students to demonstrate proficiency in mathematics. All students seeking a baccalaureate degree (and, with a few exceptions, those seeking an associate degree) must complete 3-5 credits in mathematics.

### Mathematics and Computer Science Placement Exam Policy

**Note: ACT/SAT/COMPASS 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 University Testing Services, Academic and Career Services Building, Room 115, at the time you take the exam. Photo ID is required. Personal checks are not accepted. You may take the exam at most twice during a given semester, and results are valid for placement only for the designated semester.

**Table 10.3**
**Math Placement Exam Scores/Placement**

| ACT | SAT | COMPASS | Course Placement |
|---|---|---|---|
| 18 | 430 | 40 (ALGP) | CS 115, MATH 108, MATH 123 |
| 23 | 540 | 61 (ALGP) | CS 119, MATH 143, MATH 147, MATH 157, MATH 254 |
| 27 | 620 | 51 (CALGP) | MATH 144*, MATH 160, MATH 187 |
| 29 | 650 | 51 (TRIG) | CS 117, MATH 170 |

*MATH 144 can be earned simultaneously with co-requisite MATH 143.

**Transfer students** will need to contact the Mathematics Department (office@math.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.**

**To retake a course** in which you received a D, F, or W, you **must requalify** via either a placement exam for the **current semester** or a prerequisite course (with a C- or better). Neither old placement exams nor ACT/SAT scores may be used to requalify for repeat courses.

**The developmental mathematics courses** MATH 15 Pre-Algebra and MATH 25 Elementary Algebra do not require a placement exam.

## Table 10.4 — Disciplinary Lens Courses

### Literature and Humanities (DLL)

English
- ENGL 210 Introduction to Literature

History
- HIST 100 Themes in World History
- HIST 101 History of Western Civilization
- HIST 102 History of Western Civilization

Humanities
- HUM 207 Introduction to Humanities

Philosophy
- PHIL 101 Knowledge and Reality
- PHIL 102 Classics of Western Philosophy
- PHIL 103 Moral Problems

STEM Education
- STEM-ED 220 Perspectives On Science and Mathematics

World Languages
- ARABIC 101, 102 Elementary Arabic
- ARABIC 201, 202 Intermediate Arabic
- ASL 101, 102, 201, 202 American Sign Language
- ASL 111-112 American Sign Language Online
- BASQUE 101, 102 Elementary Basque
- BASQUE 201, 202 Intermediate Basque
- BOSNIAN 101 Elementary Bosnian
- CHINESE 101, 102 Elementary Mandarin Chinese
- CHINESE 201, 202 Intermediate Mandarin Chinese
- FRENCH 101, 102 Elementary French
- FRENCH 111, 112 Elementary French Online
- FRENCH 201, 202 Intermediate French
- GERMAN 101, 102 Elementary German
- GERMAN 201, 202 Intermediate German
- JAPANESE 101, 102 Elementary Japanese
- JAPANESE 111-112 Elementary Japanese Online
- JAPANESE 201, 202 Intermediate Japanese
- KOREAN 101, 102 Elementary Korean
- KOREAN 201, 202 Intermediate Korean
- LATIN 211 Elementary Classical Latin
- LATIN 212 Advanced Classical Latin
- PORTUGUESE 101, 102 Elementary Portuguese
- SPANISH 101, 102 Elementary Spanish
- SPANISH 111-112 Elementary Spanish Online
- SPANISH 201 Intermediate Spanish I
- SPANISH 202 or SPANISH 203 Intermediate Spanish II

### Mathematics (DLM)

Mathematics
- MATH 123 Quantitative Reasoning
- MATH 143 College Algebra
- MATH 160 Survey of Calculus
- MATH 170 Calculus I
- MATH 254 Introduction To Statistics
- MATH 257 Geometry and Probability for Teachers

### Natural, Physical and Applied Sciences (DLN)

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

Anthropology
- ANTH 101* Biological Anthropology
- ANTH 103* Introduction to Archeology
- ANTH 105* Evolution and Human Behavior

Biology
- BIOL 100 Concepts of Biology
- BIOL 107 Introduction to Human Biology
- BIOL 191 General Biology I
- BIOL 227 Human Anatomy and Physiology

Chemistry
- CHEM 100 Concepts of Chemistry
- CHEM 101*-101L Essentials of Chemistry I and Lab
- CHEM 111*-111L General Chemistry I and Lab

Engineering
- ENGR 100* Energy for Society
- ENGR 101* Intro to Sustainable Building Science
- ENGR 104 Introduction to Scientific Reasoning
- ENGR 106* Smartphone Engineering
- ENGR 108 Bicycle Engineering
- ENGR 120 Introduction to Engineering
- ENGR 130 Introduction to Engineering Applications
- ENGR 245* Introduction to Materials Science and Engineering

Environmental Studies
- ENVSTD 121* Introduction to Environmental Studies

Geoscience
- GEOS 100 Fundamentals of Geology
- GEOS 101 Global Environmental Science

Physics/Physical Science
- PHYS 101 Introduction to Physics
- PHYS 104 Planets and Astrobiology
- PHYS 105 Stars and Cosmology
- PHYS 111-112 General Physics
- PHYS 211, 211L Physics I with Calculus and Lab
- PHYS 212, 212L Physics II with Calculus and Lab

### Social Sciences (DLS)

Anthropology
- ANTH 102 Social-Cultural Anthropology
- ANTH 216 Magic, Witchcraft and Religion

Communication
- COMM 101 Fundamentals of Communication
- COMM 112 Reasoned Discourse

Criminal Justice
- CJ 103 Introduction to Law and Justice

Curriculum, Instruction, & Foundational Studies
- ED-CIFS 201 Foundations of Education

Economics
- ECON 201 Principles of Macroeconomics
- ECON 202 Principles of Microeconomics

Educational Technology
- EDTECH 203 Foundations of Digital Culture

English
- ENGL 202 Introduction to Technical Communication

Environmental Health/Health Studies
- ENVHLTH 102 (HLTHST 102) Global Environmental Health

Geography
- GEOG 100 Introduction to Geography
- GEOG 102 Cultural Geography

History
- HIST 121 Eastern Civilizations

International Business
- INTBUS 220 Go Global: You and the World Economy

Kinesiology
- KINES 140 Personal Health
- KINES 180 Introduction to Coaching

Linguistics
- LING 205 Language in Human Life

Literacy, Language, and Culture
- ED-LLC 200 Cultural Diversity in the School
- ED-LLC 203 Film and Contemporary Issues in Education

Political Science
- POLS 101 American National Government

Psychology
- PSYC 101 General Psychology

Social Work
- SOCWRK 101 Introduction to Social Welfare

Sociology
- SOC 101 Introduction to Sociology
- SOC 102 Social Problems
- SOC 230 Introduction to Ethnic Studies

STEM Education
- STEM-ED 210 Knowing and Learning in Mathematics and Science

### Visual and Performing Arts (DLV)

Art/Art History
- ART 100 Introduction to Art
- ARTHIST 101 Survey of Western Art

Music
- MUS 100 Introduction to Music
- MUS 102 Introduction to Jazz

Theatre Arts
- THEA 101 Introduction to Theatre
- THEA 220 Cinema History and Aesthetics

## Foundational Studies Program

### Philosophy of the Foundational Studies Program

Boise State's Foundational Studies Program offers an integrated, sequential, multi-disciplinary learning experience that illustrates the University's commitment to undergraduate education from entrance to graduation. The Program's distinctive features establish the university as a leader in empowering students and enabling them to achieve academic excellence. Foundational Studies Program courses constitute a coherent framework on which departments establish the educational opportunities specific to the needs of their disciplines.

From the time they enter the university, students encounter skilled and motivated faculty members in courses that feature diverse opportunities for examination of historical, intellectual, and ethical traditions. Courses focus on the kinds of 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 communication and learning. Courses in the Foundational Studies Program have clearly articulated goals (University Learning Outcomes). A built-in process for robust assessment fosters on-going improvement. A complete description of the Foundational Studies Program may be found at: http://academics.boisestate.edu/fsp/.

### University Learning Outcomes

The eleven desired university learning outcomes (ULOs) listed below were developed by the faculty to provide undergraduates with a common experience aimed at unifying the university's diverse student body and expanding students' awareness of themselves and their world. Every Boise State graduate is expected to have met these ULOs, regardless of major or baccalaureate degree.

Foundational Studies Program University Learning Outcomes (ULOs) by Cluster:

**Intellectual Foundations**

1. Writing
   - Write effectively in multiple contexts, for a variety of audiences.
2. Oral Communication
   - Communicate effectively in speech, both as speaker and listener.
3. Critical Inquiry
   - Engage in effective critical inquiry by defining problems, gathering and evaluating evidence, and determining the adequacy of argumentative discourse.
4. Innovation and Teamwork
   - Think creatively about complex problems to produce, evaluate, and implement innovative possible solutions, often as one member of a team.

**Civic and Ethical Foundations**

5. Ethics
   - Analyze ethical issues in personal, professional, and civic life and produce reasoned evaluations of competing value systems and ethical claims.
6. Diversity and Internationalization
   - Apply knowledge of cultural differences to matters of local, regional, national, and international importance, including political, economic, and environmental issues.

**Distribution Requirements/Disciplinary Lens Clusters**

7. Mathematics (DLM)
   - Apply knowledge and the methods of reasoning characteristic of mathematics, statistics, and other formal systems to solve complex problems.
8. Natural, Physical, and Applied Sciences (DLN)
   - Apply knowledge and the methods characteristic of scientific inquiry to think critically about and solve theoretical and practical problems about physical structures and processes.
9. Visual and Performing Arts (DLV)
   - Apply knowledge and methods characteristic of the visual and performing arts to explain and appreciate the significance of aesthetic products and creative activities.
10. Literature and Humanities (DLL)
    - Apply knowledge and the methods of inquiry characteristic of literature and other humanities disciplines to interpret and produce texts expressive of the human condition.
11. Social Sciences (DLS)
    - Apply knowledge and the methods of inquiry characteristic of the social sciences to explain and evaluate human behavior and institutions.

ULOs 1-6 are competency-based outcomes that are developed throughout the academic career and in multiple courses and contexts. After exposure to these Learning Outcomes in early courses, students revisit them in greater depth throughout their college experiences and academic programs.

ULOs 7-11 are associated with disciplinary course clusters that represent multiple perspectives to be encountered during a student's academic career. Courses are aligned with the Disciplinary Lens 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: http://www.aacu.org/leap/index.cfm.

### Foundational Studies Program Requirements

I. Introduction to College Writing and Research (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. Students are placed in appropriate courses based on test scores. See College First-Year Writing Requirement, for details.

II. Foundational Studies Program (UF) Courses

1. Courses with a UF (University Foundations) prefix introduce a diversity of intellectual pursuits, encourage a critical stance toward learning, and equip students with university-level analytic and communication skills.
2. Intellectual Foundations (UF 100). This required three-credit course offers entering students a combination of large general sessions and small-format discussion sections (~25 students) in which to transition into the university, with its academic and social expectations. Multi-disciplinary sections are organized around central themes that are listed in the course schedule for each semester. Courses support ULOs 2, 3, and 4 incorporate the Campus Read.
3. Civic and Ethical Foundations (UF 200). This required, three-credit sophomore-level course is delivered in medium size (~30 students) classes. It engages students in topics connected to ethics, diversity and internationalization, often through experiential learning. Courses support ULOs 1, 5 and 6. Prerequisites: ENGL 101, ENGL 102, UF 100, and sophomore standing.
4. Transitional Foundations (UF 300). This three-credit course is only for transfer students who enter the university as "core certified."(See http://registrar.boisestate.edu/transfers/transfer-equivalency/.) Core certified transfer students are not required to take UF 100 and UF 200, but must take UF 300, which introduces them to the common learning experiences on which a Boise State education is based. UF 300 serves the learning outcomes of both UF 100 and UF 200, but with higher achievement expectations. Supports ULOs 1, 2, 3, 4, 5, and 6 and incorporates the Campus Read.

III. Disciplinary Lens (DL) Courses

- All students are required to take a number of disciplinary lens courses. (See degree box for specific requirements.) DL courses are offered by academic departments and designed to expose non-majors to the distinctive methods and perspectives of a disciplinary cluster. The distribution requirement for DL courses reflects 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. Note that DL requirements include a mathematics course. Students are placed in an appropriate mathematics course based on test scores and previous

coursework. See above for specifics. Disciplinary lens courses are listed in Table 10.4 and are identified with DL in the course description. Some departments and programs require specific DL courses.

IV. Communication in the Discipline (CID) Courses

- Students must successfully complete CID credits in courses designated by their major department. CID courses are offered at the 200, 300, or 400-level for those who have successfully completed the College First-Year Writing requirement. The courses focus on written and oral communication as practiced in the discipline and are not necessarily conducted in English. CID courses are listed in the major requirements for each program. All CID courses must be at least 2 credits and are identified by CID in the course description.

V. Finishing Foundations (FF) Courses

- Students must successfully complete capstone (FF) credits designated by their major departments and range from 1-3 credits. Finishing foundations courses are designated for students close to graduation. They are identified with FF in the course description.

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

**Table 10.5 Minimum Credit Requirements for all Baccalaureate Degrees**

| *Content* | *Notes* | *Credits* |
|---|---|---|
| Communications | | |
| College First-Year Writing | | |
| **ENGL 101** Introduction to College Writing | | 3 |
| **ENGL 102** Intro to College Writing and Research | | 3 |
| Communication in the Discipline (**CID**)* | | 2-3 |
| Foundations | | |
| **UF 100** Intellectual Foundations | | 3 |
| **UF 200** Civic and Ethical Foundations | | 3 |
| Finishing Foundations (capstone course in discipline)(**FF**)* | | 1-3 |
| Disciplinary Lens | | |
| Mathematics (**DLM**) | | 3-4 |
| Natural, Physical, and Applied Sciences (**DLN**) | | |
| Natural, Physical, and Applied Sciences course with lab | | 4 |
| Natural, Physical, and Applied Sciences course | | 3-4 |
| Visual and Performing Arts (**DLV**) | | 3 |
| Literature and Humanities (**DLL**) | | 3-4 |
| Social Sciences (**DLS**) | | |
| Social Sciences course in one field | | 3 |
| Social Sciences course in second field | | 3 |
| Major | | 77-83 |
| See the requirements for your major in Chapter 12–Academic Programs and Courses. | | |
| Total | | 120 |

*These courses are satisfied by discipline (i.e., major) requirements. Communication in the Discipline must be at least 2 credits. Finishing Foundations must be 1-3 credits in a particular course.

**Table 10.6 Minimum Credit Requirements for Bachelor of Business Administration Degree (BBA)**

| *Content* | *Notes* | *Credits* |
|---|---|---|
| English Composition | | |
| **ENGL 101** Introduction to College Writing | | 3 |
| **ENGL 102** Intro to College Writing and Research | | 3 |
| Communication in the Discipline (**CID**) | | |
| BUSCOM 201 Business Communication | | 3 |
| **UF 100** Intellectual Foundations | | 3 |
| **UF 200** Civic and Ethical Foundations | | 3 |
| Finishing Foundations (capstone course in discipline)(**FF**) | | |
| GENBUS 450 Business Policies | | 3 |
| Mathematics (**DLM**) | | |
| MATH 160 Survey of Calculus or MATH 170 Calculus I | | 4 |
| Natural, Physical, and Applied Sciences (**DLN**) | | |
| Natural, Physical, and Applied Sciences course with lab | | 4 |
| Natural, Physical, and Applied Sciences course | | 3-4 |
| Visual and Performing Arts (**DLV**) | | 3 |
| Literature and Humanities (**DLL**) | | 3-4 |
| Social Sciences (**DLS**) | | |
| ECON 201 Principles of Macroeconomics | | 3 |
| Social Sciences course in a second field | | 3 |
| Degree | | |
| ACCT 205 Introduction to Financial Accounting | | 3 |
| ACCT 206 Introduction to Managerial Accounting | | 3 |
| BUSSTAT 207-208 Statistical Techniques for Decision Making I, II6 | | |
| ECON 202 Principles of Microeconomics | | 3 |
| FINAN 303 Principles of Finance | | 3 |
| GENBUS 101 Business for the New Generation | | 3 |
| GENBUS 202 The Legal Environment of Business or GENBUS 304 Law For Accountants I | | 3 |
| Successful completion of the COBE Computer Placement Exam for: Word Processing and Spreadsheet, or ITM 104 Operating Systems & Word Processing Topics and ITM 105 Spreadsheet Topics | | 0-2 |
| ITM 310 Business Intelligence or ACCT 350 Accounting Information Systems | | 3 |
| MGMT 301 Leadership Skills | | 3 |
| MKTG 301 Principles of Marketing | | 3 |
| SCM 345 Principles of Operations Management | | 3 |
| Major | | |
| See the requirements for your major in Chapter 12–Academic Programs and Courses. | | |

*These courses are satisfied by discipline (e.g., major) requirements. Communication in the Discipline must be at least 2 credits. Finishing Foundations must be 1-3 credits in a particular course.

## Academic and Career Advising

Academic and career advising is the process by which students seek assistance to form and create plans to achieve educational and career goals. Advisors assist students in exploring life goals, values, abilities, and skills and provide information and support to foster a sense of responsibility in students to achieve their goals. Academic and career advising at Boise State University is coordinated through two separate offices, Advising and Academic Enhancement and the Career Center. Both offices provide services that help students explore the relationship between educational and career goals and connect to appropriate resources.

The Career Center offers a variety of important career decision making and planning tools, resources, and services. Please see Chapter 9 for a full description or visit career.boisestate.edu.

Academic advising at Boise State includes:

- ongoing contact with informed and supportive faculty, staff, and peer advisors
- required advising appointments during a student's first semester at Boise State prior to registration for second semester courses
- degree planning, including introduction to and explanation of academic requirements, policies and procedures
- referral to campus resources
- exploration of academic skill building resources and success strategies for timely graduation

### How to connect with your academic advisor

Once you have selected a major, you will work with a faculty or staff advisor from your department. To view advising contacts by major, go to http://aae.boisestate.edu/advisingcontacts/ or log in to your myBoiseState Student Center and select the Advisor tab for contact information.

If you have not selected a major, you will work with an advisor in Advising and Academic Enhancement. Please visit http://aae.boisestate.edu/advisors/ or call 426-4049 or e-mail academic@boisestate.edu to make an appointment.

### Degree Tracker

Having students graduate in a timely manner is a top priority at Boise State. To assist students and advisors in sequencing courses toward degree completion, a planning tool has been implemented. The tool, Degree Tracker, presents a personalized, multi-term degree plan based on your major and progress. The entire academic path, from day one to graduation, is mapped out for you to follow. A user-friendly interface makes academic planning intuitive and efficient. You are able to enroll in classes directly from the suggested Degree Tracker plan. You and your advisors have the same ability to access and update information in your Degree Tracker profile. You must refer to your 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 credits for each additional degree you wish to earn. Those 30 credits must be earned at Boise State. In addition, you must meet all of the course requirements in your major and meet any other requirements of the university.

In order 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 foundational studies program requirements (for details, see page 50), though you may have to take foundational studies 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 Admissions and Degree Services Office, Riverfront Hall, Room 307, (208) 426-3647. If you already have a baccalaureate degree and will be taking undergraduate courses, you need to apply through Undergraduate 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 at (208) 426-4249 or regmail@boisestate.edu. If you have already applied for graduation and need to change your catalog, e-mail 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 SPANISH 102 Elementary Spanish II, you must first have completed SPANISH 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 on the basis of 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 a student 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 21 for an associate degree) in a combination of all forms of experiential learning (portfolio, challenge, CLEP credits, AP credit, DSST credits, Credit for Prerequisites Not Taken, ACE Guide credits, military credit, etc.). No more than one-quarter may be earned in portfolio credit (30 credits for a baccalaureate degree and 16 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. The Registrar's Office will transcript credits awarded through prior learning after a student has successfully completed 12 credit hours at Boise State University.

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
- 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 University generally will follow the guidelines provided by *The American Council on Education (ACE) Guide to Educational Credit by Examination* and *The ACE Guide to Military and Other Training Programs*. Credits awarded through The ACE Guide recommendations and national standardized tests (CLEP, AP, etc.) are recorded with a grade of P (*Pass*) after you have enrolled in coursework at Boise State University. **Credits earned through any form of experiential learning may not be used to repeat a class already completed.**

A detailed list of all the types of prior learning for which you may receive credit is available at http://registrar.boisestate.edu/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:

- 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. Exams cover the areas of Social Science, Business, Mathematics, Humanities, and Physical Science.
- **USAFI/DANTES Exams** are primarily available to personnel on active duty in the Army, Navy, Air Force, Marine Corps, and Coast Guard, and to the cadets and midshipmen of the military academies. These are similar to CLEP subject exams in that they test achievement in college-level subjects.
- **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.
- **IBO International Baccalaureate Diploma Program Examinations.** The IBO's Diploma Program (DP) is a demanding course of study that leads to culminating exams for highly motivated high school students. Only High Level (HL) exams will receive college-level credit at Boise State University. A minimum score of 4 is required to receive credit.

### 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 which courses are 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 University, 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. A $50 per course fee will be charged to take a challenge exam prepared by an academic department. For externally prepared challenge exams, a $20 per course fee is paid to the university. Any Boise State fees for tests are paid directly by the student. Any proctoring/testing center fees are paid by the academic department out of the university fee. Fees charged are the same regardless of whether a student is full-time or part-time. 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. A $20 - $50 per course fee will be charged to apply for credit for prerequisites not taken and to take the appropriate test. Any fees for externally prepared tests are paid by the student. Any proctoring/testing center fees are paid by the academic department out of the university fee. Fees charged are the same regardless of whether a student is full-time or part-time. 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 furnish the Veteran Services 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

You may earn credit for training programs listed in the *National Guide to Education Credit for Training Programs*, published by the American Council on Education. You may also earn credit for training programs listed in *A Guide to Educational Programs in Noncollegiate Organizations*, published by the University of the State of New York.

### 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 are determined by the academic department in which the credit is being requested. To apply for credit through this method, you will be required to pay a $75.00 per course fee to have your portfolio reviewed. 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 mid-term of the semester in which you begin the last 30 of your last 36 credit hours.

### Kinesiology Activity Courses

Kinesiology activity courses (KIN-ACT) are offered by the Department of Kinesiology. The goal of the KIN-ACT 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 kinesiology 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 to participate in internships and receive academic credit for professional experience that is relevant to their 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 students with a way to link coursework with community projects. Through service-learning, students receive course credit for participating in service opportunities that are intentionally designed to promote learning while helping meet human and community needs. More than 100 classes offer service-learning experiences. In most classes the service-learning is fully-integrated (a course assignment); in other classes it is optional. The "fully integrated" service-learning classes are searchable on myBoiseState by selecting "integrated service-learning" in the designation drop-down menu. These classes use service experiences as the basis for papers, discussion, and other assignments. Instructors deliberately link the course content with the service experience. Service ranges from 10 to 30 hours, and is at the discretion of the faculty member. For more information, contact the Service-Learning staff at (208) 426-1004. There is no limit to the number of fully integrated service-learning courses you can take.

Some classes offer an additional course credit ("Service-Learning Lab") for 45 hours of course-related service and reflection. In the online course search, 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 3 service-learning labs in a semester. You may apply no more than 9 service-learning labs toward your degree. For more information, contact the Service-Learning staff at (208) 426-1004.

### 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 the http://registrar.boisestate.edu/forms/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 compliment 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 credits hours of independent study and undergraduate research towards 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

Graduation honors are awarded to students receiving their first baccalaureate degree, according to the scale shown in Table 10.7 below. Honors are awarded on the basis of all semesters completed, and the student's final transcript remains the official record of any honors granted. However, in honoring a student at commencement, Boise State uses the student's cumulative grade-point average (GPA) at the end of either spring or summer semester for the December ceremony and fall semester for the May ceremony.

**Table 10.7**
**Graduation Honors**

| Cumulative Grade-Point Average | Honor |
|---|---|
| 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

You may apply for graduation by logging on to your myBoiseState Student Center account (https://my.boisestate.edu/). A nonrefundable graduation application fee must be paid when applying.

To ensure your candidacy, please review your degree information on myBoiseState with your academic advisor. You must apply for graduation no later than the end of the first week of the semester you intend to graduate (see the Academic Calendar for the exact date). A graduation evaluator will review your application after the 10th day of classes of the semester in which you intend to graduate. Upon review of your application, you will receive an e-mail notifying you if you are a valid candidate for graduation.

**Note:** All graduating students must pay the graduation application fee, regardless of whether they intend to participate in commencement and regardless of whether they 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 minor certification endorsements in secondary education programs. Requirements for all certificates, endorsements, and minors are listed in Chapter 12—Academic Programs and Courses.

**Note:** A minor must be earned with a baccalaureate degree. In order for a minor to be officially recorded on your transcript, you must complete all required coursework in that minor **before** you receive your degree. You may not earn a minor in the same field as your major. Minor certification endorsements are awarded by the State Department of Education and are not recorded on Boise State transcripts. For general degree requirements of certificates, see page 47.

## 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. The transferring of credits is completed only for students seeking their first baccalaureate degree.

The Idaho State Board of Education policy limits transfer credit from junior or community colleges to 70 credits. Boise State accepts all of your transfer credit from regionally accredited junior or community colleges, however the amount in excess of 70 credits will also be added to your total number of credits needed for graduation. So, if your major requires a minimum of 120 credits for graduation and you transfer in 80 credits from a junior or community college,

your minimum total credits required for graduation would be adjusted to 130 credits.

Boise State accepts college-level credit, if those credits were granted by institutions accredited by regional accrediting associations, as reported in *Accredited Institutions of Post-Secondary Education* (published by the Council on Post-Secondary Accreditation). If you earn credits from an institution not listed in *Accredited Institutions of Post Secondary Education*, 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 not required to take UF 100 and UF 200, but must take UF 300 if you:

- Transfer from a U.S. regionally-accredited academic institution and have earned an academic A.A. or A.S. degree
- Transfer from a U.S. regionally-accredited academic institution and have completed the equivalent of Idaho's State Board of Education general-education core (but have not completed an A.A. or A.S. degree)

If you earned an academic associate degree from a regionally accredited institution and your credits were evaluated by Boise State University prior to June 2004, we recommend resubmitting official transcripts for core certification review.

For purposes of counting lower- or upper-division credit required for graduation, the university uses the course number of the transferring institution. So, if the course is numbered at the 100- or 200-level by the transfer institution, it will be counted as lower-division at Boise State. If the course is numbered at the 300- or 400-level 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.

**Note:** If your major requires completion of a specific disciplinary lens course that was not completed as a transfer course, you would need to complete the additional course to earn a degree.

In all other cases, your transcript is evaluated on a course-by-course basis to determine which Boise State foundational studies requirements you must meet. For more information about Foundational Studies requirements, see the section titled "Foundational Studies Program," in this chapter.

## Questions About These Policies?

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

# Chapter 11 — Summary of Programs and Courses

Table 11.1 is an alphabetical listing of all undergraduate degrees and majors offered by Boise State. See the *Boise State University Graduate Catalog* for a listing of all graduate programs.

**Table 11.1 Degrees, Majors, Minors, Certificates, and Transfer Programs Offered at Boise State University**

| *Program* | *Degree* | *Certificate, Minor or Transfer Program* | *Department/School* | *Page* |
|---|---|---|---|---|
| Accountancy | B.B.A. | Minor | Accountancy | 65 |
| Accountancy, Internal Audit Option | B.B.A. | | Accountancy | 65 |
| Addictions Studies | | Minor | Community and Environmental Health | 105 |
| American Sign Language | | Certificate, Minor | World Languages | 270, 271 |
| Anthropology | B.S. | Minor | Anthropology | 67 |
| Applied Mathematics<br>Statistics Emphasis | B.S. | Minor | Mathematics | 204, 206 |
| Arabic Studies | | Certificate, Minor | World Languages | 270, 271 |
| Art Education | B.F.A. | | Art | 71 |
| Associate of Arts/Associate of Science | A.A./A.S. | | College of Arts and Sciences | 77 |
| Athletic Training | B.S. | | Kinesiology | 181 |
| Bachelor of Applied Science | B.A.S. | | College of Arts and Sciences | 78 |
| Basque Studies | | Certificate, Minor | World Languages | 270, 272 |
| Biology | B.S. | Minor | Biological Sciences | 79, 82 |
| Biology<br>Botany Emphasis<br>Ecology Emphasis<br>Environmental Biology Emphasis<br>Human Biology Emphasis<br>Microbiology, Molecular and Cell Biology Emphasis<br>Secondary Education Emphasis<br>Zoology Emphasis | B.S. | | Biological Sciences | 79 |
| Biological Science Teaching Endorsement Minor | | Minor | Biological Sciences | 82 |
| Biomedical Engineering | | Minor | College of Engineering | 86 |
| Business | | Minor | College of Business and Economics | 86 |
| Business Economics | B.B.A. | | Economics | 133 |
| Canadian Studies | | Minor | School of Public Service | 87 |
| Chemistry<br>ACS Certified Biochemistry Emphasis<br>ACS Certified Professional Emphasis<br>Biochemistry Emphasis<br>Forensics Emphasis<br>Secondary Education Emphasis | B.S. | Minor | Chemistry and Biochemistry | 88, 89 |
| Chemistry Teaching Endorsement Minor | | Minor | Chemistry and Biochemistry | 89 |
| Chinese (Mandarin) Studies | | Certificate, Minor | World Languages | 270, 272 |
| Cinema and Digital Media Studies | | Certificate | Communication | 97 |
| Civil Engineering<br>Secondary Education Emphasis | B.S. | | Civil Engineering | 91 |
| Communication<br>Journalism and Media Studies Emphasis<br>Media Production Emphasis<br>Public Communication Emphasis<br>Relational and Organizational Studies Emphasis | B.A. | Minor | Communication | 95, 97 |
| Computational Science and Engineering | | Minor | College of Arts and Sciences/College of Engineering | 113 |
| Computed Tomography | | Certificate | Radiologic Sciences | 245 |

*continued*

*Table 11.1 Degrees, Majors, Minors, Certificates, and Transfer Programs Offered (continued)*

| *Program* | *Degree* | *Certificate, Minor or Transfer Program* | *Department/School* | *Page* |
|---|---|---|---|---|
| Computer Science<br>Secondary Education Emphasis | B.S. | Minor | Computer Science | 114, 115 |
| Construction Management | B.S. | Minor | Construction Management | 117, 118 |
| Criminal Justice | A.S., B.S.. | | Criminal Justice | 120 |
| Cybersecurity | | Minor | Computer Science | 115 |
| Dance | | Minor | Theatre Arts | 263 |
| Diagnostic Medical Sonography | | Certificate | Radiologic Sciences | 245 |
| Dispute Resolution (Life Skills Focus, Mediation Focus) | | Certificate | Public Policy and Administration | 128 |
| Early and Special Education, Dual Early Childhood Intervention, Elementary Education Certification | B.A. | | Early and Special Education | 130 |
| Early and Special Education, Dual Special Education, Early Childhood Intervention Certification | B.A. | | Early and Special Education | 130 |
| Early and Special Education, Dual Special Education, Elementary Education Certification | B.A. | | Early and Special Education | 131 |
| Earth Science Teaching Endorsement Minor | | Minor | Geosciences | 157 |
| Economics | B.A. | Minor | Economics | 133, 135 |
| Economics, Quantitative Emphasis | B.A. | | Economics | 134 |
| Economics, Social Science, Secondary Education | B.A. | | Economics | 134 |
| Electrical Engineering<br>IDoTeach Secondary Education Emphasis | B.S. | Minor | Electrical & Computer Engineering | 138, 139 |
| Elementary Education | B.A. | | Curriculum, Instruction, & Foundational Studies | 124 |
| Elementary Education, Bilingual/ENL | B.A. | | Literacy, Language, and Culture | 188 |
| Elementary Education, TESOL/ENL | B.A. | | Literacy, Language, and Culture | 189 |
| English | | Minor | English | 147 |
| English, Linguistics Emphasis | B.A. | | English | 144 |
| English, Literature Emphasis | B.A. | | English | 145 |
| English Teaching | B.A. | | English | 145 |
| English, Technical Communication Emphasis | B.A. | | English | 146 |
| English, Writing Emphasis | B.A. | | English | 147 |
| Entrepreneurship Management | B.B.A. | Minor | Management | 193, 194 |
| Environmental and Occupational Health | B.S. | | Community and Environmental Health | 102 |
| Environmental Studies | B.A. | Minor | College of Arts and Sciences | 152 |
| Ethnic Studies | B.A. | Minor | Sociology | 256, 257 |
| Family Studies | | Minor | College of Arts and Sciences | 154 |
| Finance | B.B.A. | Minor | Marketing and Finance | 197, 198 |
| French | B.A. | Certificate, Minor | World Languages | 267, 270, 272 |
| French, Secondary Education | B.A. | | World Languages | 267 |
| Gender Studies | | Minor | College of Arts and Sciences | 154 |
| General Business | B.B.A. | | Management | 192 |
| Geosciences<br>Geology Emphasis<br>Geophysics Emphasis<br>Hydrology Emphasis<br>Secondary Education Emphasis | B.S. | | Geosciences | 156 |
| Geospatial Information Analysis | | Minor | Geosciences | 157 |
| German | B.A. | Certificate, Minor | World Languages | 268, 270, 272 |

*continued*

*Table 11.1 Degrees, Majors, Minors, Certificates, and Transfer Programs Offered (continued)*

| *Program* | *Degree* | *Certificate, Minor or Transfer Program* | *Department/School* | *Page* |
|---|---|---|---|---|
| German, Secondary Education | B.A. | | World Languages | 268 |
| Gerontology | | Minor | Interdisciplinary Studies in Aging | 174 |
| Graphic Design | B.F.A. | | Art | 72 |
| Health Education and Promotion | B.S. | | Kinesiology | 181 |
| Health Science Studies<br>General Health Emphasis<br>Gerontology Emphasis<br>Health Informatics and Information Management Emphasis<br>Health Policy and Leadership Emphasis<br>Prevention and Addiction Studies Emphasis<br>Public Health, Science Emphasis<br>Science Emphasis | B.S. | | Community and Environmental Health | 103 |
| History | B.A. | Minor | History | 161, 163 |
| History, Secondary Education | B.A. | | History | 162 |
| History, Social Science, Secondary Education | B.A. | | History | 163 |
| History of Art and Visual Culture | B.A. | Minor | Art | 73 |
| Human Resource Management | B.B.A. | Minor | Management | 193, 194 |
| Illustration | B.F.A. | | Art | 73 |
| Industrial Engineering | | Minor | College of Business and Economics/ College of Engineering | 170 |
| Information Technology Management | B.B.A. | Minor | Information Technology & Supply Chain Management | 171 |
| Interdisciplinary Studies | B.A., B.S. | | Honors College | 176 |
| Internal Auditing | | Minor | Accountancy | 65 |
| International Business | B.B.A. | Minor | International Business Program | 177, 178 |
| Japanese Studies | | Certificate, Minor | World Languages | 271, 272 |
| K-12 Physical Education | B.S. | | Kinesiology | 179 |
| Kinesiology<br>Biomechanics Emphasis<br>Exercise Science Emphasis<br>Pre-Allied Health Emphasis | B.S. | | Kinesiology | 180 |
| Korean | | Certificate | World Languages | 272 |
| Latin | | Certificate, Minor | World Languages | 271, 272 |
| Latin American and Latino/a Studies | | Minor | World Languages | 271 |
| Leadership and Human Relations | | Certificate | College of Innovation and Design | 187 |
| Magnetic Resonance Imaging | | Certificate | Radiologic Sciences | 245 |
| Marketing | B.B.A. | Minor | Marketing and Finance | 198 |
| Materials Science and Engineering<br>Secondary Education Emphasis | B.S. | Minor | Materials Science and Engineering | 201, 202 |
| Mathematics<br>Secondary Education Emphasis | B.S. | Minor | Mathematics | 205, 206 |
| Mathematics Teaching Endorsement Minor | | Minor | Mathematics | 206 |
| Mechanical Engineering<br>Secondary Education Emphasis | B.S. | | Mechanical and Biomedical Engineering | 209 |
| Mexican-American Studies | | Minor | Sociology | 257 |
| Military Science | | Minor | Military Science | 213 |
| Multidisciplinary Studies | B.A. | | College of Arts and Sciences | 215 |
| Music | B.A. | Minor | Music | 219, 220 |

*continued*

*Table 11.1 Degrees, Majors, Minors, Certificates, and Transfer Programs Offered (continued)*

| *Program* | *Degree* | *Certificate, Minor or Transfer Program* | *Department/School* | *Page* |
|---|---|---|---|---|
| Music, Composition | B.M. | | Music | 218 |
| Music, Performance<br>Bowed Strings Option<br>Piano Option<br>Voice Option<br>Wind/Brass/Percussion Option | B.M. | | Music | 217 |
| Music Education | B.M. | | Music | 218 |
| Native American Studies | | Minor | Anthropology | 67 |
| Nonprofit Management | | Minor | Management | 194 |
| Nursing | B.S. | | Nursing | 225 |
| Philosophy | B.A. | Minor | Philosophy | 229 |
| Physical Science Teaching Endorsement Minor | | Minor | Physics | 232 |
| Physics<br>Applied Physics Emphasis<br>Astrophysics Emphasis<br>Biophysics Emphasis<br>Secondary Education Emphasis | B.S. | Minor | Physics | 231, 232 |
| Physics Teaching Endorsement Minor | | Minor | Physics | 232 |
| Political Science<br>American Government and Public Policy Emphasis<br>International Relations and Comparative Politics Emphasis<br>Public Law and Political Philosophy Emphasis | B.S. | Minor | Political Science | 234, 236 |
| Political Science, Social Science, Secondary Education | B.S. | | Political Science | 235 |
| Pre-Chiropractic | | Transfer | Community and Environmental Health | 107 |
| Pre-Dental Hygiene | | Transfer | Community and Environmental Health | 107 |
| Pre-Dental Studies<br>Biology Option<br>Chemistry Option | B.S. | | Community and Environmental Health | 106 |
| Pre-Dietetics | | Transfer | Community and Environmental Health | 107 |
| Pre-Forestry and Pre-Wildlife Management | | Transfer | Biological Sciences | 86 |
| Pre-Medical Laboratory Science | | Transfer | Community and Environmental Health | 108 |
| Pre-Medical Studies<br>Biology Option<br>Chemistry Option | B.S. | | Community and Environmental Health | 106 |
| Pre-Occupational Therapy | | Transfer | Community and Environmental Health | 108 |
| Pre-Optometry | | Transfer | Community and Environmental Health | 108 |
| Pre-Pharmacy | | Transfer | Community and Environmental Health | 109 |
| Pre-Physical Therapy | | Transfer | Community and Environmental Health | 109 |
| Pre-Physician Assistant | | Transfer | Community and Environmental Health | 109 |
| Pre-Speech Language Pathology | | Transfer | Community and Environmental Health | 110 |
| Pre-Veterinary Medicine | B.S. | | Community and Environmental Health | 106 |
| Psychology | B.S. | Minor | Psychology | 239 |
| Public Relations | | Certificate | Communication | 97 |
| Radiologic Sciences<br>Computed Tomography Emphasis<br>Diagnostic Medical Sonography Emphasis<br>Diagnostic Radiology Emphasis<br>Magnetic Resonance Imaging Emphasis | B.S. | | Radiologic Sciences | 243 |
| Refugee Services | | Certificate | Social Work | 253 |
| Refugee Studies | | Minor | History | 164 |
| Respiratory Care | B.S. | | Respiratory Care | 248 |

*continued*

*Table 11.1 Degrees, Majors, Minors, Certificates, and Transfer Programs Offered (continued)*

| *Program* | *Degree* | *Certificate, Minor or Transfer Program* | *Department/School* | *Page* |
|---|---|---|---|---|
| Social Science | A.A., B.S. | | Sociology | 255, 256 |
| Social Work | B.A. | | Social Work | 252 |
| Sociology | B.S. | Minor | Sociology | 255 |
| Sociology, Social Science, Secondary Education | B.A. | | Sociology | 258 |
| Spanish | B.A. | Certificate, Minor | World Languages | 269, 271, 272 |
| Spanish, Secondary Education | B.A. | | World Languages | 269 |
| Supply Chain Management | B.B.A. | Minor | Information Technology & Supply Chain Management | 172 |
| Sustainability | | Minor | Economics | 260 |
| Technical Communication | | Certificate | English | 147 |
| Theatre Arts<br>Dance Option<br>Design Option<br>Directing Option<br>Dramatic Writing Option<br>Performance Option<br>Stage Management Option | B.A. | Minor | Theatre Arts | 261, 263 |
| Theatre Arts, Secondary Education | B.A. | | Theatre Arts | 262 |
| Visual Art | B.A. | Minor | Art | 69, 74 |
| Visual Art<br>Art Metals Emphasis<br>Ceramics Emphasis<br>Drawing and Painting Emphasis<br>Interdisciplinary Art Studio Emphasis<br>Photography Emphasis<br>Printmaking Emphasis<br>Sculpture Emphasis | B.F.A. | | Art | 69 |

## 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 (0 to 4 credits).** Special topics courses address special or unusual material not covered by the regular course offerings. Special topics courses may be offered no more than three times; after that, the course must be approved by the University 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.

**239, 439 Foreign Study (number of credits varies).** Foreign study credits are granted by academic departments that participate in academic programs abroad.

**283, 479 Undergraduate Research Experience (1 to 3 credits).** 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.

**293, 493 Internship (number of credits varies).** 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 internship credits may be used to meet degree requirements or university graduation requirements.

**294, 494 Conference or Workshop (0 to 4 credits).** 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.

**453 Professional Education (number of credits varies).** 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).

**496 Independent Study (1 to 4 credits).** 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.

**498, 499 Seminar (1 to 4 credits).** 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.

## Course Prefixes

Table 11.2 below, lists all of the course prefixes used at Boise State University. A course prefix is the two or more letter code preceding a course number; it indicates the subject area of the course.

**Table 11.2 Course Prefixes**

| | |
|---|---|
| ACAD | Academic |
| ACCT | Accountancy |
| ANTH | Anthropology |
| ARABIC | Arabic |
| ART | Art |
| ARTHIST | Art History |
| ARTSCI | Arts and Sciences |
| ASL | American Sign Language |
| BAS | Bachelor of Applied Science |
| BASQUE | Basque |
| BASQ-STD | Basque Studies |
| BIOL | Biology |
| BOSNIAN | Bosnian |
| BOT | Botany (Biological Sciences) |
| BUSCOM | Business Communication (Marketing & Finance) |
| BUSSTAT | Business Statistics (Information Technology & Supply Chain Management) |
| CANSTD | Canadian Studies |
| CE | Civil Engineering |
| CHEM | Chemistry |
| CHINESE | Mandarin Chinese |
| CJ | Criminal Justice |
| CMGT | Construction Management |
| COMM | Communication |
| COUN | Counseling |
| CS | Computer Science |
| DISPUT | Dispute Resolution |
| ECE | Electrical & Computer Engineering |
| ECON | Economics |
| ED-CIFS | Curriculum, Instruction, & Foundational Studies |
| ED-ESP | Early and Special Education |
| ED-LLC | Literacy, Language and Culture |
| EDTECH | Educational Technology |
| ENGL | English |
| ENGR | Engineering Science |
| ENTREP | Entrepreneurial Management |
| ENVHLTH | Environmental Health |
| ENVSTD | Environmental Studies |
| FINAN | Finance |
| FORLNG | Foreign Language |
| FRENCH | French |
| GENBUS | General Business (Management) |
| GENDER | Gender Studies |
| GENSCI | General Science (Geosciences) |
| GEOG | Geography |
| GEOPH | Geophysics |
| GEOS | Geoscience |
| GERMAN | German |
| HIST | History |
| HLTHST | Health Science |
| HONORS | Honors |
| HRM | Human Resources Management |
| HUM | Humanities (English) |
| INTBUS | International Business |
| INTDIS | Interdisciplinary Studies |
| INTPRGM | International Student Programs |
| ISLE | Intensive Semester Learning Experience |
| ITM | Information Technology Management |
| JAPANESE | Japanese |
| KINES | Kinesiology |
| KIN-ACT | Kinesiology-Activities |
| KOREAN | Korean |
| LATIN | Latin |
| LEAD | Leadership Studies |
| LIBSCI | Library Science |
| LING | Linguistics (English) |
| MATH | Mathematics |
| MDS | Multidisciplinary Studies |
| ME | Mechanical Engineering |
| MGMT | Management |
| MILSCI | Military Science |
| MKTG | Marketing |
| MSE | Materials Science and Engineering |
| MUS | Music, General |
| MUS-APL | Music, Applied |
| MUS-ENS | Music, Ensemble |
| MUS-PRV | Music, Private Lessons |
| NATSTDEX | National Student Exchange |
| NONPROF | Nonprofit |
| NURS | Nursing |
| PHIL | Philosophy |
| PHYS | Physics |
| POLS | Political Science |
| PORTUGUESE | Portuguese |
| PR | Public Relations |
| PSYC | Psychology |
| RADSCI | Radiologic Sciences |
| REFUGEE | Refugee Services (Social Work) |
| RESPCARE | Respiratory Care |
| SCM | Supply Chain Management |
| SOC | Sociology |
| SOCWRK | Social Work |
| SPANISH | Spanish |
| STEM-ED | STEM Education |
| THEA | Theatre Arts |
| UF | University Foundations |
| VIP | Vertically Integrated Projects |
| ZOOL | Zoology (Biological Sciences) |

## How to Read a Typical Course Description

### Course Description Key

Each course at Boise State University 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 11.2 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., GEOPH 420 and GEOPH 575).

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 |
| (F,S) | fall and spring semester |
| (F/S) | fall semester, spring semester, or both |
| (F,SU) | fall semester and summer session only |
| (S,SU) | summer semester and summer session only |
| (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 foundational studies requirements) may be given in parentheses after the semester offered.

7) **Requisites** The list of requisites specifies any prerequisites and/or corequisites using the following abbreviations:

| | |
|---|---|
| PREREQ: | prerequisite (condition to be met before enrollment) |
| COREQ: | corequisite (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 corequisite is a laboratory course that must be taken during the same semester or term as a related science course.

1 2 3 4 5 6

**PHYS 111 GENERAL PHYSICS (3-3-4) (F,S,SU) (DLN).**
Mechanics, sound, heat, light, magnetism and electricity. This course satisfies the science requirement for the bachelor of arts and bachelor of science curricula and may be taken by forestry, pre-dental and pre-medical students. Recommended background: high school physics or PHYS 101. PREREQ: MATH 144 or MATH 147 or satisfactory placement score into MATH 170.

7

# Chapter 12 — Academic Programs and Courses

## Academic (Student Success Courses)

*Advising and Academic Enhancement*

1464 University Drive Phone: (208) 426-4049
E-mail: academic@boisestate.edu
http://aae.boisestate.edu/academic/

### Course Offerings

**See page 63 for a definition of the course-numbering system.**

**ACAD – Academic**

**Lower Division**

**ACAD 100 HIGH SCHOOL TO COLLEGE TRANSITIONS (1-2-1)(F/S).** An interactive approach is utilized to encourage students to develop positive relationships and effective behaviors for the transition to college. Topics may include adjusting to college, setting academic goals, managing time and keeping organized, learning and studying in college, preparing for and taking tests, and understanding college policies and processes.

**ACAD 101 ACADEMIC SUCCESS AT BOISE STATE (V-0-V)(F,S,SU).** Focuses on the development of skills, attitudes and behaviors associated with academic success at Boise State University. This course will also familiarize students with campus academic resources, support services, opportunities for involvement and service, and career planning. This course is designed to meet the needs of freshman and sophomore students, and is not recommended for students with upper-division standing.

**ACAD 102 STUDENT SUCCESS SEMINAR (2-0-2)(F/S).** Supports students in improving their cumulative GPAs, getting off probation and making satisfactory academic progress. Students develop effective academic skills and attitudes needed to achieve educational and personal goals. Focus on goal setting, academic skill building, and enhanced time management skills.

**ACAD 105 (ED-LLC 105) READING AND STUDY STRATEGIES (3-0-3) (F/S).** Topics include five learning tools, memory, rationale for strategies. Strategies include reading textbooks, selecting key information from various types of text, note taking, preparing for tests, test taking, and written reflections. May be taken for ACAD or ED-LLC credit, but not both. (Pass/Fail).

**ACAD 106 LIBRARY RESEARCH (0-2-1)(F/S).** Introduction to the library research process and basic tools a student needs to succeed in coursework at Boise State University and beyond. Gain proficiency locating, using and evaluating diverse information resources. Learn about plagiarism and citing sources. (Pass/Fail).

**ACAD 107 INTRODUCTION TO E-LEARNING (1-0-1)(F,S,SU).** Designed to help you acquire the 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).** Designed to assist students in knowing self and the world of work, identifying resources, understanding career planning, and developing a proposed implementation of career and life plans.

**ACAD 117 TRANSITIONS: SURVIVING AND THRIVING IN COLLEGE (3-0-3)(F/S).** Designed to meet the needs of students returning to the educational experience, focusing on the development of academic skills, life skills, attitudes and behaviors necessary for success in college through exploration of skills, campus resources and involvement opportunities. Students will also develop an academic plan.

**ACAD 120 (ED-LLC 120) COMPREHENSION OF TEXTBOOKS AND TEXT STRUCTURE (3-0-3)(F/S).** Emphasizes comprehension, vocabulary, and study strategies based on the organizational patterns found in college textbook chapters, informational essays, and news magazine articles. Direct applications of strategies to the reading materials in students' current university courses. May be taken for ACAD or ED-LLC credit, but not both.

## Department of Accountancy

*College of Business and Economics*

Micron Business and Economics Building, Room 3130 Phone: (208) 426-3461

*Chair and Associate Professor:* Troy Hyatt. *Professors:* Bahnson, Cowan, English, Koeppen, Lathen. *Associate Professors:* Filzen, Gooden, Novak. *Assistant Professors:* Baxter, Lee. *Lecturers:* Christensen, Fox, Hurley.

### Degrees Offered

- Bachelor of Business Administration in Accountancy
  - Internal Audit Option
- Accountancy Minor
- Internal Auditing Minor

### Department Statement

The undergraduate degree programs are designed to provide students 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 high quality, accessible educational services in accounting to serve the accounting profession, the business community, and the community at large.

### Objectives

To accomplish our mission we strive to fulfill three broad objectives:

1. To provide a rich learning environment that is accessible to all qualified students.
2. To encourage faculty to continuously acquire new skills and knowledge.
3. To provide service by interacting with the accounting profession, the business and academic communities, and the community at large.

Frequently, students take a professional examination during or immediately following their last semester. For undergraduate students, this includes examinations to gain designations as Certified Management Accountants (CMAs) and Certified Internal Auditors (CIAs). For graduate students, the list includes the Certified Public Accountant (CPA) examination. Students should anticipate 250-350 hours of intensive study for each examination.

### Admission Requirements

Students interested in pursuing a degree in the College of Business and Economics (COBE) must be admitted to the college. Admission to COBE is required before a student may enroll in most upper-division business and economics courses. See page 13 for exceptions to these requirements.

Admission to COBE is competitive and based on various academic criteria such as overall GPA, performance in gateway courses, and other business and economics courses. Meeting the criteria does not guarantee admission. Please see the COBE advising website: http://cobe.boisestate.edu/studentadvising/ to obtain specific information about the application process and application deadlines.

To be considered for admission, students must:

- Complete each of the following gateway courses with a grade of C- or better:
  - ACCT 205 Introduction to Financial Accounting
  - ACCT 206 Introduction to Managerial Accounting
  - BUSCOM 201 Business Communication
  - BUSSTAT 207 Statistical Techniques for Decision Making I
  - ECON 201 Principles of Macroeconomics
  - ECON 202 Principles of Microeconomics
  - GENBUS 101 Business for the New Generation
  - ITM 104 Operating Systems and Word Processing Topics
  - ITM 105 Spreadsheet Topics
  - MATH 160 Survey of Calculus

- Meet minimum cumulative GPA requirement of 2.5. A minimum cumulative GPA of 2.5 must be maintained in order to remain admitted to COBE.

## Degree Requirements

| Accountancy<br>Bachelor of Business Administration | |
|---|---|
| *Course Number and Title* | *Credits* |
| Foundational Studies Program requirements indicated in **bold.** See page 50 for details and lists of approved courses. | |
| **ENGL 101** Introduction to College Writing | 3 |
| **ENGL 102** Intro to College Writing and Research | 3 |
| **UF 100** Intellectual Foundations | 3 |
| **UF 200** Civic and Ethical Foundations | 3 |
| **DLM** MATH 160 Survey of Calculus or MATH 170 Calculus I | 4 |
| **DLN** Natural, Physical, & Applied Sciences course with lab | 4 |
| **DLN** Natural, Physical, and Applied Sciences course | 3-4 |
| **DLV** Visual and Performing Arts | 3 |
| **DLL** Literature and Humanities | 3-4 |
| **DLS** COMM 101 Fundamentals of Communication | 3 |
| **DLS** ECON 201 Principles of Macroeconomics | 3 |
| ACCT 205 Introduction to Financial Accounting | 3 |
| ACCT 206 Introduction to Managerial Accounting | 3 |
| ACCT 290 Mastering the Accounting Cycle | 1 |
| 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 |
| **CID** BUSCOM 201 Business Communication | 3 |
| BUSSTAT 207-208 Statistical Techniques for Decision Making I, II | 6 |
| ECON 202 Principles of Microeconomics | 3 |
| Economics course chosen from ECON 301, 303, 310, or 317 | 3 |
| FINAN 303 Principles of Finance | 3 |
| GENBUS 101 Business for the New Generation | 3 |
| GENBUS 304-305 Law For Accountants I, II | 6 |
| **FF** GENBUS 450 Business Policies | 3 |
| Successful completion of the COBE Computer Placement Exam for: Word Processing, Spreadsheet, & Database or<br>ITM 104 Operating Systems & Word Processing Topics and<br>ITM 105 Spreadsheet Topics and<br>ITM 106 Database Topics | 0-3 |
| MGMT 301 Leadership Skills | 3 |
| MKTG 301 Principles of Marketing | 3 |
| SCM 345 Principles of Operations Management | 3 |
| Electives to total 120 credits | 13-18 |
| *Total* | 120 |
| *Continued* | |

| *Accountancy continued* | |
|---|---|
| **Internal Audit Option** | |
| ACCT 450 Internal and Information Systems Audit | 3 |
| Three (9 credits minimum) of the following:<br>ACCT 493 Internship<br>FINAN 411 Capital Budgeting and Planning<br>ITM 305-305L Info Technology & Network Essentials & Lab<br>ITM 315 Database Systems<br>ITM 455 Information Security | 9-10 |
| Electives to total 120 credits | 0-6 |
| *Total* | 120 |
| These courses must be completed with a grade of C- or better. | |

A non-accountancy student 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 205 Introduction to Financial Accounting | 3 |
| ACCT 206 Introduction to Managerial Accounting | 3 |
| ACCT 290 Mastering the Accounting Cycle | 1 |
| ACCT 302 Survey of Federal Income Taxation | 3 |
| ACCT 304* Intermediate Accounting I | 3 |
| ACCT 314* Cost Accounting | 3 |
| Successful completion of the COBE Computer Placement Exam for: Word Processing, Spreadsheet, & Database or<br>ITM 104 Operating Systems & Word Processing Topics and<br>ITM 105 Spreadsheet Topics and<br>ITM 106 Database Topics | 0-3 |
| Upper-division accountancy courses | 6 |
| *Total* | 22-25 |
| *Require admission to COBE. | |

A non-accountancy student may earn a minor in internal auditing by satisfying the requirements listed below, in addition to the requirements of the student's major.

| Internal Auditing Minor | |
|---|---|
| *Course Number and Title* | *Credits* |
| ACCT 205 Introduction to Financial Accounting | 3 |
| ACCT 206 Introduction to Managerial Accounting | 3 |
| ACCT 290 Mastering the Accounting Cycle | 1 |
| ACCT 304* Intermediate Accounting I | 3 |
| ACCT 350* Accounting Information Systems | 3 |
| ACCT 405* Financial Statement Auditing | 3 |
| ACCT 450* Internal and Information Systems Audit | 3 |
| Successful completion of the COBE Computer Placement Exam for: Word Processing, Spreadsheet, & Database or<br>ITM 104 Operating Systems & Word Processing Topics and<br>ITM 105 Spreadsheet Topics and<br>ITM 106 Database Topics | 0-3 |
| Accountancy or Finance course chosen from:<br>ACCT 314* Cost Accounting<br>ACCT 414* Managerial Accounting<br>FINAN 411* Capital Budgeting and Planning | 3 |
| *Total* | 22-25 |
| *Require admission to COBE. | |

## Course Offerings

**See page 63 for a definition of the course-numbering system.**

**ACCT – Accountancy**

**Lower Division**

**ACCT 205 INTRODUCTION TO FINANCIAL ACCOUNTING (3-0-3) (F,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 104 and 105 or satisfactory completion of computer competency exam covering basic word processing and spreadsheet skills or an alternate instructor-approved course.

**ACCT 206 INTRODUCTION TO MANAGERIAL ACCOUNTING (3-0-3)(F,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 104 and 105 or satisfactory completion of computer competency exam covering basic word processing and spreadsheet skills.

**ACCT 290 MASTERING THE ACCOUNTING CYCLE (1-1-1)(F,S,SU).** Students will complete a comprehensive project providing hands-on experience with all of the procedural details involved in the accounting cycle. The project will include evaluating financial information, data entry in an accounting system and preparation of financial statements that are in conformity with GAAP. Accounting internal control concepts important to the reliability of any accounting system will also be taught. PREREQ: ACCT 205.

**Upper Division**

Upper-division courses in the Department of Accountancy (those with a course number 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; and to use a microcomputer for simple word processing and spreadsheet applications.

**ACCT 300 FINANCIAL REPORTING AND ANALYSIS (3-0-3)(F).** Examination of the conceptual accounting theory underlying financial statements including examining the choices between different acceptable accounting methods allowed under GAAP and the impact each of these methods has on the financial results reported in the financial statements. The course is focused on preparing finance majors to use financial statements in conducting financial statement analysis and decision making. PREREQ: Admission to COBE, ACCT 206 and ITM 104 and ITM 105 or satisfactory completion of computer competency exam covering basic word processing and spreadsheet skills.

**ACCT 302 SURVEY OF FEDERAL INCOME TAXATION (3-0-3)(F,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: ACCT 206.

**ACCT 304 INTERMEDIATE ACCOUNTING 1 (3-0-3)(F,S).** Study of financial reporting, including the effects of economic, c,legal, political,social and ethical influences on the formulation of generally accepted accounting principles. A comprehensive analysis of basic financial reporting, including the preparation of the statements of income and financial position, and in-depth study of current and noncurrent assets, current liabilities, and international financial reporting standards. Electronic spreadsheets are used as a tool in analyzing complex reporting problems. PREREQ: Admission to COBE, ACCT 206, ACCT 290, and ITM 104 and ITM 105 or satisfactory completion of computer competency exam covering basic word processing and spreadsheet skills.

**ACCT 306 INTERMEDIATE ACCOUNTING II (3-0-3)(F,S).** Continuation of ACCT 304. Study of contingencies, noncurrent liabilities, stockholders' equity, income taxes, pensions, stock based compensation, accounting changes and errors, statement of cash flows, and accounting for derivatives. PREREQ: Admission to COBE, ACCT 290, ACCT 304.

**ACCT 314 COST ACCOUNTING (3-0-3)(F,S).** Traditional cost accounting including topics such as standard costing, variance analysis, cost-volume-profit analysis, and budgeting. The role of the management accountant, including ethical responsibilities, is examined. Emphasis on strategic cost management and the use of information for decision-making. PREREQ: Admission to COBE, ACCT 206 and BUSSTAT 207, and ITM 104 and 105 or satisfactory completion of computer competency exam covering basic word processing and spreadsheet skills.

**ACCT 350 ACCOUNTING INFORMATION SYSTEMS (3-0-3)(F,S).** Elements, cycles and procedures of accounting information systems, systems documentation techniques, the data processing cycle, the systems development process, controlling accounting information systems, and the auditing of computer-based systems. Applied projects in database, flowcharting, and accounting software. PREREQ: Admission to COBE, ACCT 290, ACCT 304, BUSCOM 201 or ENGL 202, 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 410 ADVANCED ACCOUNTING (3-0-3)(F,S).** Topics include accounting for business combinations, including consolidated financial statements, governmental, and not-for-profit accounting. PREREQ: Admission to COBE, ACCT 306, ITM 104 and ITM 105 or satisfactory completion of computer competency exam covering basic word processing and spreadsheet skills.

**ACCT 414 MANAGERIAL ACCOUNTING (3-0-3)(F/S).** The development and use of cost information for strategic cost management is emphasized. The uses of accounting information for management planning, production, and control decisions are covered. Examples include operations and capital budgeting, computer applications, and an in-depth application of cost accounting concepts. Emphasis is placed on the understanding and use of current cost management techniques. May be taken as either ACCT 414 or ACCT 514, but not both. PREREQ: Admission to COBE, ACCT 314 and SCM 345.

**ACCT 450 INTERNAL AND INFORMATION SYSTEMS AUDIT (3-0-3) (S).** The role of the internal and IS audit function, the standards by which internal and IS auditors should conduct audits, the general risks faced by any entity and any information system, the procedures and skills needed to perform audits, and current issues facing the internal and IS audit professional are covered. May be taken as either ACCT 450 or ACCT 550, but not both. PREREQ: Admission to COBE, ACCT 350 and ACCT 405.

**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.

Addictions Studies Minor — see Department of Community and Environmental Health

Aging — see Interdisciplinary Studies in Aging

American Government and Public Policy — see Department of Political Science

# Department of Anthropology

*College of Arts and Sciences*

Hemingway Western Studies Center, Room 55 Phone: (208) 426-3023
E-mail: anthropology@boisestate.edu Fax: (208) 426-4329

*Chair and Professor:* John P. Ziker. *Professors:* Hill, Plew. *Lecturer:* House. *Assistant Professors:* Demps, Snopkowski, Yu.

## Degrees Offered

- Bachelor of Science in Anthropology
- Minor in Anthropology
- Minor in Native American 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. Anthropology majors have an opportunity to enjoy a distinctive and motivating educational experience.

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: http://sspa.boisestate.edu/anthropology/.

## Degree Requirements

| Anthropology<br>Bachelor of Science | |
|---|---|
| *Course Number and Title* | *Credits* |
| Foundational Studies Program requirements indicated in **bold**. See page 50 for details and lists of approved courses. | |
| **ENGL 101** Introduction to College Writing | 3 |
| **ENGL 102** Intro to College Writing and Research | 3 |
| **UF 100** Intellectual Foundations | 3 |
| **UF 200** Civic and Ethical Foundations | 3 |
| **DLM** Mathematics | 3-4 |
| **DLN** Natural, Physical, & Applied Sciences course with lab | 4 |
| **DLN** ANTH 103 Introduction to Archaeology or ANTH 105 Evolution and Human Behavior | 3 |
| **DLV** Visual and Performing Arts | 3 |
| **DLL** Literature and Humanities | 3-4 |
| **DLS** Social Sciences course in a first field | 3 |
| **DLS** Social Sciences course in a second field | 3 |
| Foreign language (one year) | 8 |
| ANTH 101 Biological Anthropology | 3 |
| ANTH 303 History and Theory in Anthropology | 3 |
| ANTH 306 Kinship and Social Organization | 3 |
| *Continued* | |

| *Anthropology continued* | |
|---|---|
| **CID** ANTH 314 Environmental Anthropology | 3 |
| Choose 15 credits of upper-division anthropology courses excluding ANTH 490, ANTH 493 and ANTH 494 | 15 |
| **FF** ANTH 492 Senior Practicum—Portfolio | 1 |
| MATH 254 Introduction to Statistics or POLS 298 Introduction to Political Inquiry or PSYC 295 Statistical Methods | 3 |
| Additional upper-division electives to total 40 credits See your advisor for recommended electives. | 15 |
| Electives to total 120 credits | 30-32 |
| *Total* | 120 |

| Anthropology Minor | |
|---|---|
| *Course Number and Title* | *Credits* |
| ANTH 101 Biological Anthropology | 3 |
| ANTH 103 Introduction to Archaeology or ANTH 105 Evolution and Human Behavior | 3 |
| ANTH 303 History and Theory in Anthropology | 3 |
| ANTH 306 Kinship and Social Organization | 3 |
| Upper-division anthropology courses | 9 |
| *Total* | 21 |

| Native American Studies Minor | |
|---|---|
| *Course Number and Title* | *Credits* |
| ANTH 102 Social-Cultural Anthropology | 3 |
| ANTH 103 Introduction to Archaeology | 3 |
| ANTH 306 Kinship and Social Organization | 3 |
| Choose 12 credits from the following courses:<br>ANTH 208 Introduction to World Prehistory<br>ANTH 307 Indians of North America<br>ANTH 312 Prehistory of North America<br>ANTH 320 Latin American Prehistory<br>HIST 341 The Indian in United States History<br>Other Native American content course from any discipline, with advisor approval | 12 |
| *Total* | 21 |

## Course Offerings

**See page 63 for a definition of the course-numbering system.**

**ANTH – Anthropology**

**Lower Division**

**ANTH 101 BIOLOGICAL ANTHROPOLOGY (3-1-3)(DLN).** Introduction to human evolution through the study of variation, genetics, adaptation, living primates, the fossil record, and the relationship between biology and behavior.

**ANTH 102 SOCIAL-CULTURAL ANTHROPOLOGY (3-0-3)(F,S,SU) (DLS).** A critical exploration of concepts and methods in cultural anthropology. Subsistence systems, technologies, social structures, warfare, and cosmologies in a variety of human societies.

**ANTH 103 INTRODUCTION TO ARCHAEOLOGY (3-0-3)(F/S)(DLN).** 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 105 EVOLUTION AND HUMAN BEHAVIOR (3-0-3)(DLN).** An introduction to the evolutionary study of human behavior. The evolution of reproductive and somatic behavior, epigenetic processes of group living.

**ANTH 208 INTRODUCTION TO WORLD PREHISTORY (3-0-3)(F/S).** Examines 2.5 million years of human prehistory using discoveries from

archaeology and human paleontology. Topics include: history and theory; human origins; the world of Neanderthals and Cro-Magnons; beginning of farming and settlements; and emergence of early civilizations. Major discoveries from Africa, Europe, Asia, North America and South America illustrate human adaptations to environmental change.

**ANTH 216 MAGIC, WITCHCRAFT AND RELIGION (3-0-3)(F/S)(DLS).** 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).** Investigation of scientific events in the development of the basic concepts, theory, and methods of contemporary anthropology. PREREQ: ANTH 101 or ANTH 102 or ANTH 103 or ANTH 105 or PERM/INST.

**ANTH 306 KINSHIP AND SOCIAL ORGANIZATION (3-0-3)(F/S).** Hominid kinship and social organization in comparative perspective. Residence, descent, developmental familiarity, dominance, pair bonding, intergroup pacification, kin terminology, and social networks. PREREQ: ANTH 101 or ANTH 102 or ANTH 103 or ANTH 105 or PERM/INST.

**ANTH 307 INDIANS OF 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 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)(CID).** 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 (or ENGL 112), ANTH 101 or ANTH 102 or ANTH 103 or ANTH 105 or Environmental Studies 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 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 101 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 101 or PERM/INST.

**ANTH 350 HUMAN BEHAVIORAL ECOLOGY (3-0-3)(F,S,SU).** Fundamental principles of evolutionary theory and their application to human behavior within ecological contexts. Surveys current understanding of human sexuality, parenting, kinship, cooperation, and foraging behavior. PREREQ: ANTH 101 or ANTH 105 or PERM/INST.

**ANTH 352 EVOLUTION OF THE HUMAN LIFECYCLE (3-0-3)(F,S,SU).** 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 101 or ANTH 105 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 101 or PERM/INST.

**ANTH 402 GEOARCHEOLOGY (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 QUANTITATIVE FIELD METHODS (3-0-3)(F/S).** An introduction to the techniques, design, and implementation of anthropological field research. Formulate, evaluate, and communicate conclusions and inferences from quantitative data. PREREQ: Upper division standing or PERM/INST.

**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 101 or ANTH 102 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 101, 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 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/S)(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 and ANTH 306 and senior standing.

**ANTH 495 SENIOR THESIS (0-6-3)(F/S).** Designed to provide the student an opportunity to write a formal research paper drawing on primary sources and appropriate secondary materials. 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 research paper will be read by two faculty members. Recommended for students planning graduate studies.

## Applied Mathematics—see Department of Mathematics

# Department of Art

*College of Arts and Sciences*

Liberal Arts Building, Room 252 Phone: (208) 426-1230
art.boisestate.edu

*Chair and Professor:* Lee Ann Turner. *Professors:* Bacon, Budde, Carman, Fox, Keys, McNeil, Neri, Smulovitz, Young. *Associate Professors:* Blakeslee, Dinkar, Earley, Elder, Erpelding, Fitterer, Francis, Peariso, Sadler, Scott. *Assistant Professors:* Lee, Walker, Wiley. *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 Visual Art
  - Art Metals Emphasis
  - Ceramics Emphasis
  - Drawing and Painting Emphasis
  - Interdisciplinary Art Studio Emphasis
  - Photography Emphasis
  - Printmaking Emphasis
  - Sculpture Emphasis
- Bachelor of Fine Arts in Art Education K-12, 6-12
- Bachelor of Fine Arts in Graphic Design
- Bachelor of Fine Arts in Illustration
- Minor in History of Art and Visual Culture
- Minor in Visual Art

## Admission Procedures

Students interested in pursuing a degree in Art must first apply for admission to the Art Department. Enrollment in all ART classes, beyond ART 100, is limited to admitted majors and minors. To pursue a major, minor, or endorsement in Art Education, Graphic Design, Illustration, or Visual Art, students need to submit an exemplary portfolio and written statement for faculty review. Students interested in pursuing the B.A. or minor in the History of Art and Visual Culture (ARTHIST) do not need to apply for admission. For complete instructions and deadlines for admission to the program, please see "Admission To Art" on the Art Department website at art.boisestate.edu.

## Degree Requirements

| Visual Art<br>Bachelor of Arts | |
|---|---|
| *Course Number and Title* | *Credits* |
| Foundational Studies Program requirements indicated in **bold**. See page 50 for details and lists of approved courses. | |
| **ENGL 101** Introduction to College Writing | 3 |
| **ENGL 102** Intro to College Writing and Research | 3 |
| **UF 100** Intellectual Foundations | 3 |
| **UF 200** Civic and Ethical Foundations | 3 |
| **DLM** Mathematics | 3-4 |
| **DLN** Natural, Physical, & Applied Sciences course with lab | 4 |
| **DLN** Natural, Physical, and Applied Sciences course | 3-4 |
| **DLV** ARTHIST 101 Survey of Western Art I | 3 |
| **DLL** Literature and Humanities | 3-4 |
| **DLS** Social Sciences course in a first field | 3 |
| **DLS** Social Sciences course in a second field | 3 |
| ART 107, 108 Art Foundations I and II | 6 |
| *Continued* | |

| *Visual Art, B.A. continued* | |
|---|---|
| ART 109 Foundation Drawing | 3 |
| **CID** ART 298 Seminar | 3 |
| **FF** ART 491 Senior Studio Seminar in Visual Arts | 3 |
| ARTHIST 102 Survey of Western Art II | 3 |
| Three 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 3-dimensional courses chosen from:<br>ART 221 Art Metals: Intro to Metalsmithing<br>ART 225, 226 Ceramics<br>ART 231 Beginning Sculpture<br>Two disciplines must be represented | 6 |
| Upper-division art history (ARTHIST) | 3 |
| Upper-division Art electives | 6 |
| Upper-division electives to total 40 credits | 28 |
| Electives to total 120 credits | 13-16 |
| *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 | |
|---|---|
| *Course Number and Title* | *Credits* |
| Foundational Studies Program requirements indicated in **bold**. See page 50 for details and lists of approved courses. | |
| **ENGL 101** Introduction to College Writing | 3 |
| **ENGL 102** Intro to College Writing and Research | 3 |
| **UF 100** Intellectual Foundations | 3 |
| **UF 200** Civic and Ethical Foundations | 3 |
| **DLM** Mathematics | 3-4 |
| **DLN** Natural, Physical, & Applied Sciences course with lab | 4 |
| **DLN** Natural, Physical, and Applied Sciences course | 3-4 |
| **DLV** ARTHIST 101 Survey of Western Art I | 3 |
| **DLL** Literature and Humanities | 3-4 |
| **DLS** Social Sciences course in a first field | 3 |
| **DLS** Social Sciences course in a second field | 3 |
| ART 107, 108 Art Foundations I and II | 6 |
| ART 109 Foundation Drawing | 3 |
| **CID** ART 298 Seminar | 3 |
| ART 490 BFA Exhibition | 1 |
| **FF** ART 491 Senior Studio Seminar in Visual Arts | 3 |
| ARTHIST 102 Survey of Western Art II | 3 |
| Upper-division ARTHIST<br>See your area of emphasis requirements for any specific course recommendations | 6 |
| Area of Emphasis: Students may emphasize Art Metals, Ceramics, Drawing and Painting, Interdisciplinary Art Studio, Photography, Printmaking, or Sculpture. Each area of emphasis has specific requirements listed below. | |
| *Continued* | |

| *Visual Art, B.F.A. continued* | |
|---|---|
| **Art Metals Emphasis** | |
| Three 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 |
| Three 3-dimensional (three disciplines must be represented) courses chosen from:<br>ART 221 Art Metals: Intro to Metalsmithing<br>ART 225, ART 226 Ceramics<br>ART 231 Beginning Sculpture | 9 |
| Three courses chosen from:<br>ART 303 Art Metals: Multiples<br>ART 304 Art Metals: Color<br>ART 306 Contemporary Ideas in Metalsmithing<br>ART 307 Contemporary Ideas in Art Metals | 9 |
| ART 419 Studio in Art Metals | 3 |
| ART or ARTHIST electives (11 credits must be upper-division) | 20 |
| Upper-division electives to total 40 credits | 0-7 |
| Electives to total 120 credits | 8-11 |
| *Total* | 120 |
| **Ceramics Emphasis** | |
| Three 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 |
| ART 221 Art Metals: Intro to Metalsmithing | 3 |
| ART 225 Ceramics | 3 |
| ART 226 Ceramics | 3 |
| ART 231 Beginning Sculpture | 3 |
| ART 325 Studio in Ceramics | 6 |
| ART 425 Studio in Ceramics | 6 |
| ART or ARTHIST electives (11 credits must be upper-division) | 17 |
| Upper-division electives to total 40 credits | 1-7 |
| Electives to total 120 credits | 7-10 |
| *Total* | 120 |
| **Drawing and Painting Emphasis** | |
| ART 209 Introduction to Printmaking | 3 |
| ART 212 Drawing I | 3 |
| ART 215 Painting I | 3 |
| ART 251 Introduction to Creative Photography | 3 |
| Two 3-dimensional courses (two disciplines must be represented) chosen from:<br>ART 221 Art Metals: Intro to 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 |
| *Continued* | |

| *Visual Art, B.F.A. continued* | |
|---|---|
| Course chosen from:<br>ARTHIST 302 History of 20th Century European Art<br>ARTHIST 371 History of 20th 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 | 7-10 |
| *Total* | 120 |
| **Interdisciplinary Art Studio Emphasis** | |
| ART 212 Drawing I | 3 |
| ART 231 Beginning Sculpture | 3 |
| Two 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 |
| One 3-dimensional course chosen from:<br>ART 221 Art Metals: Intro to Metalsmithing<br>ART 225, ART 226 Ceramics | 3 |
| ART 333 3D Digital Processes or<br>ART 338 Expanded Formats | 3 |
| Four upper-division studio courses from at least two disciplines | 12 |
| ART 373 Interdisciplinary Practice | 3 |
| ART 473 Studio in Interdisciplinary Practice | 6 |
| Course chosen from:<br>ARTHIST 302 History of 20th Century European Art<br>ARTHIST 371 History of 20th 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 | 7-10 |
| *Total* | 120 |
| **Photography Emphasis** | |
| Two 2-dimensional courses chosen from:<br>ART 209 Introduction to Printmaking<br>ART 212 Drawing I<br>ART 215 Painting I | 6 |
| Two 3-dimensional courses (two disciplines must be represented) chosen from:<br>ART 221 Art Metals: Intro to 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, Color Printing | 3 |
| ART 444 Advanced Photography (3 semesters) | 9 |
| ARTHIST 373 History of Photography | 3 |
| ART or ARTHIST electives (5 credits must be upper-division) | 14 |
| Upper-division electives to total 40 credits | 0-4 |
| Electives to total 120 credits | 8-11 |
| *Total* | 120 |
| *Continued* | |

| *Visual Art, B.F.A. continued* | |
|---|---|
| **Printmaking Emphasis** | |
| Two 2-dimensional courses chosen from:<br>ART 212 Drawing I<br>ART 215 Painting I<br>ART 251 Introduction to Creative Photography | 6 |
| Two 3-dimensional courses (two disciplines must be represented) chosen from:<br>ART 221 Art Metals: Intro to 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 | 9-12 |
| *Total* | 120 |
| **Sculpture Emphasis** | |
| Three 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 |
| ART 221 Art Metals: Intro to Metalsmithing | 3 |
| ART 225 or 226 Ceramics | 3 |
| ART 231 Beginning Sculpture | 3 |
| Four courses chosen from:<br>ART 331 Traditional Processes<br>ART 333 3D Digital Processes<br>ART 334 Assembled Form<br>ART 338 Expanded Formats<br>ART 339 Cast Form | 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 | 0-7 |
| Electives to total 120 credits | 8-11 |
| *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 B.F.A. in Art Education must first apply for admission to the Art 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 http://education.boisestate.edu. 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 Education, K-12 or 6-12 Bachelor of Fine Arts

| *Course Number and Title* | *Credits* |
|---|---|
| Foundational Studies Program requirements indicated in **bold**. See page 50 for details and lists of approved courses. | |
| **ENGL 101** Introduction to College Writing | 3 |
| **ENGL 102** Intro to College Writing and Research | 3 |
| **UF 100** Intellectual Foundations | 3 |
| **UF 200** Civic and Ethical Foundations | 3 |
| **DLM** Mathematics | 3-4 |
| **DLN** Natural, Physical, & Applied Sciences course with lab | 4 |
| **DLN** Natural, Physical, and Applied Sciences course | 3-4 |
| **DLV** ARTHIST 101 Survey of Western Art I | 3 |
| **DLL** Literature and Humanities | 3-4 |
| **DLS** ED-CIFS 201 Foundations of Education | 3 |
| **DLS** 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 |
| **CID** 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 | 1 |
| **FF** ART 491 Senior Studio Seminar in Visual Arts | 3 |
| ARTHIST 102 Survey of Western Art II | 3 |
| One course chosen from:<br>ART 221 Art Metals: Intro to 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 metals, ceramics, photography, printmaking, or sculpture must complete a minimum of 14 credits.<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 |

*Continued*

| *Art Education continued* | |
|---|---|
| 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. | |
| *Total* | 120-132 |

## Art Teaching Endorsement

| *Course Number and Title* | *Credits* |
|---|---|
| One art history | 3 |
| Two art foundations | 6 |
| Two drawing | 6 |
| One painting | 3 |
| One art metals, 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 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 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.
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

| *Course Number and Title* | *Credits* |
|---|---|
| Foundational Studies Program requirements indicated in **bold**. See page 50 for details and lists of approved courses. | |
| **ENGL 101** Introduction to College Writing | 3 |
| **ENGL 102** Intro to College Writing and Research | 3 |
| **UF 100** Intellectual Foundations | 3 |
| **UF 200** Civic and Ethical Foundations | 3 |
| **DLM** Mathematics | 3-4 |
| **DLN** Natural, Physical, & Applied Sciences course with lab | 4 |
| **DLN** Natural, Physical, and Applied Sciences course | 3-4 |
| **DLV** ARTHIST 101 Survey of Western Art I | 3 |
| **DLL** a 100-level or higher course in a foreign language | 3-4 |
| **DLS** Social Sciences course in a first field | 3 |
| **DLS** 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 |
| **CID** ART 298 Seminar | 3 |
| ART 341 Creative Photography or<br>ART 344 Creative Photography, Color Printing | 3 |
| ART 377, 388, 477, 488 Graphic Design | 12 |
| ARTHIST 102 Survey of Western Art II | 3 |
| 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, Color Printing<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 |
| 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 477 (repeat) Graphic Design V<br>ART 483 New Media Design<br>ART 488 (repeat) Graphic Design VI<br>ART 493 (up to 6 credits) Internship<br>MKTG 401 Advertising Agency Management I<br>MKTG 402 Advertising Agency Management II | 9 |
| **FF** ART 495 Capstone Review | 3 |
| Upper-division art history (ARTHIST) | 3 |
| Sculpture, ceramics, art metals | 3 |
| 100-level or higher course in foreign language in sequence with **DLL** course taken | 3-4 |
| Upper-division electives to total 40 credits | 0-4 |
| Electives to total 120 credits | 9-17 |
| *Total* | 120 |

You must earn a C- or better in all ART and ARTHIST courses. A minimum of 3.0 GPA must be maintained in all art courses.

| Illustration<br>Bachelor of Fine Arts | |
|---|---|
| *Course Number and Title* | *Credits* |
| Foundational Studies Program requirements indicated in **bold**. See page 50 for details and lists of approved courses. | |
| **ENGL 101** Introduction to College Writing | 3 |
| **ENGL 102** Intro to College Writing and Research | 3 |
| **UF 100** Intellectual Foundations | 3 |
| **UF 200** Civic and Ethical Foundations | 3 |
| **DLM** Mathematics | 3-4 |
| **DLN** Natural, Physical, & Applied Sciences course with lab | 4 |
| **DLN** Natural, Physical, and Applied Sciences course | 3-4 |
| **DLV** ARTHIST 101 Survey of Western Art I | 3 |
| **DLL** Literature and Humanities | 3-4 |
| **DLS** Social Sciences course in a first field | 3 |
| **DLS** 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 |
| **CID** 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, 362, 461, 462 Illustration | 12 |
| ART 465 Senior Project in Illustration | 3 |
| ART 490 BFA Exhibition | 1 |
| **FF** ART 491 Senior Studio Seminar in Visual Arts | 3 |
| ARTHIST 102 Survey of Western Art II | 3 |
| Sculpture, ceramics, or art metals | 3 |
| Upper-division ARTHIST electives | 6 |
| ART or ARTHIST electives (5 credits must be upper-division) | 14 |
| Upper-division electives to total 40 credits | 0-1 |
| Electives to total 120 credits | 8-11 |
| *Total* | 120 |

| History of Art and Visual Culture<br>Bachelor of Arts | |
|---|---|
| *Course Number and Title* | *Credits* |
| Foundational Studies Program requirements indicated in **bold**. See page 50 for details and lists of approved courses. | |
| **ENGL 101** Introduction to College Writing | 3 |
| **ENGL 102** Intro to College Writing and Research | 3 |
| **UF 100** Intellectual Foundations | 3 |
| **UF 200** Civic and Ethical Foundations | 3 |
| **DLM** Mathematics | 3-4 |
| *Continued* | |

| *History of Art and Visual Culture continued* | |
|---|---|
| **DLN** Natural, Physical, & Applied Sciences course with lab | 4 |
| **DLN** Natural, Physical, and Applied Sciences course | 3-4 |
| **DLV** ARTHIST 101 Survey of Western Art I | 3 |
| **DLL** a course in a foreign language | 3-4 |
| **DLS** Social Sciences course in a first field | 3 |
| **DLS** Social Sciences course in a second field | 3 |
| ART 107, 108 Art Foundations I and II | 6 |
| **CID** ART 298 Seminar | 3 |
| ARTHIST 102 Survey of Western Art II | 3 |
| ARTHIST 450 Art History Practicum | 3 |
| **FF** ARTHIST 452 Methods and Theory in Art History | 3 |
| ARTHIST 499 Art History Seminar | 3 |
| One 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 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 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 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<br>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, 102 History of Western Civilization | 6 |
| Additional History or Anthropology electives<br>(complementing regional or period emphasis) | 6 |
| Upper-division electives to total 40 credits | 1-19 |
| Electives to total 120 credits | 3-25 |
| *Total* | 120 |

| History of Art and Visual Culture Minor | |
|---|---|
| *Course Number and Title* | *Credits* |
| ARTHIST 101, 102 Survey of Western Art I and II | 6 |
| One 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 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 |
| *Continued* | |

| *History of Art and Visual Culture Minor continued* | |
|---|---|
| One 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 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<br>ARTHIST 499 Seminar | 3 |
| *Total* | 21 |

| Visual Art Minor | |
|---|---|
| *Course Number and Title* | *Credits* |
| ART 107 Art Foundations I | 3 |
| ART 109 Foundation Drawing | 3 |
| ART 215 Painting I | 3 |
| ARTHIST 101, 102 Survey of Western Art I and II | 6 |
| Ceramics, art metals, or sculpture | 3 |
| Upper-division art course | 3 |
| Art course | 3 |
| *Total* | 24 |

## Course Offerings

**See page 63 for a definition of the course-numbering system.**

**ART**

The Art 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, "taken again" for credit, not to raise a D or F grade.

**Lower Division**

**ART 100 INTRODUCTION TO ART (3-0-3)(F,S,SU)(DLV).** 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. PREREQ: Admission to Art, or History of Art and Visual Culture major.

**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. PREREQ: Admission to Art, or History of Art and Visual Culture major.

**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. PREREQ: Admission to Art.

**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: Admission to Art, 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: Admission to Art, 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: Admission to Art, ART 109 or PERM/INST.

**ART 221 ART METALS: INTRO TO METALSMITHING (0-6-3)(F,S).** Basic hand-tool knowledge, soldering, and fabrication of metalworking, adornment, and vessels. Introduction to historical and contemporary metalwork. PREREQ: Admission to Art or PERM/INST.

**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. PREREQ: Admission to Art or PERM/INST.

**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. PREREQ: Admission to Art or PERM/INST.

**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. PREREQ: ARTHIST 101 or ARTHIST 102. COREQ: Admission to Art, ART 108 or PERM/INST.

**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. PREREQ: Admission to Art.

**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: Admission to Art, 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: Admission to Art, 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: Admission to Art, ARTHIST 101, ARTHIST 102, ART 107, and ART 108.

**ART 298 SEMINAR (3-0-3)(F,S)(CID).** 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 (or ENGL 112), Admission to Art or History of Art and Visual Culture major, 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 Art and upper-division standing and 15 credits in ART or ARTHIST.

**ART 303 ART METALS: 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 Art and ART 221 or PERM/INST.

**ART 304 ART METALS: COLOR (0-6-3)(F/S).** Working in series, explore issues of color in metalworking. Stone setting, patination, torch enameling, and other color-related techniques. May be repeated once for credit. PREREQ: Admission to Art and 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: Admission to Art, ART 107, ART 108, and ARTHIST 101 or ARTHIST 102, or PERM/INST.

**ART 306 CONTEMPORARY IDEAS 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 Art and ART 221, or PERM/INST.

**ART 307 CONTEMPORARY IDEAS IN ART METALS (0-6-3)(F/S).** Advanced exploration of design issues and techniques related to conceptual problems. Content varies by term with a focus on individual processes or topics. May be repeated for credit. PREREQ: Admission to Art and 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 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 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 Art, ART 212. PRE/COREQ: ART 311.

**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 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. Model fee. PREREQ: Admission to 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 Art and upper-division standing and 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 Art, ART 225 or ART 226.

**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 ENGL or ART credit, but not both. PREREQ for ART 326: ART 108. PREREQ for ENGL 326: ENGL 102 (or ENGL 112).

**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 Art, ARTHIST 101, ARTHIST 102, ART 109 and ART 231.

**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: ARTHIST 101 or ARTHIST 102, ART 108.

**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 Art, ART 107, ART 108, ART 109, ART 231, ARTHIST 101, and ARTHIST 102.

**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: ARTHIST 101, ARTHIST 102, ART 107, ART 109, and ART 231.

**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 Art, ARTHIST 101, ARTHIST 102, and ART 231.

**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 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 Art, ART 251.

**ART 344 CREATIVE PHOTOGRAPHY, COLOR PRINTING (0-6-3) (F/S).** Advanced study of photographic techniques; emphasis on the creative approach to picture-taking and printing in color. Adjustable camera required. May be repeated for credit. PREREQ: Admission to Art, ART 251 or PERM/INST.

**ART 349 ALTERNATIVE PHOTOGRAPHIC PROCESSES (0-6-3)(F/S).** Investigation and synthesis of alternative photographic printing processes and computer technologies. PREREQ: Admission to 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 Art and upper-division standing and 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: Admission to Art, 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 Art, ART 361.

**ART 372 ART AND DESIGN STUDY PROGRAM IN JAPAN (1-3 credits) (SU).** A survey of various art and design disciplines of Japan that are an integral part of Japanese culture. May be repeated for credit. PREREQ: Admission to Art, Art 107 and PERM/INST.

**ART 373 INTERDISCIPLINARY PRACTICE (0-6-3)(F,S).** An integrated studio where relevant mediums and materials will are selected based on ideas. Studio work is 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: ART 212 and ART 231 or PERM/INST.

**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: Admission to Art, 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: Admission to Art, 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: Admission to Art, 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: Admission to Art, 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 Art.

**ART 409 STUDIO IN PRINTMAKING (0-6-3)(F,S).** Advanced printmaking techniques and media. May be repeated for credit. PREREQ: Admission to Art, ART 309.

**ART 413 STUDIO (0-6-3)(F,S).** Individual studio problems. May be repeated for credit. PREREQ: Admission to Art, ART 311 and ART 315.

**ART 419 STUDIO IN ART METALS (0-6-3)(F,S).** Individual problems in Art Metals. May be repeated for credit. PREREQ: Admission to Art, 9 credits from ART 303, ART 304, ART 306, and/or ART 307 or 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 twice for credit. PREREQ: Admission to Art, ART 325.

**ART 431 STUDIO IN SCULPTURE (0-6-3)(F/S).** Individual problems in sculpture. May be repeated for credit. PREREQ: Three of the following five courses: ART 331, ART 333, ART 334, 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 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 Art, 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 Art, ART 461.

**ART 465 SENIOR PROJECT IN ILLUSTRATION (0-6-3)(F,S).** Culminating original project for illustration majors, including a formal presentation or exhibition. May be repeated for credit. PREREQ: Admission to Art, 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: ART 298 and 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: Admission to Art, 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: Admission to Art, 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: Admission to Art, ART 477.

**ART 490 BFA EXHIBITION (1-0-1)(F,S).** Provides practical knowledge about museum 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. PREREQ: ART 298, ART 491, and senior standing. Art Education, Illustration, and BFA Visual Art candidates only. COREQ: 400-level studio art course.

**ART 491 SENIOR STUDIO SEMINAR IN VISUAL ARTS (3-0-3)(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: 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: Admission to Art, ART 298 and ART 477.

**ARTHIST – Art History**

**Lower Division**

**ARTHIST 101 SURVEY OF WESTERN ART I (3-0-3)(F,S,SU)(DLV).** 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 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)(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.

Athletic Training—see Department of Kinesiology

# Associate of Arts/Science

*College of Arts and Sciences*

E-mail: coas-info@boisestate.edu
Phone: (208) 426-1414
Fax: (208) 426-3006

## 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. Course work is to be selected from the Foundational Studies 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* |
| **ENGL 101** Introduction to College Writing | 3 |
| **ENGL 102** Intro to College Writing and Research | 3 |
| **UF 100** Intellectual Foundations | 3 |
| **UF 200** Civic and Ethical Foundations | 3 |
| **DLM** Mathematics | 3-4 |
| **DLN** Natural, Physical, & Applied Sciences course with lab | 4 |
| **DLN** Natural, Physical, and Applied Sciences course | 3-4 |
| **DLV** Visual and Performing Arts | 3 |
| **DLL** Literature and Humanities | 3-4 |
| **DLS** COMM 101 Fundamentals of Communication or **DLS** COMM 112 Reasoned Discourse | 3 |
| **DLS** Social Sciences course in a second field | 3 |
| Electives to total 64 credits | 27-30 |
| *Total* | 64 |
| This program complies with the Idaho Statewide Articulation Policy. Second degree-seeking students are not eligible to earn a general Associate of Arts Degree. Students earning the general A.A. degree are not eligible to earn the general A.S. degree. | |

## Course Offerings

**See page 63 for a definition of the course-numbering system.**

**ARTSCI – Arts and Sciences**

**Lower Division**

**ARTSCI 150 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.

**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.

# Bachelor of Applied Science

*College of Arts and Sciences*

1023 South Grant Avenue Phone: (208) 426-3185
E-mail: appliedscience@boisestate.edu
http://appliedscience.boisestate.edu

*Director:* Jon Schneider

*Advisor:* Valerie Marsh

## 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 foundational 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 Admission Office. 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* |
| Foundational Studies Program requirements indicated in **bold**. See page 50 for details and lists of approved courses. | |
| **ENGL 101** Introduction to College Writing | 3 |
| **ENGL 102** Intro to College Writing and Research | 3 |
| **CID** BAS 300 Communication in the Applied Sciences | 3 |
| *Continued* | |

| *Bachelor of Applied Science continued* | |
|---|---|
| **UF 100** Intellectual Foundations | 3 |
| **UF 200** Civic and Ethical Foundations | 3 |
| **FF** BAS 400 Capstone in Applied Sciences | 3 |
| **DLM** Mathematics | 3-4 |
| **DLN** Natural, Physical, & Applied Sciences course with lab | 4 |
| **DLN** Natural, Physical, and Applied Sciences course | 3-4 |
| **DLV** Visual and Performing Arts | 3 |
| **DLL** Literature and Humanities | 3-4 |
| **DLS** Social Sciences course in a first field | 3 |
| **DLS** Social Sciences course in a second field | 3 |
| Areas of Emphasis<br>Of the required 40 upper-division hours, a minimum of 15 credits must be in one area of emphasis or a minimum of 18 credits with 9 credits in each of two areas of emphasis. (Students must see their advisors for approved areas of emphasis.) | 15-18 |
| Technical Education credits | 40 |
| Upper-division courses to total 40 credits<br>(Credits for Internship 493, Conference or Workshop 494, Independent Study 496 and Seminar 498 are limited to a combined total of 9 credits.) | 16-19 |
| Electives to total 120 credits<br>Must be academic credits. Up to three credits may come from KIN-ACT courses. | 3-6 |
| *Total* | 120 |

## Course Offerings

**See page 63 for a definition of the course-numbering system.**

**BAS – Bachelor of Applied Science**

**BAS 300 COMMUNICATION IN THE APPLIED SCIENCES (3-0-3) (F/S)(CID).** Examines principles and skills to prepare and execute effective written communication, oral presentations, and group communication activities. Common communication methods and principles will be covered, with an emphasis on critical thinking related to the student's past learning and future professional goals. PREREQ: ENGL 102 (or ENGL 112), Admission to BAS degree and upper-division standing.

**BAS 400 CAPSTONE IN APPLIED SCIENCES (3-0-3)(F/S)(FF).** Analysis of a contemporary problem or issue that is of interest to the student and that occurs in student's chosen academic/professional area of expertise. Projects will demonstrate knowledge of applied science, the ability to interpret data and relevant literature, ethical considerations and responsibilities, effective communication, and the ability to use relevant techniques to solve or assess the problem or issue. PREREQ: BAS 300.

## Basque/Basque Studies Minor — see Department of World Languages

## Biochemistry — see Department of Chemistry and Biochemistry

# Department of Biological Sciences

*College of Arts and Sciences*

Science Building, Room 107
http://biology.boisestate.edu/
E-mail: Bioinfo@boisestate.edu
Phone: (208) 426-3262
Fax: (208) 426-1040

*Chair and Professor:* Peter Koetsier. *Professors:* Bechard, Belthoff, Hampikian, Jorcyk, Munger, Novak, Oxford, Robertson, Rohn, Serpe, Smith, Wingett. *Associate Professors:* Feris, Forbey, Heath, Mitchell, Tinker, White. *Assistant Professors:* Albig, Barber, de Graaff, Hayden, Morrison. *Lecturers:* Koob, Lonsdale, Urquhart.

## Degrees Offered

- Bachelor of Science in Biology
  - Botany Emphasis
  - Ecology Emphasis
  - Environmental Biology Emphasis
  - Human Biology Emphasis
  - Microbiology Emphasis
  - Molecular and Cell Biology Emphasis
  - Secondary Education Emphasis
  - Zoology Emphasis
- Minor in Biology
- Minor in Biological Science Teaching Endorsement
- Pre-Forestry and Pre-Wildlife Management

## Department Statement

For complete advising information, please visit http://biology.boisestate.edu/.

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 one of seven different subdisciplines: botany, ecology, environmental biology, human biology, microbiology, molecular and cell biology, and zoology.

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 M.S. and Ph.D. programs. Other students have begun working in their field immediately after completing their B.S. 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 B.S. 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 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 www.wildlife.org/certification/index.cfm). 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 www.biology.boisestate.edu, and 5) refer to the "degree flow chart" under the advising link on the department's website to see recommended order of required coursework.

## Degree Requirements

| Biology<br>Bachelor of Science | |
|---|---|
| *Course Number and Title* | *Credits* |
| Foundational Studies Program requirements indicated in **bold**. See page 50 for details and lists of approved courses. | |
| **ENGL 101** Introduction to College Writing | 3 |
| **ENGL 102** Intro to College Writing and Research | 3 |
| **UF 100** Intellectual Foundations | 3 |
| **UF 200** Civic and Ethical Foundations | 3 |
| **DLM** MATH 160 Survey of Calculus or MATH 170 Calculus I (MATH 170 is recommended for students planning to enter graduate or professional school and those in the Microbiology or Molecular Cell Biology emphases.) | 4 |
| **DLN** BIOL 191 General Biology I | 4 |
| **DLN** CHEM 111, 111L General Chemistry I with Lab | 4 |
| **DLV** Visual and Performing Arts | 3 |
| **DLL** Literature and Humanities | 3-4 |
| **DLS** ED-CIFS 201 Foundations of Education (Secondary Education Emphasis) or **DLS** Social Sciences course in a first field | 3 |
| **DLS** Social Sciences course in a second field | 3 |
| BIOL 192 General Biology II | 4 |
| BIOL 301 Cell Biology | 3 |
| **CID** BIOL 323 Ecology | 4 |
| BIOL 343 Genetics Lecture | 3 |
| BIOL 400 Organic Evolution | 3 |
| BIOL 488 Senior Outcomes Assessment | 0 |
| CHEM 112, 112L General Chemistry II with Lab | 4 |
| CHEM 301-302 Survey of Organic Chemistry & Lab or CHEM 307, 308-309, 310 Organic Chemistry I & II with Labs (CHEM 301-302 is suitable for most biology majors. Those interested in medical, dental, pharmacy, veterinary school and students pursuing the Microbiology or Molecular and Cell Biology emphases should take CHEM 307-310. Please consult your advisor.) | 5-10 |
| Two or more of these communication courses including at least one COMM course:<br>COMM 101 Fundamentals of Communication<br>COMM 112 Reasoned Discourse<br>COMM 231 Public Speaking<br>COMM 356 Communication in the Small Group<br>ENGL 201 Nonfiction Writing<br>ENGL 202 Technical Communication<br>(COMM 101, COMM 112, and ENGL 202 may be counted as fulfilling all or part of **DLS** requirements) | 6 |
| MATH 143-144 College Algebra & Analytic Trigonometry or MATH 147 Precalculus | 5 |
| MATH 254 Introduction to Statistics | 3 |
| PHYS 111-112 General Physics or PHYS 211, 211L-212, 212L Physics I & II with Calculus & Labs | 8-10 |
| *Continued* | |

| *Biology continued* | |
|---|---|
| In addition, complete either the following coursework to graduate with a B.S. in Biology (without an emphasis) or complete the courses listed under one of the emphases below to graduate with a B.S. in Biology with an emphasis. | |
| 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 General and Comparative Physiology | 4 |
| Morphology (one course)<br>BIOL 451 Developmental Biology<br>BOT 302 Plant Anatomy and Microtechnique<br>BOT 330 Mycology<br>BOT 441 Plant Developmental Biology<br>ZOOL 301 Comparative Vertebrate Anatomy<br>ZOOL 400 Vertebrate Histology | 4 |
| Upper-division BIOL, BOT, or ZOOL electives to total 42 biology credits* | 13 |
| Upper-division elective to total 40 credits | 0-1 |
| Electives to total 120 credits** | 6-15 |
| *Total* | 120 |
| **Botany Emphasis** | |
| BOT 305 Systematic Botany | 4 |
| **FF** BOT 401 Plant Physiology | 4 |
| Additional upper-division botany credits | 8 |
| Upper-division BIOL, BOT, or ZOOL electives to total 42 biology credits* | 5 |
| Upper-division elective to total 40 credits | 0-1 |
| Electives to total 120 credits** | 6-15 |
| *Total* | 120 |
| **Ecology Emphasis** | |
| Ecology (3 or more courses)<br>BIOL 409 Molecular Ecology<br>BIOL 415 Microbial Physiology<br>BIOL 422 Conservation Biology<br>BIOL 426 Insect Ecology<br>BIOL 427 Stream Ecology<br>BIOL 433 Behavioral Ecology<br>BOT 424 Plant Community Ecology<br>(or acceptable alternatives) | 10-12 |
| **FF** BOT 401 Plant Physiology or<br>**FF** ZOOL 409 General and Comparative Physiology | 4 |
| Taxonomy-intensive course<br>BIOL 412 General Parasitology<br>BOT 305 Systematic Botany<br>BOT 330 Mycology<br>ZOOL 305 Entomology<br>ZOOL 341 Ornithology<br>ZOOL 355 Vertebrate Natural History<br>ZOOL 421 Mammalogy<br>ZOOL 425 Aquatic Entomology | 3-4 |
| Upper-division BIOL, BOT, or ZOOL electives to total 42 biology credits* | 1-4 |
| Upper-division elective to total 40 credits | 0-1 |
| Electives to total 120 credits** | 3-18 |
| *Total* | 120 |
| *Continued* | |

| *Biology continued* | |
|---|---|
| **Environmental Biology Emphasis** | |
| BIOL 422 Conservation Biology | 3 |
| **FF** BOT 401 Plant Physiology or<br>**FF** ZOOL 409 General and Comparative Physiology | 4 |
| Ecology (two or more courses):<br>BIOL 409 Molecular Ecology<br>BIOL 415 Microbial Physiology<br>BIOL 426 Insect Ecology<br>BIOL 427 Stream Ecology<br>BOT 424 Plant Community Ecology | 8 |
| ENVSTD 121 Introduction to Environmental Studies | 3 |
| GEOS 101 Global Environmental Science | 4 |
| POLS 409 Environmental Politics | 3 |
| Upper-division BIOL, BOT, or ZOOL electives to total 42 biology credits* | 6 |
| One or more of the following courses for at least 4 credits: (Students should take more of these courses if feasible; these courses may not be counted in another major or minor.)<br>CE 320-321 Principles of Environmental Engineering & Lab<br>ECON 333 Natural Resource Economics<br>ENVHLTH 310 Water Supply & Water Quality Mgmt<br>ENVHLTH 417 Principles of Toxicology<br>ENVHLTH 480 Air Quality Management<br>GEOG 360 Intro to Geographical Information Systems<br>GEOG 361 Remote Sensing<br>GEOS 412 Hydrogeology<br>GEOS 451 Principles of Soil Science<br>POLS 403 Introduction to Public Administration<br>POLS 407 American Policy Process | 4 |
| Electives to total 120 credits** | 0-1 |
| *Total* | 120-127 |
| **Human Biology Emphasis** | |
| BIOL 205 Introductory Microbiology or<br>BIOL 303 General Microbiology<br>(Only BIOL 303 satisfies prerequisites for upper-division microbiology electives) | 4-5 |
| PSYC 101 General Psychology (counts as **DLS**) | 3 |
| **FF** ZOOL 401 Human Physiology | 4 |
| Morphology (one or more courses):<br>BIOL 451 Developmental Biology<br>ZOOL 301 Comparative Vertebrate Anatomy<br>ZOOL 400 Vertebrate Histology | 4 |
| Courses chosen from the following for a minimum of 8 credits:<br>BIOL 344 Molecular and Cell Biology Laboratory<br>BIOL 410 Pathogenic Bacteriology<br>BIOL 412 General Parasitology<br>BIOL 420 Immunology<br>BIOL 431 Pharmacology<br>BIOL 441 Molecular Biology of Cancer<br>BIOL 442 Molecular Neurobiology<br>BIOL 443 Advanced Developmental Biology<br>BIOL 451 Developmental Biology<br>ZOOL 301 Comparative Vertebrate Anatomy<br>ZOOL 400 Vertebrate Histology<br>ZOOL 403 Head and Neck Anatomy | 8 |
| *Continued* | |

| *Biology continued* | |
|---|---|
| Two or more of the following courses including at least one PSYC course:<br>BIOL 300 Biology of Aging<br>HLTHST 300 Pathophysiology<br>HLTHST 480 Epidemiology<br>PSYC 301 Abnormal Psychology<br>PSYC 331 The Psychology of Health<br>PSYC 335 Biological Bases of Behavior | 6-7 |
| Upper-division BIOL, BOT, or ZOOL electives to total 42 biology credits* | 0-1 |
| Electives to total 120 credits**<br>Students should consult their advisors for recommendations regarding electives.<br>Professional programs may require BIOL 227-228; CHEM 309, 310, 431, 432, 433; or others | 0-7 |
| *Total* | 120-123 |
| **Microbiology Emphasis** | |
| BIOL 303 General Microbiology | 5 |
| **FF** BIOL 415 Microbial Physiology | 4 |
| CHEM 431, 432 Biochemistry I and Lab | 5 |
| Two or more additional courses chosen from the following for a minimum of 8 credits:<br>BIOL 344 Molecular and Cell Biology Laboratory<br>BIOL 410 Pathogenic Bacteriology<br>BIOL 412 General Parasitology<br>BIOL 420 Immunology<br>BOT 330 Mycology | 8 |
| Upper-division BIOL, BOT, or ZOOL electives to total 42 biology credits* | 4 |
| Electives to total 120 credits**<br>Recommended: CHEM 433, HLTHST 480 | 2-10 |
| *Total* | 120 |
| **Molecular and Cell Biology Emphasis** | |
| BIOL 344 Molecular and Cell Biology Laboratory | 3 |
| 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 General and Comparative Physiology | 4 |
| BIOL 465 Advanced Topics in Molecular Biology Techniques | 1 |
| Additional courses chosen from the following:<br>BIOL 303 General Microbiology<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 443 Advanced Developmental Biology<br>BIOL 446 Bioinformatics<br>BIOL 451 Developmental Biology<br>BIOL 466 Advanced Topics in Molecular, Cellular, & Developmental Biology<br>BOT 441 Plant Developmental Biology<br>ZOOL 400 Vertebrate Histology | 14 |
| CHEM 431, 432, 433 Biochemistry I, II and Lab | 8 |
| Electives to total 120 credits**<br>Recommended: PHYS 307 | 0-6 |
| *Total* | 120-122 |
| *Continued* | |

| *Biology continued* | |
|---|---|
| **Secondary Education Emphasis** | |
| BIOL 205 Introductory Microbiology | 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 General and Comparative Physiology | 4 |
| Taxonomy-intensive course<br>BIOL 412 General Parasitology<br>BOT 305 Systematic Botany<br>BOT 330 Mycology<br>ZOOL 305 Entomology<br>ZOOL 341 Ornithology<br>ZOOL 355 Vertebrate Natural History<br>ZOOL 421 Mammalogy<br>ZOOL 425 Aquatic Entomology | 3-4 |
| Upper-division BIOL, BOT, or ZOOL electives to total 42 biology credits<br>(A maximum of 2 credits total in any combination of department approved workshops, internship, and independent study may be counted toward upper-division biology credit.) | 12-13 |
| 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 220 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* | 130-142 |
| **Zoology Emphasis** | |
| Physiology<br>**FF** ZOOL 401 Human Physiology or<br>**FF** ZOOL 409 General and Comparative Physiology | 4 |
| Morphology (one course):<br>BIOL 451 Developmental Biology<br>ZOOL 301 Comparative Vertebrate Anatomy<br>ZOOL 400 Vertebrate Histology | 4 |
| 8 or more additional credits of upper-division zoology | 8 |
| Upper-division BIOL, BOT, or ZOOL electives to total 42 biology credits* | 5 |
| Upper-division elective to total 40 credits | 0-1 |
| Electives to total 120 credits** | 6-15 |
| *Total* | 120 |

*Workshops may not be counted toward upper-division biology credit; A maximum of 4 credits total of any combination of internship and independent study credit may be counted toward upper-division biology credit.

**Can include workshops and excess independent study and internship credits up to University limits. For students planning to pursue professional school or enter certain graduate schools, the following are recommended: Physics, Calculus, and second semester Organic Chemistry or Biochemistry. Students are urged to determine the exact requirements of schools they wish to attend and meet with an advisor to discuss appropriate preparatory coursework.

All courses used toward the Biology major must have a grade of C- or better.

| Biology Minor | |
|---|---|
| *Course Number and Title* | *Credits* |
| BIOL 191-192 General Biology I and II | 8 |
| BIOL 205 Introductory Microbiology or<br>BIOL 303 General Microbiology | 4-5 |
| Upper-division biology courses | 10-11 |
| *Total* | 23 |

| Biological Science Teaching Endorsement Minor | |
|---|---|
| *Course Number and Title* | *Credits* |
| BIOL 191-192 General Biology I and II | 8 |
| BIOL 301 Cell Biology | 3 |
| BIOL 323 Ecology | 4 |
| BIOL 343 Genetics Lecture | 3 |
| BIOL 400 Organic Evolution | 3 |
| *Total* | 21 |
| 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 B.S. 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 www.wildlife.org/about/index.cfm for details). Moreover, a B.S. in Biology from Boise State University provides excellent preparation for master's and Ph.D. programs in wildlife and fisheries biology.

| Pre-Forestry and Pre-Wildlife Management | |
|---|---|
| *Course Number and Title* | *Credits* |
| ENGL 101-102 Intro to College Writing and Research | 6 |
| ENGL 202 Technical Communication | 3 |
| COMM 101 Fundamentals of Communication | 3 |
| ECON 202 Principles of Microeconomics | 3 |
| BIOL 191-192 General Biology I and II | 8 |
| BIOL 323 Ecology | 4 |
| CHEM 101, 101L-102, 102L Essentials of Chemistry I & II w/labs | 8 |
| ITM 104 Operating Systems & Word Processing Topics and<br>ITM 105 Spreadsheet Topics and<br>ITM 106 Database Topics | 3 |
| MATH 160 Survey of Calculus or MATH 170 Calculus I | 4 |
| MATH 254 Introduction to Statistics | 3 |
| *Total* | 45 |
| 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 343, 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

**See page 63 for a definition of the course-numbering system.**

**BIOL – Biology**

**Lower Division**

**BIOL 100 CONCEPTS OF BIOLOGY (3-2-4)(F,S,SU)(DLN).** 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/ENL, and Special Education majors only.

**BIOL 107 INTRODUCTION TO HUMAN BIOLOGY (3-2-4)(F/S/SU) (DLN).** 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 GENERAL BIOLOGY I (3-3-4)(F,S)(DLN).** Designed for biology and health science majors. The basic characteristics of living systems including the chemical and physical structure of cells, genetics, development, evolution, and ecology. Recommended: Solid preparation in high school biology and chemistry. PREREQ: MATH 143 or MATH 147 or appropriate placement score.

**BIOL 192 GENERAL BIOLOGY II (3-3-4)(F,S).** Organismal biology in an evolutionary context, including biodiversity, structure and function, reproduction, physiology, and morphology of viruses, bacteria, 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 (3-3-4)(F,S,SU) (DLN).** The first in a two-semester sequence for students whose career objectives require a thorough study of human anatomy and physiology. BIOL 107 cannot be substituted for either semester of this sequence. One semester of this sequence cannot be substituted for BIOL 107. 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 CHEM 101 is recommended.

**BIOL 228 HUMAN ANATOMY AND PHYSIOLOGY (3-3-4)(F,S,SU).** A two-semester sequence for students whose career objectives require a thorough study of human anatomy and physiology. BIOL 107 cannot be substituted for either semester of this sequence. One semester of this sequence cannot be substituted for BIOL 107. Prior or concurrent enrollment in CHEM 101 is recommended.

**BIOL 246 INTRODUCTION TO BIOINFORMATICS (2-0-2)(F).** Concepts and tools of bioinformatics and genome sciences. Basic aspects of

molecular biology and application of computer-assisted bioinformatics tools. DNA and protein sequences from public databases used to predict protein structure, identify evolutionary relationships, and investigate mechanisms of disease. PREREQ: BIOL 191 or BIOL 100, and one of: CHEM 111, CS 115, 117, 119, or MATH 147.

**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 300 BIOLOGY OF AGING (3-0-3)(F)(Even years).** Focuses on biological aspects of aging and the major types of anatomical and physiological changes which may impair normal functioning during the aging process. This course is not appropriate for biology majors and may not be counted toward major requirements. PREREQ: Upper-division standing and BIOL 100 or BIOL 107 or BIOL 227-228.

**BIOL 301 CELL BIOLOGY (3-0-3).** Structure and function of prokaryotic and eukaryotic cells. PREREQ: BIOL 191-192 and CHEM 112, or BIOL 191 and either CHEM 301 or 307, or BIOL 227-228 and either CHEM 301 or 307.

**BIOL 303 GENERAL MICROBIOLOGY (3-6-5)(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 301-302 or CHEM 307-308.

**BIOL 323 ECOLOGY (3-3-4)(F,S)(CID).** 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 (or ENGL 112), BIOL 191-192 and MATH 254.

**BIOL 343 GENETICS LECTURE (3-0-3)(F,S,SU).** A study of the principles of genetics as they relate to living organisms. PREREQ: BIOL 301. PRE/COREQ: CHEM 301 or 307.

**BIOL 344 MOLECULAR AND CELL BIOLOGY LABORATORY (0-8-3)(F).** Modern molecular and cellular techniques including cloning, computer analysis of DNA sequences, karyotyping, DNA amplification, and use of Southern and Western blots for transgene detection and expression analysis. Some laboratory time will be arranged. PRE/COREQ: BIOL 343 and PERM/INST.

**BIOL 400 ORGANIC EVOLUTION (3-0-3).** Philosophical basis of evolutionary theory. Detailed examination of genetic variation, mechanisms of evolutionary change, adaptation, speciation, and phylogeny. Genetics recommended. PREREQ: BIOL 323 and BIOL 343 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 an hypothesis-testing approach. Appropriateness of particular molecular techniques to specific research questions. PREREQ: BIOL 323 and BIOL 343.

**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 301 and BIOL 303.

**BIOL 412 GENERAL PARASITOLOGY (2-3-3)(Offered 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 301 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 301-302 or CHEM 307-308, or PERM/INST.

**BIOL 420 IMMUNOLOGY (3-0-3)(S).** Principles of immunology, host defense mechanisms, the immune response, immune disorders, serology, and related topics. PREREQ: BIOL 301.

**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 323.

**BIOL 425 BASIC AND APPLIED DATA ANALYSIS IN BIOLOGY (2-0-2)(F/S).** Univariate statistics using computer software (JMP, SAS Institute, Inc.) with applications to biology, natural resources, health care, education, industry, and other professional disciplines. PREREQ: 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 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 323 or PERM/INST.

**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 BIOL 191-192, and BIOL 301.

**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 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 323.

**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 301 or PERM/INST.

**BIOL 441 MOLECULAR BIOLOGY OF CANCER (3-0-3)(F).** 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 301, BIOL 343.

**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 301 and PHYS 112, or PERM/INST.

**BIOL 443 ADVANCED DEVELOPMENTAL BIOLOGY (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 451 recommended.

**BIOL 444 VACCINOLOGY (3-0-3)(F)(Odd 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 301 or PERM/INST.

**BIOL 445 HUMAN GENETICS (3-0-3)(S)(Offered intermittently).** Discussion of important aspects of human heredity. Topics include the reproductive system, single gene disorders, chromosome abnormalities, hemoglobinopathies, inborn errors of metabolism, somatic cell and molecular genetics, immunogenetics, gene screening, and human variation and evolution. PREREQ: BIOL 343 or PERM/INST.

**BIOL 446 BIOINFORMATICS (2-3-3)(S).** 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 301 or CHEM 431 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 343 or PERM/INST.

**BIOL 448 PERL FOR BIOINFORMATICS APPLICATIONS (3-0-3)(F/S).** The PERL programming language is used to introduce skills and concepts to process and interpret data from high-throughput technologies in the biological sciences. Key bioinformatics concepts are reinforced through lectures, computer demonstrations, weekly readings, and programming exercises from biological sequence analysis and real-world problems in proteomics and genetics. PREREQ: BIOL 446 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 343 and MATH 254, or PERM/INST.

**BIOL 451 DEVELOPMENTAL BIOLOGY (3-3-4)(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. Laboratory studies of sea urchin, frog, chick, and pig development. PREREQ: BIOL 191-192 and BIOL 301.

**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 323 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 343 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 343 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 301, BIOL 343 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 ENGR 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 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 191-192 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 191-192 and BIOL 301.

**BOT 424 PLANT COMMUNITY ECOLOGY (3-6-5)(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 323 and 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 301.

**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 301.

**ZOOL – Zoology**

**Upper Division**

**ZOOL 301 COMPARATIVE VERTEBRATE ANATOMY (2-6-4)(F).** The evolutionary development of vertebrate anatomy, fishes through mammals. Dissection of the shark, salamander, and cat plus demonstrations of other vertebrate types. PREREQ: BIOL 191-192 or PERM/INST.

**ZOOL 305 ENTOMOLOGY (2-3-3)(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 (2-3-3)(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 191-192 and PERM/INST.

**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 301 or ZOOL 301.

**ZOOL 401 HUMAN PHYSIOLOGY (3-3-4)(S)(FF).** Functional aspects of human tissues and organ systems with emphasis on regulatory and homeostatic mechanisms. PREREQ: BIOL 301 or PERM/INST.

**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 301 or PERM/INST.

**ZOOL 403 (KINES 403) HEAD AND NECK ANATOMY (2-2-3)(F,S).** Use of human cadavers to study prosections 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 GENERAL AND COMPARATIVE PHYSIOLOGY (3-3-4)(F)(FF).** Physiological principles common to all forms of animal life are discussed. Physiological adaptations required to live in a variety of environments are presented. PREREQ: BIOL 301 and BIOL 323.

**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 323 or an upper-division zoology course.

**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 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 323 or PERM/INST.

## Biomechanics Emphasis, Exercise Science, — see Department of Kinesiology

# Biomedical Engineering Minor

*College of Arts and Sciences/College of Engineering*

Engineering Building, Room 201C Phone: (208) 426-5653
E-mail: MSabick@boisestate.edu

*Coordinator:* Trevor Lujan. *Advisors-Biology:* Jorcyk, Oxford, Rohn, Serpe, Smith, Tinker, Wingett, Yu. *Chemistry:* Charlier, Cornell, Schimpf, Shadle, Warner. *Engineering:* Barney Smith, Butt, Callahan, Frary, Gardner, Guarino, Hughes, Knowlton, Lujan, Moll, Mullner, Tennyson. *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 General Biology I | 4 |
| BIOL/ME/MSE 477 Biomaterials | 3 |
| ENGR 210 Engineering Statics* | 3 |
| ME 112 Introduction to Biomedical Engineering | 1 |
| ME 356 Introduction to Solid Biomechanics | 3 |
| One of the following science courses:<br>BIOL 227 Human Anatomy and Physiology<br>CHEM 301-302 Survey of Organic Chemistry & Lab<br>CHEM 307, 308 Organic Chemistry I and Lab | 4-5 |
| One of the following engineering courses:<br>ENGR 245 Introduction to Materials Science and Engineering<br>ENGR 220 Engineering Dynamics | 3 |
| One of the following electives:<br>BIOL 192 General Biology II<br>BIOL 227-228 Human Anatomy and Physiology<br>BIOL 301 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, 271 Applied Anatomy and Lab<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 |
| *Total* | 24-27 |
| *NOTE: ENGR 210 requires MATH 170 and PHYS 211 as prerequisites. | |

Botany — see Department of Biological Sciences

# Business Minor

*College of Business and Economics*

Micron Business & Economics Building Phone: (208) 426-3859
http://cobe.boisestate.edu
E-mail: stuserv@boisestate.edu

## Degree Offered

- Minor in Business

## Program Statement

Students seeking a business minor must register with the Student Services Center in the College of Business and Economics. A student who is not pursuing a Bachelor of Business Administration degree at Boise State may earn a business minor by satisfying the requirements listed below, in addition to requirements of the student's major.

Students who want to take upper-division business courses will need to apply to the College of Business and Economics. Students who do not want to apply can still complete the business minor by choosing from the following seven "open" courses listed here with requisites:

- ACCT 302 Survey of Federal Income Taxation (ACCT 206)
- ECON 322 Urban Economics (ECON 201, ECON 202)
- ECON 333 Natural Resource Economics (ECON 202)
- HRM 305 Human Resource Management (Junior standing)
- ITM 310 Business Intelligence (BUSCOM 201 or ENGL 202)
- MGMT 301 Leadership Skills (Junior standing, BUSCOM 201 or ENGL 202)
- MKTG 301 Principles of Marketing (BUSCOM 201 or ENGL 202)

Pre-requisites must still be met before enrolling in these "open" courses.

## Program Requirements

| Business Minor | |
|---|---|
| *Course Number and Title* | *Credits* |
| ACCT 205 Introduction to Financial Accounting | 3 |
| ACCT 206 Introduction to Managerial Accounting | 3 |
| BUSSTAT 207 Statistical Techniques for Decision Making I<br>(Upon approval through the College of Business and Economics Student Services Center, you may substitute a statistical techniques class required in your major.) | 3 |
| ECON 201 Principles of Macroeconomics | 3 |
| ECON 202 Principles of Microeconomics | 3 |
| GENBUS 202 The Legal Environment of Business | 3 |
| Successful completion of the COBE Computer Placement Exam for: Word Processing and Spreadsheets, or<br>ITM 104 Operating Systems & Word Processing Topics and<br>ITM 105 Spreadsheet Topics | 0-2 |
| Upper-division business courses<br>At least two subject areas of business must be represented. | 12 |
| *Total* | 30-32 |
| Students must complete all courses with a grade of C- or better. | |

Business Communication — see Department of Marketing and Finance

Business Economics — see Department of Economics

Business, General — see Department of Management

# Canadian Studies Minor

*School of Public Service*

Environmental Research Building 5145 Phone: (208) 426-5804
http://sspa.boisestate.edu/canadianstudies/ Fax: (208) 426-4370
E-mail: lorihausegger@boisestate.edu

*Codirectors:* Ross Burkhart and Lori Hausegger

## Degree Offered

- Minor in Canadian Studies

## Program Statement

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.

## Program Requirements

| Canadian Studies Minor | |
|---|---|
| *Course Number and Title* | *Credits* |
| CANSTD 301 Investigating Canada: A Preliminary Survey | 3 |
| CANSTD 302 Controversial Issues in Contemporary Canada | 3 |
| Interdisciplinary courses chosen from:<br>ANTH 307 Indians of 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>FRENCH 101 Elementary French I<br>FRENCH 485 The Francophone World Today<br>POLS 424 Canadian Politics | 12 |
| *Total* | 18 |

## Course Offerings

**See page 63 for a definition of the course-numbering system.**

**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. These include but are not limited to relations with the United States, Quebec sovereignty, immigration and multiculturalism, same-sex marriage, marijuana use and abortion policy.

# Department of Chemistry and Biochemistry

*College of Arts and Sciences*

Science Building, Room 153/154 Phone: (208) 426-3000
http://chemistry.boisestate.edu Fax: (208) 426-1311 or (208) 426-3027
E-mail: chemistry@boisestate.edu

*Chair and Associate Professor:* Brad Brammel. *Professors:* LeMaster, McDougal, Russell, Shadle. *Associate Professors:* Brown, Charlier, Cornell, Lee, Warner. *Assistant Professors:* Ausman, Callahan, Nagarajan. *Associate Research Professor:* Dumais. *Lecturers:* Force, LeMaster, Mass, Puvanendran, 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.

## Degree Requirements

| Chemistry<br>Bachelor of Science | |
|---|---|
| *Course Number and Title* | *Credits* |
| Foundational Studies Program requirements indicated in **bold**. See page 50 for details and lists of approved courses. | |
| **ENGL 101** Introduction to College Writing | 3 |
| **ENGL 102** Intro to College Writing and Research | 3 |
| **UF 100** Intellectual Foundations | 3 |
| **UF 200** Civic and Ethical Foundations | 3 |
| **DLM** MATH 170 Calculus I | 4 |
| **DLN** CHEM 111, 111L General Chemistry I with Lab | 4 |
| **DLN** PHYS 211, 211L Physics I with Calculus & Lab | 5 |
| **DLV** Visual and Performing Arts | 3 |
| **DLL** Literature and Humanities | 3-4 |
| **DLS** CJ 103 Intro to Law & Justice (Forensics Emphasis) or<br>**DLS** ED-CIFS 201 Foundations of Education (Secondary Education Emphasis) or<br>**DLS** Social Sciences course in a first field | 3 |
| **DLS** 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 |
| **CID** CHEM 323 Advanced Synthesis Laboratory | 3 |
| CHEM 324 Physical Chemistry Laboratory | 2 |
| CHEM 495 Directed Research in Chemistry | 2 |
| **FF** CHEM 498 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 of the five emphases below | |
| **ACS Certified Biochemistry Emphasis** | |
| BIOL 191 General Biology I | 4 |
| BIOL 301 Cell Biology | 3 |
| BIOL 343 Genetics Lecture | 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 | 11-12 |
| *Total* | 120 |
| **ACS Certified Professional Emphasis** | |
| CHEM 401 Advanced Inorganic Chemistry | 3 |
| CHEM 411 Analytical Chemistry II | 3 |
| CHEM 412 Analytical Chemistry Laboratory II | 2 |
| CHEM 431 Biochemistry I | 3 |
| *Continued* | |

| *Chemistry continued* | |
|---|---|
| One 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 | 17-22 |
| *Total* | 120 |
| **Biochemistry Emphasis** | |
| BIOL 191 General Biology I | 4 |
| BIOL 301 Cell Biology | 3 |
| BIOL 343 Genetics Lecture | 3 |
| CHEM 431, 432, 433 Biochemistry I, II and Lab | 8 |
| One 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 | 11-15 |
| *Total* | 120 |
| **Forensics Emphasis** | |
| BIOL 191 General Biology I | 4 |
| BIOL 301 Cell Biology | 3 |
| BIOL 343 Genetics Lecture | 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 | 8-9 |
| *Total* | 120 |
| **Secondary Education Emphasis** | |
| 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 Mathematics & Science | 3 |
| STEM-ED 220 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 |
| Electives to total 120 credits | 1-2 |
| *Total* | 120 |
| Recommended electives are foreign language, upper-division mathematics, upper-division chemistry, upper-division physics, advanced topics in chemistry, and life science courses. | |

| Chemistry Minor | |
|---|---|
| *Course Number and Title* | *Credits* |
| CHEM 111, 111L-112, 112L General Chemistry I & II & Labs | 8 |
| CHEM 211, 212 Analytical Chemistry I & Lab | 5 |
| CHEM 307, 308-309 Organic Chemistry I & II & Lab | 8 |
| *Total* | 21 |

| Chemistry Teaching Endorsement Minor | |
|---|---|
| *Course Number and Title* | *Credits* |
| CHEM 111, 111L-112, 112L General Chemistry I & II & Labs | 8 |
| CHEM 211, 212 Analytical Chemistry I & Lab | 5 |
| CHEM 307, 308-309 Organic Chemistry I & II & Lab | 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

**See page 63 for a definition of the course-numbering system.**

**CHEM – Chemistry**

**Lower Division**

**CHEM 099 PREPARATION FOR CHEMISTRY (2-0-0)(F,S,SU).** Preparation course for students who intend to take CHEM 111 and who have not taken a prior chemistry course in high school. Introduction to basic chemistry concepts with emphasis on problem solving. PREREQ: MATH 25 or satisfactory placement score.

**CHEM 100 CONCEPTS OF CHEMISTRY (3-3-4)(F,S,SU)(DLN).** 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 ESSENTIALS OF CHEMISTRY I (3-0-3)(F,S,SU)(DLN).** 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 25 or satisfactory placement score. COREQ: CHEM 101L.

**CHEM 101L ESSENTIALS OF CHEMISTRY I LABORATORY (0-3-1)(F,S,SU)(DLN).** Lab to accompany CHEM 101. COREQ: CHEM 101.

**CHEM 102 ESSENTIALS OF CHEMISTRY II (3-0-3)(S).** Continuation of CHEM 101 to include basic concepts of organic and biochemistry. PREREQ: CHEM 101. COREQ: CHEM 102L.

**CHEM 102L ESSENTIALS OF CHEMISTRY II LABORATORY (0-3-1)(S).** Lab to accompany CHEM 102. COREQ: CHEM 102.

**CHEM 111 GENERAL CHEMISTRY I (3-0-3)(F,S,SU)(DLN).** 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 99). PREREQ: MATH 143 or MATH 147 or successful completion of the CHEM 111 Math exam. COREQ: CHEM 111L.

**CHEM 111L GENERAL CHEMISTRY I LABORATORY (0-3-1)(F,S,SU)(DLN).** 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: 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).** 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 MATH 147 or equivalent.

**CHEM 212 ANALYTICAL CHEMISTRY I LABORATORY (0-5-2)(F).** 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)(Offered 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)(Offered 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)(F,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 302.

**CHEM 302 SURVEY OF ORGANIC CHEMISTRY LABORATORY (1-3-2)(F,S).** Basic organic laboratory techniques, simple organic syntheses, and an introduction to spectroscopic techniques. One three-hour laboratory and one hour of recitation per week. COREQ: CHEM 301.

**CHEM 307 ORGANIC CHEMISTRY I (3-0-3)(F).** 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).** Lab to accompany 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 307.

**CHEM 309 ORGANIC CHEMISTRY II (3-0-3)(S).** A continuation of CHEM 307, covering additional functional groups and advanced topics in organic chemistry. PREREQ: CHEM 307. PRE/COREQ: CHEM 310.

**CHEM 310 ORGANIC CHEMISTRY II LABORATORY (1-3-2)(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. PRE/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)(CID).** 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 (or ENGL 112), 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)(Offered 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 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 and CHEM 321.

**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. PRE/COREQ: CHEM 322.

**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.

## Chinese/Chinese Studies Minor — see Department of World Languages

## Chiropractic, Pre-Professional Program — see Department of Community and Environmental Health

# Department of Civil Engineering

*College of Engineering*

Environmental Research Building, Room 1134 Phone: (208) 426-3743
http://coen.boisestate.edu/ce FAX: (208) 426-2351

*Chair and Associate Professor:* Mandar Khanal. *Associate Professors:* Farid, Hamilton, Miller, Murgel. *Assistant Professors:* Chittoori, Hernandez, Lu, Mishra.

## 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 departmental policy CE09-005 found on the departmental website.

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 http://idoteach.boisestate.edu. Students must meet and maintain all knowledge, skill, and disposition requirements to remain in the program.

## 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. Factors considered include overall grade-point average, performance in selected lower-division courses and a reflective statement of why you wish to be a civil engineer. Upper-division status is the only a prerequisite for CE 320, CE 352, CE 360, and CE 370.

To gain upper-division status you must have:

- completed 45 semester credits
- an overall GPA of at least 2.50
- passed the following courses with an average of 2.70 or better
  - CE 280 Civil Engineering Case Studies
  - CE 282 Engineering Practice
  - CHEM 112 General Chemistry II
  - CE/ENGR/ME 350 Engineering Mechanics of Materials
  - MATH 275 Multivariable and Vector Calculus
  - MATH 333 Differential Equations with Matrix Theory
- filed an application letter consisting of two to three paragraphs expressing why you wish to take upper-division courses
- included a copy of your Boise State transcript (either unofficial or official) with the application

You may apply in the semester you are finishing the above requirements. If you do, your application will be reviewed at the end of that semester.

## Program Educational Objectives

Graduates of the Civil Engineering program will be expected to:

1. Use their technical knowledge and communication skills to evaluate and solve problems in a wide variety of civil engineering applications.
2. Demonstrate the highest standards of professional integrity and ethical responsibility for public health and safety.
3. Work with the complex interactions of a variety of contemporary socio-economic issues.
4. Continue their education through use of their developed research and study skills or through formal continuing education opportunities.

## 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, and environmental, materials, soils, structural and transportation engineering. These courses include laboratory sections 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* |
| Foundational Studies Program requirements indicated in **bold**. See page 50 for details and lists of approved courses. | |
| **ENGL 101** Introduction to College Writing | 3 |
| **ENGL 102** Intro to College Writing and Research | 3 |
| **UF 100** Intellectual Foundations | 3 |
| **UF 200** Civic and Ethical Foundations | 3 |
| **DLM** MATH 170 Calculus I | 4 |
| **DLN** CHEM 111, 111L General Chemistry I & Lab | 4 |
| **DLN** PHYS 211, 211L Physics I with Calculus & Lab | 5 |
| **DLV** Visual and Performing Arts* | 3 |
| **DLL** Literature and Humanities* or<br>**DLL** STEM-ED 220 Perspectives on Science and Mathematics (Secondary Education Emphasis) | 3-4 |
| **DLS** ENGL 202 Technical Communication | 3 |
| *Continued* | |

| *Civil Engineering continued* | |
|---|---|
| **DLS** Social Sciences course in a second field* or<br>**DLS** ED-CIFS 201 Foundations of Education (Secondary Education Emphasis) | 3 |
| CE 210, 211 Engineering Surveying and Lab | 3 |
| CE 280 Civil Engineering Case Studies | 2 |
| CE 282 Engineering Practice | 3 |
| CE 284 Civil Engineering Computational Methods | 2 |
| CE 320 Principles of Environmental Engineering | 3 |
| **CID** CE 321 Principles of Environmental Engineering Lab | 1 |
| CE or ENGR or ME 330, 331 Fluid Mechanics and Lab | 4 |
| **CID** CE 341 Construction Materials Lab | 1 |
| CE or ENGR or 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 |
| **CID** CE 481 Senior Design Project I | 1 |
| **FF** CE 483 Senior Design Project II | 3 |
| CHEM 112, 112L General Chemistry II with Lab | 4 |
| CMGT 120 Introduction to Construction Management | 3 |
| ENGR 120 Introduction to Engineering or<br>ENGR 130 Introduction to Engineering Applications | 3-4 |
| ENGR 210 Engineering Statics | 3 |
| ENGR 220 Engineering Dynamics | 3 |
| ENGR 245 Introduction to Materials Science & Engineering or<br>CE 340 Engineering Properties of Construction Materials | 3 |
| MATH 175 Calculus II | 4 |
| MATH 275 Multivariable and Vector Calculus | 4 |
| MATH 333 Differential Equations with Matrix Theory | 4 |
| 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 or ENGR 320 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 B.S. in Civil Engineering with an emphasis in Secondary Education. | |
| Upper-division electives to total 40 credits | 0-10 |
| *Total* | 122-125 |
| *Continued* | |

| *Civil Engineering continued* | |
|---|---|
| **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 |
| *Total* | |
| This emphasis also needs to complete ED-CIFS 201, STEM-ED 220 and STEM-ED 350. | |
| *All DL courses as well as all science, technical and design electives must be approved by the student's advisor. | |

## Course Offerings

**See page 63 for a definition of the course-numbering system.**

**CE – Civil Engineering**

**Lower Division**

**CE 200 DEVELOPMENT AND ANALYSIS (0-3-1)(F,S).** Theory and practice in developing specialized, low density concrete mixes. Analysis and testing of bridge designs. May be repeated for credit.

**CE 210 ENGINEERING SURVEYING (2-0-2)(F).** Use of transits, theodolites, levels and EDMs to measure horizontal and vertical distances, and angles. Error analysis, traverse, route and land surveying, construction surveying, and accompanying methods and calculations. PREREQ: MATH 144 or MATH 147. COREQ: CE 211.

**CE 211 ENGINEERING SURVEYING LAB (0-3-1)(F/S).** Lab work and demonstrations in surveying. COREQ: CE 210.

**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 120 or ENGR 130 and sophomore standing.

**CE 282 ENGINEERING PRACTICE (3-0-3)(F/S).** Engineering applications of probability and statistics and engineering economics. PREREQ: ENGR 120 or ENGR 130.

**CE 284 CIVIL ENGINEERING COMPUTATIONAL METHODS (2-0-2)(F/S).** Introduction to programming and computational methods in civil engineering. PREREQ: ENGR 120 or ENGR 130.

**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: CE 210 and CE 211.

**CE 316 (GEOS 316) HYDROLOGY (3-0-3)(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 in more than one department. 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, waste water generation, and water quality. Design of water and wastewater treatment systems. PREREQ: CHEM 112 and upper-division standing. COREQ: CE 321.

**CE 321 PRINCIPLES OF ENVIRONMENTAL ENGINEERING LAB (0-3-1)(F)(CID).** Environmental engineering problems with emphasis on analysis and presentation. Significance of results as compared with theory and practice. PREREQ: ENGL 102 (or ENGL 112), ENGL 202. PRE/COREQ: CE 320.

**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 202. 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 ENGR 310 or ENGR 350 or ME 350.

**CE 341 CONSTRUCTION MATERIALS LAB (0-3-1)(F/S)(CID).** Evaluation of materials used in construction. PREREQ: ENGL 102 (or ENGL 112), ENGL 202 and CE 350 or ENGR 310 or ENGR 350 or ME 350.

**CE 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.

**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 ENGR 310 or ENGR 350 or ME 350, and upper-division standing.

**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)(F/S).** Descriptive terminology, physical and engineering properties, measurement techniques, and behavior of soils. PREQ: CE 350 or ENGR 310 or ENGR 350 or ME 350, and upper-division standing. COREQ: CE 361.

**CE 361 ENGINEERING PROPERTIES OF SOILS LAB (0-3-1)(F/S).** Use of test apparatus in the evaluation of soils. PREREQ: ENGL 202. PRE/COREQ: CE 360.

**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 standing.

**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) HYDROLOGY: FLOW IN GEOLOGIC SYSTEMS (3-0-3)(S).** Introduction to the hydrologic cycle focusing on subsurface water and its relationship 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 or ENGR 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 equilibra, 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 PLANT SYSTEMS AND DESIGN (3-0-3)(F)(Odd years).** 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 and CE 330 or ME 330 or ENGR 330 or PERM/INST.

**CE 425 WASTEWATER TREATMENT PLANT SYSTEMS AND DESIGN (3-0-3)(S)(Odd years).** 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 and CE 330 or ME 330 or ENGR 330 or PERM/INST.

**CE 426 (GEOS 426) AQUEOUS GEOCHEMISTRY (3-0-3)(F/S).** 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 433 CONTAMINANT TRANSPORT (3-0-3)(S).** The fate and transport of dissolved solutes and non-aqueous phase liquids in groundwater systems. Students will analyze field data and develop conceptual models for contaminated sites. The role of engineers and hydrologists in environmental litigation will be addressed through case studies. PREREQ: CE 412 or GEOS 412 or PERM/INST.

**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 or ENGR 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 (2-3-3)(F/S).** Flood frequency analysis, reservoir characteristics and design, open channel flow applications, water project design, model studies, pump and turbine hydraulics and other water resources engineering topics. PREREQ: CE 330 or ME 330 or ENGR 330.

**CE 440 PAVEMENT DESIGN AND EVALUATION (3-0-3)(F/S).** Pavement design processes, materials selection and characterization methods, design of flexible pavements, design of rigid concrete pavements, condition survey and ratings, distress evaluation, and maintenance and rehabilitation techniques. PREREQ: CE 340, CE 341, and CE 370.

**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 (3-0-3)(F/S).** Subsoil exploration and site investigation methodologies. Soil mechanics in design of earth retaining structures, shallow and deep foundations, embankments, slopes, and excavations. PREREQ: CE 360 and CE 361.

**CE 462 FOUNDATION DESIGN (3-0-3)(F/S).** Design of foundations, slope stabilization, and retaining structures. PREREQ: CE 460.

**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 480 SENIOR DESIGN PROJECT (0-8-4)(F/S).** 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 282. PRE/COREQ: CE 370 and either CE 340 or ENGR 245.

**CE 481 SENIOR DESIGN PROJECT I (1-0-1)(F)(CID).** 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: ENGL 102 (or ENGL 112), COREQ: CE 320, CE 341 and CE 352.

**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 320, CE 341, CE 352 and CE 481. COREQ: CE 360, CE 370 and CE 330 or ME 330 or ENGR 330.

**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

*College of Arts and Sciences*

Communication Building, Room 100 Phone: (208) 426-3320
http://sspa.boisestate.edu/communication/
E-mail: commdept@boisestate.edu

*Interim Department Head and Professor:* Teresa Boucher. *Professor:* Moore. *Associate Professors:* Casper, J. McClellan, Most, Nelson-Marsh, Reeder, Traynowicz. *Assistant Professors:* Ashley, Cannon, Cho, Fromm, Hicks, Lane, e. mcclellan. *Lecturers:* Hill, Kang, Klassen, Moore, Robideaux Tiedge, Snyder.

## Degrees Offered

- Bachelor of Arts in Communication
  - Journalism and Media Studies Emphasis
  - Media Production Emphasis
  - Public Communication Emphasis
  - Relational and Organizational Studies Emphasis
- Minor in Communication
- Certificate in Cinema and Digital Media Studies
- Certificate in Public Relations

## Department Statement

The communication discipline looks at how theories, philosophies, and the roles people assume, operate in personal and public arenas. We study how people articulate their ideas, create and interpret meaning, interact, and produce and analyze messages both face to face and through the media. All programs emphasize critical thinking, problem-solving, research, and independent scholarship. Issues of specific concern are cultural perception, social ethics, creativity, and freedom of expression. Most classes are speaking and/or writing-intensive, and all focus on the interdependence of theory and practice.

While majors may pursue a B.A. in Communication with no emphasis, some may choose to concentrate their study within one of the following areas of emphasis:

- The **Journalism and Media Studies Emphasis Area** provides opportunities for critical examination of the social and economic dimensions of all media forms, including the theory and practice of journalism, with attention to the role of media in democratic society.
- The **Media Production Emphasis Area** provides opportunities to create projects in a variety of forms, including film, audio, video, television, print journalism, multi-media, digital imaging, motion graphics, web design, DVD authoring and streaming video.
- The **Public Communication Emphasis Area** offers opportunities to explore the practice, analysis, and criticism of public discourse, a focus on the rhetorical roots of the discipline, and attention to various public communication processes leading to responsible civic engagement.
- The **Relational and Organizational Studies Emphasis Area** offers opportunities to critically explore the complex ways communication creates, maintains, and changes the relationships that constitute our interpersonal, group, organizational, and intercultural lives.

Students may enrich their learning through participation in the campus news organizations (*The Arbiter*), KBSU Radio, student radio (University Pulse), University Television Productions, intercollegiate debate and speech competition, Public Relations Student Society of America, and internships. The work of many students participating in these activities has been recognized through regional and national awards. Students are encouraged to participate in internships and practica.

## Degree Requirements

| Communication<br>Bachelor of Arts | |
|---|---|
| *Course Number and Title* | *Credits* |
| Foundational Studies Program requirements indicated in **bold**. See page 50 for details and lists of approved courses. | |
| **ENGL 101** Introduction to College Writing | 3 |
| **ENGL 102** Intro to College Writing and Research | 3 |
| **UF 100** Intellectual Foundations | 3 |
| **UF 200** Civic and Ethical Foundations | 3 |
| **DLM** Mathematics | 3-4 |
| **DLN** Natural, Physical, & Applied Sciences course with lab | 4 |
| **DLN** Natural, Physical, and Applied Sciences course | 3-4 |
| **DLV** Visual and Performing Arts | 3 |
| **DLL** Literature and Humanities | 3-4 |
| **DLS** COMM 101 Fundamentals of Communication | 3 |
| **DLS** Social Sciences course in a second field | 3 |
| Communication Arts - choose one from the following:<br>COMM 131 Listening<br>COMM 211 Voice Study for Media and Live Performance<br>COMM 231 Public Speaking<br>COMM 268 Introduction to Video Production<br>COMM 269 Introduction to Audio Production<br>COMM 273 Reporting and News Writing<br>COMM 278 Principles of Public Relations | 3 |
| Communication Contexts - choose one from the following:<br>COMM 221 Interpersonal Communication<br>COMM 341 Nonverbal Communication<br>COMM 351 Intercultural Communication<br>COMM 356 Communication in the Small Group<br>COMM 361 Organizational Communication<br>COMM 390 Conflict Management | 3 |
| Analysis and Criticism/Research - choose one from the following:<br>COMM 302 Research Methods*<br>COMM 304 Perspectives of Inquiry*<br>COMM 331 Message Analysis and Criticism<br>COMM 332 Contemporary Public Communication<br>COMM 360 Media Aesthetics and Culture<br>COMM 365 Film Styles and Genres<br>*Courses chosen to satisfy requirement may not be used toward Communication in the Discipline requirement. | 3 |
| Communication Theory and Philosophy - choose one from the following:<br>COMM 321 Rhetorical Theories<br>COMM 421 Theory and Philosophy of Communication<br>COMM 431 Small Group Theory and Research<br>COMM 466 Communication Technology & Social Change<br>COMM 467 Mass Communication and Democracy | 3 |
| Complete either the following coursework to graduate with a B. A. in Communication (without an emphasis) or complete the courses listed under one of the emphases below to graduate with a B.A. in Communication with an emphasis. | |
| **CID** COMM 271 Introduction to Media or<br>**CID** COMM 302 Research Methods or<br>**CID** COMM 304 Perspectives of Inquiry | 3 |
| *Continued* | |

| *Communication continued* | |
|---|---|
| Communication Electives - choose 18 communication credits of which at least 15 must be upper-division.<br><br>Courses chosen to satisfy elective requirements must be in addition to the courses chosen to satisfy the Communication Arts, Communication Contexts, Analysis and Criticism/Research, and Communication Theory and Philosophy requirements. | 18 |
| **FF** COMM 413 Public Relations Case Studies or<br>**FF** COMM 475 Adv Studies in Comm Theory & Philosophy<br>**FF** COMM 498 Communication Seminar | 3 |
| Upper-division electives to total 40 credits | 7-16 |
| Electives to total 120 credits | 31-34 |
| *Total* | 120 |
| **Journalism and Media Studies Emphasis** | |
| **CID** COMM 271 Introduction to Media | 3 |
| Choose 18 credits from the list below, of which at least 15 credits must be upper-division*:<br>COMM 171 Mass Media and Society<br>COMM 273 Reporting and News Writing<br>COMM 278 Principles of Public Relations<br>COMM 317 Communication Activities: UTP†<br>COMM 319 Communication Activities: Student Media†<br>COMM 331 Message Analysis and Criticism<br>COMM 332 Contemporary Public Communication<br>COMM 360 Media Aesthetics and Culture<br>COMM 362 Legal and Ethical Issues of Mass Media<br>COMM 363 Advanced Journalistic Writing<br>COMM 364 Visual Communication<br>COMM 365 Film Styles and Genres<br>COMM 373 Reporting Public Affairs<br>COMM 466 Communication Technology & Social Change<br>COMM 467 Mass Communication and Democracy<br>COMM 482 Studies in Public Relations<br>COMM 487 Studies in Media Theory**<br><br>*Courses chosen to satisfy emphasis area elective requirements must be in addition to the courses chosen to satisfy the Communication Arts, Communication Contexts, Analysis and Criticism/Research, and Communication Theory and Philosophy requirements.<br><br>**Course may be repeated for credit toward emphasis area requirements.<br><br>†Only three credits of communication activities classes (COMM 317-319) will count toward emphasis area requirements. | 18 |
| **FF** COMM 489 Advanced Studies in Media | 3 |
| Upper-division electives to total 40 credits | 10-16 |
| Electives to total 120 credits | 31-40 |
| *Total* | 120 |
| *Continued* | |

| *Communication continued* | |
|---|---|
| **Media Production Emphasis** | |
| **CID** COMM 271 Introduction to Media | 3 |
| Choose 18 credits from the list below, of which at least 15 credits must be upper-division*:<br>COMM 267 The Film Grip's Role<br>COMM 268 Introduction to Video Production<br>COMM 269 Introduction to Audio Production<br>COMM 275 Digital Imaging<br>COMM 316 Comm Activities: Studio TV for Community**†<br>COMM 317 Communication Activities: UTP**†<br>COMM 318 Communication Activities: Student Radio**†<br>COMM 319 Communication Activities: Student Media**†<br>COMM 368 Advanced Audio Production<br>COMM 369 Video Post-Production<br>COMM 370 Advanced Video Production<br>COMM 375 Motion Graphics<br>COMM 470 The Film Producer's Role<br>COMM 486 Studies in Media Production**<br><br>*Courses chosen to satisfy emphasis area elective requirements must be in addition to the courses chosen to satisfy the Communication Arts, Communication Contexts, Analysis and Criticism/Research, and Communication Theory and Philosophy requirements.<br><br>**Course may be repeated for credit toward emphasis area requirements.<br><br>†Only three credits of communication activities classes (COMM 316-319) will count toward emphasis area requirements. | 18 |
| **FF** COMM 489 Advanced Studies in Media | 3 |
| Upper-division electives to total 40 credits | 10-16 |
| Electives to total 120 credits | 31-40 |
| *Total* | 120 |
| **Public Communication Emphasis** | |
| **CID** COMM 302 Research Methods or<br>**CID** COMM 304 Perspectives of Inquiry | 3 |
| Choose 18 credits from the list below, of which at least 15 credits must be upper-division*:<br>COMM 112 Reasoned Discourse<br>COMM 114 Communication Activities: Forensics†<br>COMM 160 Communication and Culture<br>COMM 214 Intercollegiate Debate<br>COMM 231 Public Speaking<br>COMM 278 Principles of Public Relations<br>COMM 314 Communication Activities: Forensics†<br>COMM 321 Rhetorical Theories<br>COMM 331 Message Analysis and Criticism<br>COMM 332 Contemporary Public Communication<br>COMM 364 Visual Communication<br>COMM 373 Reporting Public Affairs<br>COMM 377 Advanced Public Presentation<br>COMM 412 Persuasion<br>COMM 414 Intercollegiate Debate<br>COMM 421 Theory and Philosophy of Communication<br>COMM 441 Advanced Rhetorical Studies<br>COMM 482 Studies in Public Relations<br>COMM 484 Studies in Rhetoric and Public Presentation<br><br>*Courses chosen to satisfy emphasis area elective requirements must be in addition to the courses chosen to satisfy the Communication Arts, Communication Contexts, Analysis and Criticism/Research, and Communication Theory and Philosophy requirements.<br><br>†Only six credits of communication activities classes (COMM 114 and COMM 314) will count toward emphasis area requirements. | 18 |
| *Continued* | |

| *Communication continued* | |
|---|---|
| **FF** COMM 413 Public Relations Case Studies or<br>**FF** COMM 441 Advanced Rhetorical Studies or<br>**FF** COMM 475 Adv Studies in Comm Theory & Philosophy or<br>**FF** COMM 498 Communication Seminar | 3 |
| Upper-division electives to total 40 credits | 7-13 |
| Electives to total 120 credits | 34-43 |
| *Total* | 120 |
| **Relational and Organizational Studies Emphasis** | |
| **CID** COMM 302 Research Methods or<br>**CID** COMM 304 Perspectives of Inquiry | 3 |
| Choose 18 credits from the list below, of which at least 15 credits must be upper-division*:<br>COMM 131 Listening<br>COMM 160 Communication and Culture I<br>COMM 221 Interpersonal Communication<br>COMM 307 Interviewing<br>COMM 341 Nonverbal Communication<br>COMM 351 Intercultural Communication<br>COMM 356 Communication in the Small Group<br>COMM 361 Organizational Communication<br>COMM 390 Conflict Management<br>COMM 421 Theory and Philosophy of Communication<br>COMM 431 Small Group Theory and Research<br>COMM 475 Adv Studies in Comm Theory & Philosophy<br>COMM 481 Studies in Interpersonal Communication<br>COMM 483 Studies in Organizational Communication<br>COMM 485 Studies in Gender and Communication<br>COMM 488 Studies in Communication and Culture<br>COMM 493 Internship (limited to 3 credit hours total)<br>*Courses chosen to satisfy emphasis area elective requirements must be in addition to the courses chosen to satisfy the Communication Arts, Communication Contexts, Analysis and Criticism/Research, and Communication Theory and Philosophy requirements. | 18 |
| **FF** COMM 432 Advanced Organizational Communication or<br>**FF** COMM 471 Advanced Interpersonal Communication or<br>**FF** COMM 498 Communication Seminar | 3 |
| Upper-division electives to total 40 credits | 7-13 |
| Electives to total 120 credits | 34-43 |
| *Total* | 120 |

| Communication Teaching Endorsement | |
|---|---|
| *Course Number and Title* | *Credits* |
| 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 |
| COMM 401 Methods of Teaching Communication | 3 |
| *Total* | 22 |
| See Department of Curriculum, Instruction, and Foundational Studies for more information. | |

| Communication Minor | |
|---|---|
| *Course Number and Title* | *Credits* |
| Upper-division Communication courses* | 10 |
| Additional upper- or lower-division Communication courses* | 15 |
| *Total* | 25 |
| *No more than a total of 3 hours may be selected from COMM 114, COMM 293, COMM 314, COMM 451, or COMM 493. | |

## Certificate Programs

Certificate programs are similar to an academic minor and are awarded after the degree is awarded. Students may enroll in certificate programs concurrently with work on a bachelor's degree. Community members who already hold an associate or baccalaureate degree may enroll in the certificate program for continuing education or take individual classes as non-degree-seeking students.

## How to apply to receive your certificate.

You must apply for the certificate no later than the end of the first week of the semester you intend to graduate (see the Academic Calendar for the exact date).

A certificate evaluator will review your application after the 10th day of classes of the semester in which you intend to graduate. Upon review of your application, you will receive an e-mail notifying you if you are a valid candidate for the certificate. To ensure your candidacy, please review your Academic Advising Report with your academic advisor as early as possible in the process.

The Certificate in Cinema and Digital Media Studies is an interdisciplinary program designed to provide undergraduate students and community members with an historical, aesthetic and practical understanding of cinema.

The Certificate in Public Relations is designed to provide undergraduate students and community members with a concentrated, comprehensive, and applied understanding of public relations.

| Certificate in Public Relations | |
|---|---|
| *Course Number and Title* | *Credits* |
| COMM 278 Principles of Public Relations | 3 |
| COMM 279 Public Relations Campaigns | 3 |
| COMM 302 Research Methods | 3 |
| COMM 382 Public Relations Writing | 3 |
| COMM 413 Public Relations Case Studies | 3 |
| COMM 482 Studies in Public Relations | 3 |
| COMM 493 Public Relations Internship | 6 |
| Advanced Media Studies - choose one from the following:<br>COMM 332 Contemporary Public Communication<br>COMM 362 Legal and Ethical Issues in Mass Media<br>COMM 363 Advanced Journalistic Writing<br>COMM 383 Advanced Public Relations Writing<br>COMM 466 Communication Technology & Social Change<br>COMM 467 Mass Communication and Democracy<br>COMM 486 Studies in Media Production<br>COMM 487 Studies in Media Theory<br>COMM 489 Advanced Studies in Media | 3 |
| *Total* | 27 |
| The Public Relations Certificate will be awarded following completion of an associate or baccalaureate degree.<br>All courses used toward the Public Relations Certificate must be passed with a grade of C or higher. | |

| Certificate in Cinema and Digital Media Studies | |
|---|---|
| *Course Number and Title* | *Credits* |
| COMM 267 The Film Grip's Role | 1 |
| COMM 268 Introduction to Video Production | 3 |
| COMM 365 Film Styles and Genres | 3 |
| COMM 470 The Film Producer's Role | 3 |
| THEA 220 Cinema: History and Aesthetics | 3 |
| One of the following:<br>COMM 269 Introduction to Audio Production<br>COMM 368 Advanced Audio Production<br>COMM 369 Video Post-Production<br>COMM 370 Advanced Video Production<br>COMM 486 Studies in Media Production<br>COMM 494 Workshop: Animation<br>THEA 215 Acting I<br>THEA 350 Screenwriting | 3 |
| One of the following:<br>ART 497 Special Topics: Avant-garde Cinema<br>COMM 360 Media Aesthetics & Culture<br>COMM 362 Legal/Ethical Issues of Mass Media<br>COMM 487 Studies in Media Theory<br>COMM 489 Advanced Studies in Media<br>COMM 493 Internship: Film Production<br>ENGL 392 Film and Literature<br>FORLNG 321 Chinese Culture through Film<br>FORLNG 397 Special Topics: Japanese Culture through Film<br>FRENCH 490* Topics in French & Francophone Cinema<br>GERMAN 490* Topics in German Cinema<br>HIST 382 Colloquium: Latin American History through Film<br>POLS 497 Special Topics: Latin Am Politics through Film<br>SPANISH 490* Topics in Hispanic Cinema<br>SPANISH 491* Basque Cinema<br>*Taught solely in the French, German, or Spanish language, respectively. | 3 |
| One additional course from the lists above | 3 |
| *Total* | 22 |
| The Cinema and Digital Media Studies certificate will be awarded following completion of an associate or baccalaureate degree. | |

## Course Offerings

**See page 63 for a definition of the course-numbering system.**

**COMM – Communication**

Not more than four credits total of COMM 113, COMM 114, COMM 116, COMM 117, COMM 118, COMM 119, COMM 214, COMM 313, COMM 314, COMM 316, COMM 317, COMM 318, COMM 319 or COMM 414 may be applied toward fulfillment of Communication Departmental major requirements. Not more than 12 credits total of COMM 113, COMM 114, COMM 116, COMM 117, COMM 118, COMM 119, COMM 214, COMM 313, COMM 314, COMM 316, COMM 317, COMM 318, COMM 319 or COMM 414 may be counted toward any undergraduate degree requirements.

A total of 9 credits of any combination of internships, independent study, practica, or communication activities may count toward departmental major requirements. A total of 3 credits of workshops may count toward departmental major requirements. Additional credits in any of these areas may count toward general education electives.

Upper-division courses in the Department of Communication (those with a course number of 300 or higher) require advanced academic performance.

**Lower Division**

**COMM 101 FUNDAMENTALS OF COMMUNICATION (3-0-3)(F,S,SU)(DLS).** Fundamental principles of verbal, nonverbal, written, and visual communication with an introduction to relational and organizational communication, public communication, and media studies.

**COMM 112 REASONED DISCOURSE (3-0-3)(F/S)(DLS).** 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 113 COMMUNICATION ACTIVITIES: PRSSA (Variable 1-3)(F/S).** Participation in Public Relations Student Society of America. Course may be repeated for credit. PREREQ: PERM/INST.

**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.

**COMM 116 COMMUNICATION 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.

**COMM 117 COMMUNICATION ACTIVITIES: UTP (Variable 1-3)(F/S).** Production of video programming for University Television Productions. Course may be repeated for credit.

**COMM 118 COMMUNICATION ACTIVITIES: STUDENT RADIO (2-0-1)(F/S).** Participation in audio programming for Student Radio. Course may be repeated for credit. PREREQ: PERM/INST.

**COMM 119 COMMUNICATION ACTIVITIES: STUDENT MEDIA (Variable 1-3)(F,S).** Participation in production of student publications. Course may be repeated for credit.

**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 I (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 171 MASS MEDIA AND SOCIETY (3-0-3)(F/S).** An examination of the role of mass media in contemporary society. Emphasis on the inter-relationships between media and other social and political institutions, and on critical analysis of current media issues.

**COMM 211 VOICE STUDY FOR MEDIA AND LIVE PERFORMANCE (3-0-3)(F/S).** Introduction to studies of vocal credibility, announcing as a profession, voice science and American dialects. Offers skill development in performance genres such as news announcing, broadcast advertising, oral essays and live dramatization.

**COMM 214 INTERCOLLEGIATE DEBATE (1-0-1)(F/S).** Preparation for and participation in intercollegiate tournament debate. Course may be repeated for credit. COREQ: COMM 114 or 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.

**COMM 267 THE FILM GRIP'S ROLE (1-0-1)(F/S).** Introduction to working on a film set: protocol, chain of command, terminology and handling of equipment.

**COMM 268 INTRODUCTION TO VIDEO PRODUCTION (3-0-3)(F,S).** Introduction to the theory and practice of video production. Emphasis is placed on using video as an effective means of human communication and self-expression.

**COMM 269 INTRODUCTION TO AUDIO PRODUCTION (3-0-3)(F,S).** Introduction to the technologies of audio production, as well as aesthetic approaches and production strategies for different types of audio programs. Emphasis is placed on using audio as an effective means of human communication and self-expression. Students will have the opportunity to develop proposals and programs for Boise State Radio.

**COMM 271 INTRODUCTION TO MEDIA (3-0-3)(F,S)(CID).** 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 (or ENGL 112).

**COMM 273 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: ENGL 102 (or ENGL 112), ability to use keyboard, and PERM/INST.

**COMM 275 DIGITAL IMAGING (3-0-3)(F/S).** Aesthetic, technical, and conceptual practices of 2D digital graphic, design and photography.

**COMM 278 PRINCIPLES OF PUBLIC RELATIONS (3-0-3)(F).** Public relations as a professional field: history, theory, principles, and practices.

**COMM 279 PUBLIC RELATIONS CAMPAIGNS (3-0-3)(S).** Social science research as applied to public relations, case study analysis, construction, and implementation of campaigns. PREREQ: COMM 278.

**Upper Division**

**COMM 302 RESEARCH METHODS (3-0-3)(F,S)(CID).** Historical, critical, descriptive, and experimental research methods and tools in communication. Students design, conduct, report, and evaluate research projects. PREREQ: ENGL 102 (or ENGL 112), Communication major or Public Relations Certificate, upper-division standing, and completed at least 9 credits of communication.

**COMM 304 PERSPECTIVES OF INQUIRY (3-0-3)(F/S)(CID).** A study of the sources and nature of knowledge, assumptions about knowledge, processes by which knowledge is developed, and perspectives of theoretical inquiry. PREREQ: ENGL 102 (or ENGL 112) and upper-division standing.

**COMM 307 INTERVIEWING (3-0-3)(F/S).** Communication behavior in two-person situations. Practical experience in various types of interviews as confronted in business, in education, and in the professions.

**COMM 313 COMMUNICATION ACTIVITIES: PRSSA (Variable 1-3) (F/S).** Participation in Public Relations Student Society of America. Course may be repeated for credit. PREREQ: PERM/INST.

**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.

**COMM 316 COMMUNICATION 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.

**COMM 317 COMMUNICATION ACTIVITIES: UTP (Variable 1-3)(F/S).** Production of video programming for University Television Productions. Course may be repeated for credit. PREREQ: PERM/INST.

**COMM 318 COMMUNICATION ACTIVITIES: STUDENT RADIO (2-0-1)(F/S).** Participation in audio programming for Student Radio. Course may be repeated for credit. PREREQ: PERM/INST.

**COMM 319 COMMUNICATION ACTIVITIES: STUDENT MEDIA (Variable 1-3)(F/S).** Participation in production of student publications. Course may be repeated for credit. PREREQ: PERM/INST.

**COMM 321 RHETORICAL THEORIES (3-0-3)(F).** Examination of theories concerning the complexity of interaction among ideas, messages, and people, including analysis of various message strategies.

**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.

**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.

**COMM 341 NONVERBAL COMMUNICATION (3-0-3)(F/S).** An examination of the function of nonverbal behavior codes in communication.

**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.

**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.

**COMM 360 MEDIA AESTHETICS AND CULTURE (V-V-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. One lab credit may be included.

**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 or PERM/INST.

**COMM 362 LEGAL AND ETHICAL ISSUES OF MASS MEDIA (3-0-3) (F).** Examination of media-related ethical and legal issues facing media practitioners and the public.

**COMM 363 ADVANCED JOURNALISTIC WRITING (3-0-3)(F/S).** Advanced instruction in various forms of journalistic writing, including feature and critical writing. PREREQ: Upper-division standing.

**COMM 364 VISUAL COMMUNICATION (3-0-3)(S).** Theory and practice of various forms of visual communication, including photography and graphics.

**COMM 365 FILM STYLES AND GENRES (2-2-3)(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 analysis of a wide range of film art.

**COMM 368 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: COMM 269.

**COMM 369 VIDEO POST-PRODUCTION (3-0-3)(F,S).** Production strategies and techniques of computer-based video editing, graphics and animation. PREREQ: COMM 268.

**COMM 370 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 COMM 369 or PERM/INST.

**COMM 373 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: COMM 273 or PERM/INST.

**COMM 375 MOTION GRAPHICS (3-0-3)(F/S).** Practice of motion graphics using digital video, computer graphic and digital photo technologies. PREREQ: COMM 369.

**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: COMM 231 and upper-division standing.

**COMM 382 PUBLIC RELATIONS WRITING (3-0-3)(S).** Students will 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. PREREQ: COMM 278.

**COMM 383 ADVANCED PUBLIC RELATIONS WRITING (3-0-3)(F).** Planning and preparation for print, audio-visual, and online public relations messages. Students will develop core storytelling skills by writing, editing, designing and producing publications typically used by organizations to meet public relations objectives. Theory and practice of techniques in producing specialized publications: magazines, newsletters, websites and brochures for business and nonprofit organizations. PREREQ: COMM 382.

**COMM 390 (DISPUT 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, DISPUT, or SOC but not for more than one department. PREREQ: COMM 101 or SOC 290, upper-division standing.

**COMM 401 METHODS OF TEACHING COMMUNICATION (3-0-3) (F/S).** Analysis and planning of curriculum for speech communication. A study of instructional materials, classroom techniques and methods, development of behavioral objectives, and management of curricular programs. PREREQ: Admission to Secondary Teacher Education Program or PERM/INST.

**COMM 412 PERSUASION (3-0-3)(S).** Emphasis on theories of persuasion. Examination of variables and message strategies relevant to the persuasive process. Application of theory through the analysis and/or construction of persuasive messages.

**COMM 413 PUBLIC RELATIONS CASE STUDIES (3-0-3)(F)(FF).** Examination of public relations issues, contexts, and applications through case study research. Analysis of public relations cases to develop research ability and agility in the application of PR methods and theory in a wide variety of situations. PREREQ: COMM 271 or COMM 302 or COMM 304; COMM 279 and 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. COREQ: COMM 114 or COMM 314.

**COMM 421 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.

**COMM 431 SMALL GROUP THEORY AND RESEARCH (3-0-3)(F).** Advanced study of variables affecting and theories explaining the communicative interaction of small groups.

**COMM 432 ADVANCED ORGANIZATIONAL COMMUNICATION (3-0-3)(F,S)(FF).** Exploration and analysis of recent theory and research related to advanced topics in organizational communication. PREREQ: COMM 302 or COMM 304; COMM 361 and senior standing.

**COMM 441 ADVANCED RHETORICAL STUDIES (3-0-3)(S)(FF).** Examination of recent theory and research related to advanced topics in rhetoric. PREREQ: COMM 321 and 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 466 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.

**COMM 467 MASS COMMUNICATION 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.

**COMM 470 THE FILM PRODUCER'S ROLE (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 and PERM/INST.

**COMM 471 ADVANCED INTERPERSONAL COMMUNICATION (3-0-3)(F,S)(FF).** Examination of recent theory and research related to advanced topics in interpersonal communication. PREREQ: COMM 302 or COMM 304; COMM 221 and senior standing.

**COMM 475 ADVANCED STUDIES IN COMMUNICATION THEORY AND PHILOSOPHY (3-0-3)(F,S)(FF).** Reading of seminal literature in communication theory and philosophy. Writing of position papers in a seminar environment that highlight current debates over how best to conceptualize "communication." PREREQ: COMM 302 or COMM 304; COMM 271, senior standing and PERM/INST.

**COMM 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.

**COMM 481 STUDIES IN INTERPERSONAL COMMUNICATION (3-0-3)(F/S).** Examination of issues, contexts, and particulars of interpersonal communication. Content varies from semester to semester. Subjects may include: conflict management, general semantics, male-female communication, etc. Course may be repeated for credit.

**COMM 482 STUDIES IN PUBLIC RELATIONS (3-0-3)(F/S).** Examination of public relations issues, contexts, and applications. Content varies from semester to semester. Subjects may include: case studies, campaign design and analysis, promotional PR, PR for diverse audiences, media strategy and planning, etc. Course may be repeated for credit. PREREQ: COMM 279 and upper-division standing.

**COMM 483 STUDIES IN ORGANIZATIONAL COMMUNICATION (3-0-3)(F/S).** Examines contemporary theoretical perspectives of the interdependent relationship between "communication" and "organization." Topics may include organizational culture and symbolism, communication technologies, or virtual organizing. Content varies from semester to semester. Course may be repeated for credit. PREREQ: COMM 361 and upper-division standing.

**COMM 484 STUDIES IN RHETORIC AND PUBLIC PRESENTATION (3-0-3)(F/S).** Historical, theoretical, and practical study in various forms of communication presentation. Content varies from semester to semester. Subjects may include advanced public speaking, group interpretation, theory of debate, etc. Course may be repeated for credit.

**COMM 485 STUDIES IN GENDER AND COMMUNICATION (3-0-3) (F/S).** Instruction in gender as a variable in communicative behaviors. Content varies semester to semester. Subjects may include: gender issues in interpersonal and organizational communication; power, gender and nonverbal communication; feminist rhetoric. Course may be repeated for credit.

**COMM 486 STUDIES IN MEDIA PRODUCTION (3-0-3)(F/S).** Advanced work in the production of media programs, including journalism, audio and video. Specific content varies from semester to semester. Course may be repeated for credit.

**COMM 487 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.

**COMM 488 STUDIES IN COMMUNICATION AND CULTURE (3-0-3) (F/S).** Study of the role of human communication in establishing, shaping and maintaining a culture and its practices, institutions and ideologies. Content varies from semester to semester. Subjects may include intercultural communication topics or communication's interrelationship with religion, the family, narrative and myth, political systems, or leisure pursuits. Course may be repeated for credit.

**COMM 489 ADVANCED STUDIES IN MEDIA (3-0-3)(F,S)(FF).** Students produce and present media projects, productions and/or research addressing questions of media theory and practice in a seminar setting. PREREQ: Completion of all Media Production or Journalism and Media Studies Emphasis elective credits, completion of COMM 271 and senior standing.

**COMM 493 INTERNSHIP (Variable Credit).** Supervised fieldwork. For more information on internships, see University-Wide Courses in Chapter 11.

**COMM 496 INDEPENDENT STUDY (1-4 Credits).** 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 project about human communication. PREREQ: COMM 271 or COMM 302 or COMM 304; senior standing, completion of at least one course from each of the following departmental categories: Communication Arts, Communication Contexts, Communication Analysis and Criticism/ Research, Communication Theory and Philosophy.

# Department of Community and Environmental Health

*College of Health Sciences | School of Allied Health Sciences*

Health Science Riverside, Room 117 Phone: (208) 426-3929
http://hs.boisestate.edu/CEH/

*Chair and Professor:* Dale Stephenson. *Professors:* Baker, McDonald, Reischl, Toevs. *Associate Professor:* Associate Professor: Esp, Hannah, Sand. *Assistant Professors:* Curl, Osgood. *Lecturer:* Berlin, Hyer, Lasich, Turco. *Advisors:* Blaine, Boyd, Chojnacky, Colburn, Hill.

## Degrees Offered

- Bachelor of Science in Environmental and Occupational Health
- Bachelor of Science in Health Science Studies
  - General Health Emphasis
  - Gerontology Emphasis
  - Health Informatics and Information Management Emphasis
  - Health Policy and Leadership Emphasis
  - Prevention and Addiction Studies Emphasis
  - Public Health Emphasis
  - Science Emphasis
- Bachelor of Science in Pre-Dental Studies
- Bachelor of Science in Pre-Medical Studies
- Bachelor of Science in Pre-Veterinary Medicine
- Minor in Addictions Studies

## Department Statement

Students in this department may choose to study environmental and occupational health, health science studies, a pre-professional area, addictions studies, master of health sciences or graduate certification in addiction studies, gerontology or health services leadership. Students are encouraged to work closely with an advisor to ensure that the courses they take will meet degree requirements.

Advising is provided for students who are interested in a health care career, but have not yet decided which discipline to enter. Undecided, College of Health Science students should contact Cassidy Blaine, 426-1675 for advising and career information, cassidyblaine@boisestate.edu or Advising Services, 426-1678, hsadvising@boisestate.edu.

### Environmental and Occupational Health

Environmental and occupational health professionals play an important role in assisting communities to ensure a healthful environment. Specific job related activities may include: helping private businesses and public agencies assess and control airborne environmental hazards; developing and implementing hazardous waste disposal programs; and maintaining sanitary conditions in food establishments, recreational facilities, and public and private water supply systems. Other activities may include: pest control, noise pollution control, and the promotion of safe and healthful working conditions. A degree in Environmental and Occupational Health also provides the graduate with domestic and international employment opportunities with the U.S. Public Health Service, the Peace Corps, and various non-profit organizations.

The Environmental and Occupational Health curriculum provides a broad background in understanding public and occupational health problems and emphasizes working with people to arrive at solutions to control these problems. During the first two years, students take general education courses as well as coursework that emphasize knowledge in the physical and biological sciences. These may be taken at Boise State or at other accredited 2- or 4-year colleges or universities, with students transferring to Boise State for the junior and senior years. Upper-division students must complete an internship with a public or occupational health agency or a private business.

### Health Science Studies

The Bachelor of Science degree in health science studies provides students with the intellectual skills to succeed in a variety of clinical and non-clinical health related careers. The curriculum provides students with a strong health science knowledge base, as well as allowing emphasis in one of seven different areas: General Health, Gerontology, Health Informatics and Information Management, Health Policy and Leadership, Prevention and Addiction Studies, Public Health, or Science.

The **General Health Emphasis** area is designed for students seeking admission into post-baccalaureate professional programs, (e.g. medicine, dentistry, veterinary medicine, clinical laboratory science, physical therapy, health care administration, business) or a career in a health-related field.

The **Gerontology Emphasis** area offers opportunities for students to become knowledgeable about the biological, psychological and sociological aspects of the aging process. It is interdisciplinary in nature and will provide students with a solid foundation for nonclinical positions in a range of private and public sector organizations. In addition, it will establish the critical framework for those students interested in pursuing graduate-level education in gerontology, health sciences, or public health.

The **Health Informatics and Information Management (HIIM) Emphasis** area offers a broad background in theory and administration of information and opportunities to apply techniques used in the development, implementation, and retention of health information, management, and systems planning. It is interdisciplinary, integrating courses from business, information technology, and the health sciences. See below for admission requirements.

The **Health Policy and Leadership (HPL) Emphasis** area offers opportunities for students to gain broad exposure to current health issues and concepts of public and political importance. The current systems in place related to health policy and health care delivery in the United States will be examined and discussed. This interdisciplinary degree prepares students for nonclinical management and/or leadership positions in private and public sector organizations related to health. It also establishes the framework needed for students interested in advancing to graduate-level education in health care administration, public health, public administration, law, health policy, health care compliance, or health services research.

The **Prevention and Addiction Studies (PAS) Emphasis** area offers opportunities for students to gain education and experience to provide prevention and treatment services for substance abuse disorders. Completion of this program provides the didactic coursework and practicum required to sit for the Idaho Student of Addiction Studies (ISAS) exam offered through Idaho Board of Alcohol/Drug Counselor's Certification (IBADCC). See below for admission requirements.

The **Public Health Emphasis** area offers opportunities for students to gain exposure to the issues and concepts related to how public health is organized and delivered in the United States. Public health is interdisciplinary in nature and prepares students for nonclinical leadership and management positions in a range of private and public sector organizations related to health, including non-profit organizations which serve as "safety net clinics" for underserved populations. Completion of this degree will allow a student to pursue graduate-level education in health care administration, public health, public policy, or health services research.

The **Science Emphasis** area is designed for students seeking admission into post-baccalaureate professional programs, (e.g., medicine, dentistry, veterinary medicine, clinical laboratory science, physical therapy).

### Pre-Professional Studies

Pre-professional studies is designed for students who intend to apply to a professional school. This option serves students who have declared a major in pre-chiropractic, pre-dental, pre-dental hygiene, pre-dietetics, pre-medical laboratory science, pre-medicine, pre-occupational therapy, pre-optometry, pre-pharmacy, pre-physical therapy, pre-physician assistant, pre-speech-language pathology, or pre-veterinary medicine. Students should seek regular counsel with the advisor who has been designated for his or her major field of interest.

### Admissions to B.S. in Health Science Studies, Health Informatics and Information Management Emphasis

The Health Informatics and Information Management (HIIM) Emphasis area offers a broad background in theory and administration of information and opportunities to apply techniques used in the development, implementation, and retention of health information, combining clinical practice and study in areas such as electronic health records, classification systems, reimbursement methodologies, management, and systems planning. It is interdisciplinary,

integrating courses from business, information technology, and the health sciences.

Enrollment in HIIM emphasis is limited and dependent upon completion of the following admission requirements:

1. acceptance to Boise State University;
2. junior standing (completion of at least 58 credit hours);
3. minimum cumulative 2.0 GPA;
4. completion of the following courses with a grade of a C (not C-) or better:
   - ACCT 205 Introduction to Financial Accounting
   - BIOL 227 & 228 Anatomy and Physiology
   - ENGL 101 & 102 Introduction to College Writing and Research
   - HLTHST 101 Medical Terminology
   - HLTHST 202 Health Delivery Systems
   - HLTHST 215 Introduction to Health Informatics
   - ITM 104 Operating Systems and Word Processing Topics
   - ITM 105 Spreadsheet Topics
   - ITM 106 Database Topics
   - MATH 254 Introduction To Statistics
5. submission of application for admission to HIIM emphasis.

All students admitted to the HIIM emphasis 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 revocation of admission status. Students admitted to the HIIM emphasis must also submit required health status documentation prior to enrollment in clinical practice courses. See the department website to obtain more information about the admissions process and policies.

### Admissions to B.S. in Health Science Studies, Prevention and Addiction Studies Emphasis

The Prevention and Addiction Studies (PAS) emphasis in Health Sciences focuses on the prevention and treatment of substance abuse disorders. This certification is intended for entry level chemical dependency counseling within the State of Idaho.

Enrollment in the PAS emphasis is limited and dependent upon completion of the following admission requirements:

Admission requirements include:

1. completion of the following three (3) courses with a grade of a C- or better:
   - HLTHST 202 Health Delivery Systems
   - HLTHST 215 Introduction to Health Informatics
   - MATH 254 Introduction To Statistics
2. completion of the following courses with a grade of a B (not B-) or better:
   - HLTHST 109 Drugs: Use and Abuse
   - HLTHST 255 Introduction to the Field of Addictions
   - HLTHST 258 Blood Borne Pathogens for Addictions Professionals
3. submission of application for admission to PAS emphasis.
4. submission of resume.
5. submission of an essay (limited to 250 words) describing motivation for pursuing a career in prevention and treatment of substance abuse disorders.
6. submission of three (3) letters of recommendation from previous professors evaluating the applicant's academic potential. (For applicants whose academic record predates the application by five years or more, supervisors may submit the letters of reference.)

All students admitted to the PAS emphasis must submit to a criminal background check at their own expense. Information from the background check deemed to be detrimental to the provision of prevention and/or addictions care will result in revocation of admission status. See the department website to obtain more information about this policy.

## Degree Requirements

| Environmental and Occupational Health<br>Bachelor of Science | |
|---|---|
| *Course Number and Title* | *Credits* |
| Foundational Studies Program requirements indicated in **bold**. See page 50 for details and lists of approved courses. | |
| **ENGL 101** Introduction to College Writing | 3 |
| **ENGL 102** Intro to College Writing and Research | 3 |
| **UF 100** Intellectual Foundations | 3 |
| **UF 200** Civic and Ethical Foundations | 3 |
| **DLM** MATH 254 Introduction to Statistics | 3 |
| **DLN** BIOL 191 or BIOL 227 Biology | 4 |
| **DLN** CHEM 111, 111L General Chemistry I with Lab | 4 |
| **DLV** Visual and Performing Arts | 3 |
| **DLL** Literature and Humanities | 3-4 |
| **DLS** ENGL 202 Technical Communication | 3 |
| **DLS** ENVHLTH 102 Global Environmental Health | 3 |
| BIOL 192 or BIOL 228 Biology | 4 |
| BIOL 205 or BIOL 303 Microbiology | 4-5 |
| CHEM 112, 112L General Chemistry II & Lab | 4 |
| CHEM 301, 302 Survey of Organic Chemistry and Lab | 5 |
| ENVHLTH 310 Water Supply & Water Quality Management | 3 |
| ENVHLTH 320 Community Environmental Health Mgmt | 3 |
| ENVHLTH 415 Occupational Safety and Health | 3 |
| ENVHLTH 416 Noise and Other Physical Agents | 3 |
| ENVHLTH 417 Principles of Toxicology | 2 |
| ENVHLTH 419 Environmental & Occupational Health Control Methods | 2 |
| ENVHLTH 442 Hazardous Waste Management | 2 |
| ENVHLTH 450 Environmental Health Law | 2 |
| ENVHLTH 480 Air Quality Management | 2 |
| ENVHLTH 493 Environmental & Occupational Health Internship | 4 |
| ENVHLTH 498 Environmental & Occupational Health Seminar | 1 |
| GEOG 100 Introduction to Geography | 3 |
| GEOG 360 Introduction to Geographic Information Systems | 3 |
| HLTHST 304 Public Health | 3 |
| **CID** HLTHST 382 Research Methods in Health | 3 |
| **FF** HLTHST 400 Interprofessional Capstone | 1 |
| HLTHST 480 Epidemiology | 3 |
| MATH 147 Precalculus or<br>MATH 143-144 College Algebra & Analytical Trigonometry or<br>MATH 170 Calculus I | 4-5 |
| PHYS 111-112 General Physics | 8 |
| Electives to total 120 credits* | 10-13 |
| *Total* | 120 |
| *Suggested electives chosen from BIOL 410, BIOL 412, BIOL 423, ECON 201, GEOS 101, MATH 361, MGMT 301, POLS 101, POLS 102, and ZOOL 401.<br><br>Environmental and Occupational Health students must earn at least a grade of C- in their required professional courses. The professional courses are 1) all ENVHLTH courses; 2) all HLTHST courses; 3) ENGL 202. | |

| Health Science Studies<br>Bachelor of Science | |
|---|---|
| *Course Number and Title* | *Credits* |
| Foundational Studies Program requirements indicated in **bold**. See page 50 for details and lists of approved courses. | |
| **ENGL 101** Introduction to College Writing | 3 |
| **ENGL 102** Intro to College Writing and Research | 3 |
| **UF 100** Intellectual Foundations | 3 |
| **UF 200** Civic and Ethical Foundations | 3 |
| **DLM** MATH 254 Introduction to Statistics | 3 |
| **DLN** BIOL 191 or BIOL 227 | 4 |
| **DLN** CHEM 101/101L or CHEM 111/111L | 4 |
| **DLV** Visual and Performing Arts | 3 |
| **DLL** Literature and Humanities | 3-4 |
| **DLS** Social Sciences course in a first field | 3 |
| **DLS** Social Sciences course in a second field | 3 |
| BIOL 192 or BIOL 228 | 4 |
| HLTHST 101 Medical Terminology | 3 |
| HLTHST 202 Health Delivery Systems | 3 |
| HLTHST 215 Introduction to Health Informatics | 3 |
| HLTHST 300 Pathophysiology | 4 |
| HLTHST 314 Health Law and Ethics | 3 |
| **CID** HLTHST 382 Research Methods in Health | 3 |
| **FF** HLTHST 400 Interprofessional Capstone | 1 |
| HLTHST 480 Epidemiology | 3 |
| **General Health Emphasis** | |
| CHEM 102, 102L or CHEM 112, 112L | 4 |
| HLTHST 207 Nutrition | 3 |
| HLTHST 304 Public Health | 3 |
| MATH 143 College Algebra or MATH 147 Precalculus | 3-5 |
| Select 36 credits, of which at least 17 should be upper-division (for the 40 upper-division credit requirement), from the following list:<br>ACCT 205 Introduction to Financial Accounting<br>ACCT 206 Introduction to Managerial Accounting<br>BIOL 205 Introductory Microbiology<br>BIOL 300 Biology of Aging<br>CHEM 307, 308-309, 310 Organic Chemistry I & II w/Labs or CHEM 301-302 Survey of Organic Chemistry and Lab<br>CHEM 350 or CHEM 431 Biochemistry<br>COMM 356 Communication in the Small Group<br>COMM/DISPUT/SOC 390 Conflict Management<br>ECON 201 Principles of Macroeconomics<br>ECON 202 Principles of Microeconomics<br>ECON 310 (POLS 410) Public Finance<br>ECON 440 Health Economics<br>ENGL 202 Technical Communication<br>GENBUS 202 The Legal Environment of Business | 36 |
| *Continued* | |

| *Health Science Studies continued* | |
|---|---|
| HLTHST 109 Drugs: Use and Abuse<br>HLTHST 220 Cardiopulmonary Renal Physiology<br>HLTHST 306 Applied Pharmacotherapeutics<br>HLTHST 356 Community-Based Prevention Methods<br>HLTHST 360 Healthcare Finance<br>HLTHST 410 Health and Aging<br>HLTHST 420 Strategic Planning and Project Management<br>HLTHST 431 Quality Issues in Health Care<br>HLTHST 434 Health Care Bioethics<br>HLTHST 450 Current Issues in Health Policy<br>HLTHST 466 Complementary Medicine<br>HLTHST 493 Internship<br>HRM 305 Human Resource Management<br>MATH 160 Survey of Calculus or MATH 170 Calculus I<br>MGMT 301 Leadership Skills<br>MKTG 301 Principles of Marketing<br>KINES 270, 271 Applied Anatomy and Lab<br>KINES 330, 331 Exercise Physiology and Lab<br>KINES 370, 371 Biomechanics and Lab<br>PHYS 111-112 General Physics<br>POLS 403 Introduction to Public Administration<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 335 Biological Bases of Behavior<br>PSYC 351 Personality<br>PSYC 438 Community Psychology<br>SOC 340 Sociology of the Family<br>SOC 472 Sociology of Aging<br>SOCWRK 433 Aging: Social Policy and Programs<br>ZOOL 401 Human Physiology | |
| Upper-division electives to total 40 credits | 0-6 |
| Electives to total 120 credits | 0-9 |
| *Total* | 120 |
| **Gerontology Emphasis** | |
| HLTHST 207 Nutrition | 3 |
| HLTHST 304 Public Health | 3 |
| HLTHST 356 Community-Based Prevention Methods | 3 |
| HLTHST 410 Health and Aging | 3 |
| HLTHST 433 Death and Dying: A Modern Conundrum | 2 |
| HLTHST 450 Current Issues in Health Policy | 3 |
| Select 18 credits, of which at least 9 should be upper-division, from the following list:<br>BIOL 300 Biology of Aging<br>ENVHLTH/HLTHST 102 Global Environmental Health<br>HLTHST 109 Drugs: Use and Abuse<br>HLTHST 306 Applied Pharmacotherapeutics<br>HLTHST 431 Quality Issues in Health Care<br>HLTHST 466 Complementary Medicine<br>KINES 240 Foundations of Health Promotion & Prevention<br>KINES 430 Physical Activity and Aging<br>PSYC 101 General Psychology<br>PSYC 331 The Psychology of Health<br>SOC 101 Introduction to Sociology<br>SOC 340 Sociology of the Family<br>SOC 472 Sociology of Aging<br>SOC 481 Sociology of Gender and Aging<br>SOCWRK 433 Aging: Social Policy and Programs | 18 |
| Upper-division electives to total 40 credits | 0-3 |
| Electives to total 120 credits | 19-23 |
| *Total* | 120 |
| *Continued* | |

| *Health Science Studies continued* | |
|---|---|
| **Health Informatics and Information Management Emphasis** | |
| ACCT 205 Introduction to Financial Accounting | 3 |
| ACCT 206 Introduction to Managerial Accounting | 3 |
| ITM 104 Operating Systems & Word Processing Topics and<br>ITM 105 Spreadsheet Topics and<br>ITM 106 Database Topics | 3 |
| HLTHST 330 Health Information Management I with lab | 4 |
| HLTHST 332 Managing Clinical Classification Systems | 3 |
| HLTHST 333 Reimbursement Methodologies | 3 |
| HLTHST 350 Health Information Management II with lab | 4 |
| HLTHST 360 Healthcare Finance | 3 |
| HLTHST 415 Healthcare Information Systems | 3 |
| HLTHST 420 Strategic Planning and Project Management | 3 |
| HLTHST 427 Health Information Management Clinical Practice | 2 |
| HLTHST 431 Quality Issues in Health Care | 3 |
| HLTHST 437 Health Information Management Clinical Practice | 2 |
| HRM 305 Human Resource Management | 3 |
| ITM 305-305L Info Technology & Network Essentials & Lab | 4 |
| ITM 315 Database Systems | 3 |
| MGMT 301 Leadership Skills | 3 |
| Electives to total 120 credits | 4-6 |
| *Total* | 120 |
| **Health Policy and Leadership Emphasis** | |
| ACCT 205 Introduction to Financial Accounting | 3 |
| ACCT 206 Introduction to Managerial Accounting | 3 |
| ECON 201 Principles of Macroeconomics | 3 |
| ENGL 202 Technical Communication or<br>BUSCOM 201 Business Communication | 3 |
| ENVHLTH/HLTHST 102 Global Environmental Health | 3 |
| HLTHST 304 Public Health | 3 |
| HLTHST 360 Healthcare Finance | 3 |
| HLTHST 410 Health and Aging | 3 |
| HLTHST 420 Strategic Planning and Project Management | 3 |
| HLTHST 431 Quality Issues in Health Care | 3 |
| HLTHST 450 Current Issues in Health Policy | 3 |
| Select 18 credits, of which at least 9 must be upper-division, from the following list:<br>Any upper-division College of Business and Economics course open to non-COBE majors<br>ECON 202 Principles of Microeconomics<br>ECON 440 Health Economics<br>HLTHST 306 Applied Pharmacotherapeutics<br>HLTHST 356 Community-based Prevention Methods<br>HRM 305 Human Resources Management<br>KINES 240 Foundations of Health Promotion & Prevention<br>MGMT 301 Leadership Skills<br>POLS 141 Contemporary Political Ideologies<br>POLS 298 Introduction to Political Inquiry<br>POLS 407 American Policy Process<br>POLS 408 American Political Economy<br>POLS 413 Organizational Theory & Bureaucratic Structure<br>POLS 450 Administrative Law | 18 |
| *Continued* | |

| *Health Science Studies continued* | |
|---|---|
| Electives to total 120 credits | 6-7 |
| *Total* | 120 |
| **Prevention and Addiction Studies Emphasis** | |
| HLTHST 109 Drugs: Use and Abuse | 3 |
| HLTHST 255 Introduction to Field of Addictions | 3 |
| HLTHST 258 Blood Borne Pathogens for Addictions Professionals | 1 |
| HLTHST 356 Community-Based Prevention Methods | 3 |
| HLTHST 444 Addiction and the Family System | 3 |
| HLTHST 448 Counseling Skills for Addiction Professionals | 3 |
| HLTHST 464 Screening and Assessment of Alcohol and Drug Problems | 3 |
| HLTHST 465 Assessment and Case Management of Alcohol and Drug Problems | 3 |
| HLTHST 468 Group Process for Addictions Professionals | 3 |
| HLTHST 469 Ethics for Addictions Professionals | 2 |
| HLTHST 493 Pre-Professional Internship | 5 |
| KINES 240 Foundations of Health Promotion & Prevention | 3 |
| PSYC 101 General Psychology | 3 |
| Select 6 credits from the following list:<br>PSYC 301 Abnormal Psychology<br>PSYC 310 Adolescent and Adult Development<br>PSYC 331 The Psychology of Health<br>PSYC 438 Community Psychology | 6 |
| Electives to total 120 credits | 13-14 |
| *Total* | 120 |
| **Public Health Emphasis** | |
| BUSCOM 201 Business Communication | 3 |
| ECON 201 Principles of Macroeconomics | 3 |
| ECON 202 Principles of Microeconomics | 3 |
| ENVHLTH 320 Community Environmental Health Management | 3 |
| ENVHLTH/HLTHST 102 Global Environmental Health | 3 |
| HLTHST 109 Drugs: Use and Abuse | 3 |
| HLTHST 207 Nutrition | 3 |
| HLTHST 304 Public Health | 3 |
| HLTHST 356 Community-based Prevention Methods | 3 |
| HLTHST 420 Strategic Planning and Project Management | 3 |
| HLTHST 450 Current Issues in Health Policy | 3 |
| KINES 240 Foundations of Health Promotion & Prevention | 3 |
| KINES 440 Health Promotion Programming | 3 |
| Select 6 credits from the following list:<br>ANTH 425 Medical Anthro: Disease, Culture & Healing<br>ECON 310/POLS 410 Public Finance<br>ECON 440 Health Economics<br>POLS 102 State and Local Governments<br>POLS 403 Introduction to Public Administration | 6 |
| Upper-division electives to total 40 credits | 2 |
| Electives to total 120 credits | 11 |
| *Total* | 120 |
| *Continued* | |

| *Health Science Studies continued* | |
|---|---|
| **Science Emphasis** | |
| CHEM 112, 112L General Chemistry II with Lab | 4 |
| HLTHST 207 Nutrition | 3 |
| HLTHST 304 Public Health | 3 |
| MATH 143 College Algebra or MATH 147 Precalculus | 3-5 |
| Select 36 credits, of which at least 17 should be upper-division (for the 40 upper-division credit requirement), from the following list:<br>BIOL 205 Introductory Microbiology or<br>BIOL 303 General Microbiology<br>BIOL 301 Cell Biology<br>BIOL 343 Genetics Lecture<br>BIOL 410 Pathogenic Bacteriology<br>BIOL 412 General Parasitology<br>BIOL 420 Immunology<br>BIOL 451 Developmental Biology<br>CHEM 211, 212 Analytical Chemistry I and Lab<br>CHEM 307, 308-309, 310 Organic Chemistry I & II w/Labs or<br>CHEM 301-302 Survey of Organic Chemistry and Lab<br>CHEM 321, 322, 323, 324 Physical Chemistry Lecture<br>CHEM 431, 432 Biochemistry I with or without Lab<br>HLTHST 493 Internship<br>HLTHST 498 Seminar<br>MATH 160 Survey of Calculus or MATH 170 Calculus I<br>PHYS 111-112 General Physics<br>PHYS 307 Introduction to Biophysics<br>ZOOL 301 Comparative Vertebrate Anatomy<br>ZOOL 400 Vertebrate Histology<br>ZOOL 401 Human Physiology<br>ZOOL 403 Head and Neck Anatomy<br>ZOOL 409 General and Comparative Physiology | 36 |
| Upper-division electives to total 40 credits | 6 |
| Electives to total 120 credits | 0-3 |
| *Total* | 120 |
| Health science students must earn at least a grade of C- in all required courses in the major.<br>Students who intend to apply to colleges of medicine or dentistry should take CHEM 307, 308, 309, 310 and PHYS 111-112. | |

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* |
| HLTHST 109 Drugs: Use and Abuse | 3 |
| HLTHST 255 Introduction to the Field of Addictions | 3 |
| HLTHST 258 Blood Borne Pathogens for Addictions Professionals | 1 |
| HLTHST 444 Addiction and the Family System | 3 |
| HLTHST 448 Counseling Techniques for Health Professionals | 3 |
| HLTHST 464 Screening & Assessment of Alcohol and Drug Problems | 3 |
| HLTHST 465 Assessment and Case Management of Alcohol and Drug Problems | 3 |
| HLTHST 468 Group Process for Addictions Professionals | 3 |
| HLTHST 469 Ethics for Addictions Professionals | 2 |
| *Continued* | |

| *Addiction Studies Minor continued* | |
|---|---|
| One of the following:<br>PSYC 301 Abnormal Psychology<br>PSYC 310 Adolescent & Adult Development (recommended)<br>PSYC 331 The Psychology of Health | 3 |
| *Total* | 27 |

## Pre-Professional Studies

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Pre-professional Studies is designed for students who need to have undergraduate studies prior to applying to a professional school, including students who have declared a major in pre-chiropractic, pre-dental, pre-dental hygiene, pre-dietetics, pre-medical laboratory science, pre-medicine, pre-occupational therapy, pre-optometry, pre-pharmacy, pre-physical therapy, pre-physician assistant, pre-speech language pathology, or pre-veterinary medicine.

In view of the specialized nature of each program, the student should seek regular counsel with the advisor who has been designated for his or her major field of interest.

Students need to be aware of deadlines established by professional schools and testing organizations. Admissions examinations (such as the Medical College Admission Test, Dental Admission Test, Pharmacy College Admission Test, Allied Health Professions Admission Test, the Graduate Record Exam, etc.) must be taken at specific times. Deadlines for applying to professional schools vary yearly from school to school. Students are responsible for determining the specific deadlines and fees which pertain to their field of interest.

In addition to academic coursework, the pre-professional studies students have opportunities to work in a clinical environment and observe the practice and delivery of health care through arranged internships. Qualified students may register for an internship. These students work and study in a clinical environment with a practicing physician, dentist, veterinarian, etc. To register for an internship, students must have upper-division standing, cumulative GPA above 3.25, approval of the advisor, and consent of the instructor. See the course description for HLTHST 493 Internship. Students participating in clinically oriented internships may need to 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 Health Sciences policies to obtain more information about this policy.

Information is available from advisors concerning state-supported tuition programs for qualified Idaho residents to professional schools outside the state of Idaho. These programs are:

1. WWAMI (Washington-Wyoming-Alaska-Montana-Idaho) for medical school
2. Idaho contract with the University of Utah for medical school
3. IDEP (Idaho Dental Education Program) for dental school
4. WIMU (Washington, Idaho, Montana, Utah) for veterinary medicine school

### Pre-Medical and Pre-Dental

Students planning on gaining admission to medical or dental school must successfully combine an academic major with the specific prerequisite requirements of the professional school they wish to attend. Most medical and dental schools provide substantial latitude in the academic majors that students may pursue at the baccalaureate level; for this reason, students are encouraged to select degrees other than the pre-medical or pre-dental degrees listed below. Students must work closely with their pre-medicine or pre-dental advisor to successfully and efficiently meet both the academic requirements of the major they select and the professional school requirements. Most medical/dental school applicants have earned a baccalaureate degree prior to matriculation into professional school. The prerequisite courses required by most medical/

dental schools include, but are not limited to the following: ENGL 101-102 Introduction to College Writing and Research; CHEM 111, 111L-112, 112L General Chemistry I- II and labs; BIOL 191-192 General Biology I and II; PHYS 111-112 General Physics; and CHEM 307, 308, 309, 310 Organic Chemistry with BIOL 301 Cell Biology, BIOL 343 Genetics and CHEM 431 Biochemistry I or 350 highly recommended (required by the University of Washington School of Medicine).

Students should consult either the *Medical School Admission Requirements* handbook or the *Admission Requirements of U.S. and Canadian Dental Schools* handbook for requirements specific to their professional schools of interest. For additional information www.aamc.org or www.adea.org.

| Pre-Dental or Pre-Medical Studies<br>Bachelor of Science | |
|---|---|
| *Course Number and Title* | *Credits* |
| Foundational Studies Program requirements indicated in **bold**. See page 50 for details and lists of approved courses. | |
| **ENGL 101** Introduction to College Writing | 3 |
| **ENGL 102** Intro to College Writing and Research | 3 |
| **UF 100** Intellectual Foundations | 3 |
| **UF 200** Civic and Ethical Foundations | 3 |
| **DLM** MATH 254 Introduction to Statistics | 3 |
| **DLN** BIOL 191 General Biology I | 4 |
| **DLN** CHEM 111, 111L General Chemistry I with Lab | 4 |
| **DLV** Visual and Performing Arts | 3 |
| **DLL** Literature and Humanities | 3-4 |
| **DLS** PSYC 101 General Psychology | 3 |
| **DLS** Social Sciences course in a second field | 3 |
| BIOL 192 General Biology II | 4 |
| BIOL 301 Cell Biology | 3 |
| BIOL 343 Genetics Lecture | 3 |
| CHEM 112, 112L General Chemistry II & Lab | 4 |
| CHEM 307, 308-309 Organic Chemistry I and II and Labs | 10 |
| MATH 143-144 or MATH 147 Precalculus | 5 |
| MATH 160 Survey of Calculus or MATH 170 Calculus I | 4 |
| **CID** HLTHST 382 Research Methods in Health | 3 |
| **FF** HLTHST 400 Interprofessional Capstone | 1 |
| PHYS 111-112 or PHYS 211, 211L-212, 212L Physics | 8-10 |
| ZOOL 301 or BIOL 227-228 | 4-8 |
| ZOOL 401 Human Physiology | 4 |
| **Biology Option** | |
| BIOL 205 Intro Microbiology or BIOL 303 General Microbiology | 4-5 |
| CHEM 350 or CHEM 431, 432 Biochemistry | 3-4 |
| Upper-division Biology or Zoology credits to total 36 Biology/Zoology credits (exclusive of Internship, Independent Study credits) | 5-10 |
| Upper-division electives to total 40 credits | 0-8 |
| Electives to total 120 credits | 0-20 |
| *Total* | 120 |
| *Continued* | |

| *Pre-Dental or Pre-Medical Studies continued* | |
|---|---|
| **Chemistry Option** | |
| CHEM 211, 212 Analytical Chemistry I & Lab | 5 |
| CHEM 321, 322, 323, 324 Physical Chemistry Lecture & Labs | 11 |
| CHEM 431, 432 Biochemistry I and Lab | 5 |
| MATH 175 Calculus II | 4 |
| Electives to total 120 credits | 0-7 |
| *Total* | 120 |

### Pre-Veterinary Medicine

The states of Idaho, Montana, Washington and Utah have an agreement under which a number of seats in the Washington State University School (WSU) of Veterinary Medicine are guaranteed each year to qualified Idaho residents. Idaho residents who plan on veterinary medicine as a career should satisfy the entrance requirements for the WSU School of Veterinary Medicine. Students 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 (average). Candidates with the greater depth and breadth of academic background are given preference by WSU.

Students should take the Graduate Record Examination (GRE) in the spring/summer of the year in which they apply to enter veterinary schools.

Veterinary medicine is an animal-oriented profession; therefore, an applicant's experience in working with animals and an understanding of the veterinary profession are viewed by professional schools' admissions committees as important considerations in the selection process. For additional information www.aavmc.org.

| Pre-Veterinary Medicine<br>Bachelor of Science | |
|---|---|
| *Course Number and Title* | *Credits* |
| Foundational Studies Program requirements indicated in **bold**. See page 50 for details and lists of approved courses. | |
| **ENGL 101** Introduction to College Writing | 3 |
| **ENGL 102** Intro to College Writing and Research | 3 |
| **UF 100** Intellectual Foundations | 3 |
| **UF 200** Civic and Ethical Foundations | 3 |
| **DLM** MATH 254 Introduction to Statistics | 3 |
| **DLN** BIOL 191 General Biology I | 4 |
| **DLN** CHEM 111, 111L General Chemistry I with Lab | 4 |
| **DLV** Visual and Performing Arts | 3 |
| **DLL** Literature and Humanities | 3-4 |
| **DLS** Social Sciences course in a first field | 3 |
| **DLS** Social Sciences course in a second field | 3 |
| BIOL 192 General Biology II | 4 |
| BIOL 205 or BIOL 303 Microbiology | 4-5 |
| BIOL 301 Cell Biology | 3 |
| BIOL 343 Genetics Lecture | 3 |
| CHEM 112, 112L General Chemistry II & Lab | 4 |
| CHEM 307, 308-309, 310 Organic Chemistry I & II with Labs | 10 |
| CHEM 350 or CHEM 431 Biochemistry | 3 |
| **CID** HLTHST 382 Research Methods in Health | 3 |
| *Continued* | |

| *Pre-Veterinary Medicine continued* | |
|---|---|
| **FF** HLTHST 400 Interprofessional Capstone | 1 |
| MATH 143-144 or MATH 147 Precalculus | 5 |
| MATH 160 Survey of Calculus or MATH 170 Calculus I | 4 |
| PHYS 111-112 or PHYS 211, 211L-212, 212L Physics | 8-10 |
| Biology courses to total 16 from the following:<br>BIOL 400 Organic Evolution<br>BIOL 412 General Parasitology<br>BIOL 422 Conservation Biology<br>BIOL 440 General and Molecular Toxicology<br>ZOOL 301 Comparative Vertebrate Anatomy<br>ZOOL 400 Vertebrate Histology<br>ZOOL 409 General and Comparative Physiology<br>ZOOL 434 Animal Behavior | 16 |
| Upper-division electives to total 40 credits | 0-1 |
| Electives | 12-17 |
| *Total* | 120 |

## Nondegree Programs

A number of health-related nondegree programs are available at Boise State. Each is described below.

### Pre-Chiropractic

The 3-year pre-chiropractic course of study satisfies the minimum requirements of most chiropractic institutions in the country. Students must earn a minimum of 90 credits and maintain a minimum 2.50 GPA for consideration by most chiropractic schools. For more information www.chirocolleges.com.

| Pre-Chiropractic | |
|---|---|
| *Course Number and Title* | *Credits* |
| ENGL 101-102 Introduction to College Writing and Research | 6 |
| PSYC 101 General Psychology | 3 |
| Course in social science | 3 |
| Humanities or social science electives | 12 |
| BIOL 227-228 Human Anatomy and Physiology | 8 |
| CHEM 111, 111L-112, 112L General Chemistry I & II with Labs | 8 |
| CHEM 307, 308-309, 310 Organic Chemistry I & II w/Labs or CHEM 301, 302 Survey of Organic Chemistry & Lab and CHEM 350 Fundamentals of Biochemistry | 8-10 |
| MATH 143-144 College Algebra & Analytical Trigonometry or MATH 147 Precalculus | 5 |
| PHYS 111 General Physics (suggested) | 4 |
| PHYS 112 General Physics or an alternate (see advisor) | 4 |
| Additional coursework (see advisor) | 27 |
| *Total* | 85-90 |
| Suggested electives: BIOL 205, COMM 101, GENBUS 101, HLTHST 101, HLTHST 202, HLTHST 207, HLTHST 493, ZOOL 301. | |

### Pre-Dental Hygiene

A career in dental hygiene requires either an associate degree or a bachelor of science degree in dental hygiene. Students may take the first two years of general education courses and prerequisites at Boise State and then apply for admission to professional school. The program suggested here is based upon the prerequisites at Idaho State University. Students should consult an advisor and pattern their program at Boise State on the requirements of the specific professional schools to which they expect to apply. For more information www.adha.org. It is suggested that students earn an associate of science to complete core/general education requirements.

| Pre-Dental Hygiene | |
|---|---|
| *Course Number and Title* | *Credits* |
| ENGL 101-102 Intro to College Writing and Research | 6 |
| COMM 101 Fundamentals of Communication | 3 |
| PSYC 101 General Psychology | 3 |
| SOC 101 Introduction to Sociology | 3 |
| BIOL 191 General Biology I | 4 |
| BIOL 205 Introductory Microbiology | 4 |
| BIOL 227-228 Human Anatomy and Physiology | 8 |
| CHEM 101, 101L-102, 102L Essentials of Chem I & II with Labs | 8 |
| HLTHST 207 Nutrition | 3 |
| MATH 108 Intermediate Algebra or MATH 143 College Algebra and/or MATH 144 Analytical Trigonometry | 3-6 |
| MATH 254 Introduction to Statistics | 3 |
| *Total* | 48-50 |
| DENT 2201 Principles of Dental Hygiene (a 2 credit on-line course from ISU) in their freshman or sophomore year. | |
| HLTHST 100 Introduction to the Health Professions (1 credit) is highly recommended. | |

### Pre-Dietetics

The following is a suggested list of courses which may be taken prior to transferring to a four-year baccalaureate program. Refer to additional dietetics information on the www.eatright.org website. It is suggested that students earn an associate of science to complete core/general education requirements.

| Pre-Dietetics | |
|---|---|
| *Course Number and Title* | *Credits* |
| ENGL 101-102 Introduction to College Writing and Research | 6 |
| COMM 101 Fundamentals of Communication | 3 |
| ECON 201 Principles of Macroeconomics or ECON 202 Principles of Microeconomics | 3 |
| PSYC 101 General Psychology | 3 |
| ACCT 205 Introduction to Financial Accounting | 3 |
| BIOL 205 Introductory Microbiology | 4 |
| BIOL 227-228 Human Anatomy and Physiology | 8 |
| CHEM 101, 101L-102, 102L Essentials of Chem I & II w/labs or CHEM 111, 111L-112, 112L General Chemistry I & II with Labs (consult with advisor) | 4-8 |
| HLTHST 207 Nutrition | 3 |
| MATH 143 College Algebra | 3 |
| MATH 254 Introduction to Statistics | 3 |
| Electives (consult with advisor) | Varies |
| Student considering the UI program will need to also take PSYC 309 or PSYC 310, and SOC 101. | |

### Pre-Medical Laboratory Science

Clinical laboratory scientist/medical technologists perform many routine and specialized tests in the clinical laboratory to develop data for use in determining the presence and extent of disease, as well as implications as to the cause of disease. Clinical laboratory scientist/medical technologists work in areas of hematology, serology and immunology, chemistry, blood banking, microbiology and parasitology, urinalysis, histology, and cytology.

Most students plan to either complete an undergraduate degree at Boise State (frequently Biology) which includes the MLS Program prerequisites

listed below or transfer to the Idaho State University MLS program after the prerequisites are completed. If transferring to ISU prior to earning a bachelor's degree, general core requirements must meet core requirements at ISU*. Refer to additional MLS information on the www.isu.edu/mls/ website.

| Pre-Medical Laboratory Science (ISU transfer) | |
|---|---|
| *Course Number and Title* | *Credits* |
| ENGL 101-102 Introduction to College Writing and Research | 6 |
| COMM 101 Fundamentals of Communication | 3 |
| BIOL 191-192 General Biology I and II | 8 |
| BIOL 205 Introductory Microbiology or<br>BIOL 303 General Microbiology | 4 |
| BIOL 227-228 Human Anatomy and Physiology or<br>ZOOL 301 Comparative Vertebrate Anatomy and<br>ZOOL 401 Human Physiology | 8 |
| BIOL 301 Cell Biology | 3 |
| BIOL 343 Genetics Lecture | 3 |
| BIOL 420 Immunology | 3 |
| *CHEM 111, 111L-112, 112L General Chemistry I & II with Labs | 8 |
| *CHEM 307, 308-309, 310 Organic Chemistry I & II w/Labs or<br>*CHEM 301, 302 Survey of Organic Chemistry and Lab | 5-10 |
| *CHEM 431/432 Biochemistry I with or without Lab or<br>*CHEM 350 Fundamentals of Biochemistry | 3-5 |
| HLTHST 300 Pathophysiology | 4 |
| MATH 143 College Algebra or<br>MATH 147 Precalculus | 3-5 |
| MATH 254 Introduction to Statistics | 3 |
| Elective (consult with your advisor) | 0-6 |
| *Total* | 64-80 |
| *Chemistry credits must total 16<br>It is suggested that students earn an associate of science to complete core/general education requirements. | |

### Pre-Occupational Therapy

Occupational therapy schools differ considerably in their prerequisite requirements. Completion of an undergraduate degree is required to enter OT programs. A student interested in this career is advised to consult with an advisor to determine which of the several schools would be the student's choice, and pattern the pre-professional curriculum in line with the requirements of the desired schools. For more information visit www.aota.org.

| Pre-Occupational Therapy | |
|---|---|
| *Course Number and Title* | *Credits* |
| ENGL 101-102 Intro to College Writing and Research | 6 |
| Arts and Humanities (determined by professional school or degree choice) | 6-12 |
| COMM 101 Fundamentals of Communication | 3 |
| PSYC 101 General Psychology | 3 |
| SOC 101 Introduction to Sociology | 3 |
| Social Sciences (determined by professional school or degree choice) | 3-6 |
| *BIOL 191-192 General Biology I and II | 8 |
| BIOL 227-228 Human Anatomy and Physiology | 8 |
| HLTHST 101 Medical Terminology | 3 |
| *Continued* | |

| *Pre-Occupational Therapy continued* | |
|---|---|
| MATH 108 Intermediate Algebra or<br>MATH 143-144 College Algebra & Analytical Trigonometry or<br>MATH 147 Precalculus<br>Depends on math requirements at professional school | 3-5 |
| PSYC 295 Statistical Methods or other statistics course | 3 |
| PSYC 301 Abnormal Psychology | 3 |
| PSYC 309 Child Development | 3 |
| PSYC 310 Adolescent and Adult Development | 3 |
| *Other recommended courses depend on the selected professional occupational therapy school. Frequently required prerequisites: CHEM 111, PHYS 111, or applied art courses. | Varies |
| *Total* | Varies |

### Pre-Optometry

Students interested in preparing for optometry training should take science courses and laboratories designed for science majors. Brief survey courses in the sciences will not prepare a student for the schools and colleges of optometry.

Typically a minimum of three years of pre-optometry study is required, most students accepted by a school or college of optometry have completed a baccalaureate degree.

The requirements for admission to the schools and colleges of optometry vary. Students should check the optometry schools of their choice for a list of specific course pre-requisites. For more information visit www.opted.org.

| Pre-Optometry | |
|---|---|
| *Course Number and Title* | *Credits* |
| ENGL 101-102 Introduction to College Writing and Research | 6 |
| BIOL 191-192 General Biology I and II (may be required) | 8 |
| BIOL 205 Introductory Microbiology | 4 |
| BIOL 227-228 Human Anatomy and Physiology | 8 |
| CHEM 111, 111L-112, 112L General Chemistry I & II with Labs | 8 |
| *CHEM 307, 308-309, 310 Organic Chemistry I & II with Labs | 10 |
| MATH 143-144 College Algebra & Analytical Trigonometry or<br>MATH 147 Precalculus | 5 |
| *MATH 170 Calculus I | 4 |
| PHYS 111-112 General Physics | 8 |
| *Total* | 61 |
| *Requirement varies with school | |
| Additional courses that may be needed for the pre-optometric program: | |
| Biochemistry, Business courses, Differential Calculus, Internship, Microbiology, Psychology, Statistics, courses to satisfy Foundational Studies requirements. | |

### Pre-Pharmacy

Boise State students who wish to receive a Doctor of Pharmacy (Pharm.D.) degree usually plan to take their pre-professional courses at Boise State and then apply for admission to the College of Pharmacy at Idaho State University (ISU). The pharmacy program typically consists of a minimum of three years of preparatory studies followed by four years in the College of Pharmacy at ISU as well as other pharmacy programs. The curriculum outlined below is based on the minimum requirements of ISU. Students who intend to apply to pharmacy schools other than ISU are advised to consult the pre-pharmacy advisor and pattern their curriculum after that of the schools to which they expect to transfer. The suggested English and Foundational Studies credits apply toward the 30 semester credits required by the American Council on Pharmaceutical Education in oral and written communication, humanities, and social sciences.

The Pharmacy College Admissions Test (PCAT) is required at some pharmacy schools. For more information visit www.aacp.org and www.pharmacas.org.

| Pre-Pharmacy | |
|---|---|
| *Course Number and Title* | *Credits* |
| ENGL 101-102 Introduction to College Writing and Research | 6 |
| COMM 101 Fundamentals of Communication | 3 |
| ECON 201 Principles of Macroeconomics or ECON 202 Principles of Microeconomics | 3 |
| Arts and Humanities (determined by professional school or degree choice) | 6 |
| *BIOL 191 General Biology I | 4 |
| BIOL 227-228 Human Anatomy and Physiology | 8 |
| BIOL 205 Introductory Microbiology | 4 |
| CHEM 111, 111L-112, 112L General Chemistry I & II with Labs | 8 |
| CHEM 307, 308-309, 310 Organic Chemistry I & II with Labs | 10 |
| *CHEM 431 Biochemistry I or CHEM 350 Fundamentals of Biochemistry | 3 |
| MATH 143-144 College Algebra & Analytical Trigonometry or MATH 147 Precalculus | 5 |
| MATH 160 Survey of Calculus or MATH 170 Calculus I | 4 |
| *MATH 254 Introduction to Statistics (recommended) | 3 |
| *PHYS 111 General Physics | 4 |
| *Total* | 68 |
| *varies depending on school | |
| Other suggested courses: BIOL 192, HLTHST 101, CHEM 433, PHYS 112 | |

### Pre-Physical Therapy

The curriculum listed below is designed for students interested in a professional career in physical therapy. Physical therapy schools can differ significantly in their pre-professional requirements. Therefore, students interested in transferring to a physical therapy program should consult the advisor, determine physical therapy programs of interest, and pattern their specific pre-professional curriculum in line with these schools.

Students should anticipate earning a baccalaureate degree before matriculation into a professional program. As with medicine, physical therapy programs provide substantial latitude in the academic major selected at the bachelor's level. For more information visit www.apta.org or www.ptcas.org.

The curriculum listed below indicates commonly required physical therapy prerequisites. Degree requirements, along with prerequisites specific to individual physical therapy programs of interest, will need to be added.

| Pre-Physical Therapy | |
|---|---|
| *Course Number and Title* | *Credits* |
| ENGL 101-102 Introduction to College Writing & Research | 6 |
| Arts and Humanities (Refer to requirements of major and professional school requirements.) | 12 |
| COMM 101 Fundamentals of Communication | 3 |
| PSYC 101 General Psychology | 3 |
| SOC 101 Introduction to Sociology | 3 |
| Social Sciences (Refer to additional requirements of major and professional school requirements.) | 3 |
| *BIOL 191-192 General Biology I and II | 4-8 |
| BIOL 227-228 Human Anatomy and Physiology | 8 |
| *Continued* | |

| *Pre-Physical Therapy continued* | |
|---|---|
| CHEM 111, 111L-112, 112L General Chemistry I & II with Labs | 8 |
| HLTHST 101 Medical Terminology | 3 |
| KINES 330, 331 Exercise Physiology and Lab | 4 |
| MATH 143-144 College Algebra & Analytical Trigonometry or MATH 147 Precalculus | 5 |
| PHYS 111-112 General Physics | 8 |
| PSYC 295 Statistical Methods or other statistics course | 3 |
| PSYC 301 Abnormal Psychology and/or | 3 |
| PSYC 309 Child Development | 3 |
| *Total* | 78-82 |
| *varies depending on school | |
| Other suggested courses: BIOL 205, KINES 270, 271, KINES 370, 371, upper-division biology, core electives and other selected courses should be chosen with respect to meeting the requirements of the student's major and the school(s) to which the student expects to transfer. | |

### Pre-Physician Assistant

Physician assistants are taught at educational programs located primarily in university schools of medicine and allied health. Most physician assistant programs require 24 to 30 months to complete, although programs vary in length. Most programs require applicants to have completed a bachelor's degree prior to matriculation and to have had previous health care experience.

Prerequisite course requirements vary from school to school. Students are encouraged to consult with their advisor, determine which physician assistant programs are of interest, and pattern their coursework to fulfill these specific program requirements. For more information visit www.aapa.org or www.caspaonline.org.

In order to be fully licensed in Idaho, physician assistants must have a baccalaureate degree. The Health Science Studies degree (see Department of Community and Environmental Health) is very compatible with the requirements of most physician assistant professional schools.

| Pre-Physician Assistant | |
|---|---|
| *Course Number and Title* | *Credits* |
| ENGL 101-102 Introduction to College Writing & Research | 6 |
| Arts and Humanities (depends on requirements of professional school or degree choice) | 6-12 |
| Social Sciences (depends on requirements of professional school or degree choice)<br>Suggested courses: COMM 101, PSYC 101, SOC 101 | 6-12 |
| *BIOL 191-192 General Biology I and II | 8 |
| BIOL 205 Introductory Microbiology | 4 |
| BIOL 227-228 Human Anatomy and Physiology | 8 |
| CHEM 111, 111L-112, 112L General Chemistry I & II with Labs or CHEM 301, 302, CHEM 350 may be required or recommended. | 5-8 |
| HLTHST 101 Medical Terminology (recommended) | 3 |
| MATH 143 College Algebra or MATH 147 Precalculus<br>Depends on math requirements at professional school or degree choice | 3-5 |
| PSYC 295 Statistical Methods | 3 |
| PSYC 301 Abnormal Psychology | 3 |
| *Total* | 51-72 |
| *Courses may vary depending on professional school. | |
| Other suggested courses: BIOL 301, BIOL 343, other upper-division biology courses, and/or developmental psychology | |

### Pre-Speech-Language Pathology

The curriculum below reflects a partnership between Boise State University and Idaho State University in allowing students to complete a Bachelors degree in Communications Sciences and Disorders at the ISU-Meridian Center. This degree pathway is an efficient way to prepare for the graduate level Speech-Language Pathology program. Students must complete the two years of coursework indicated below at Boise State and apply to the Idaho State targeting the Communication Science and Disorders bachelor's degree. Specific admission criteria applies and students are admitted for a fall only start. A master's degree in Speech Language Pathology is required for entry into the profession. For more information visit www.asha.org. It is strongly recommended that a student earn an associate of science degree prior to transfer to meet school(s) general education requirements.

| Pre-Speech-Language Pathology | |
|---|---|
| *Course Number and Title* | *Credits* |
| ENGL 101-102 Introduction to College Writing and Research | 6 |
| Arts and Humanities course select with advisor | 3 |
| ASL 101 American Sign Language I | 4 |
| COMM 101 Fundamentals of Communication | 3 |
| PSYC 101 General Psychology | 3 |
| Physical science course (selected from PHYS, 101, 105, CHEM 100, GEOS 100, 101) | 4 |
| BIOL 227 Human Anatomy and Physiology | 4 |
| MATH 108 Intermediate Algebra and MATH 254 Introduction to Statistics or PSYC 295 Statistical Methods and a DLM | 6-8 |
| PSYC 309 Child Development | 3 |
| SOC 230 Intro to Ethnic Studies | 3 |
| HLTHST 100 Introduction to Health Professions | 3 |
| Suggested electives: LING 305, BIOL 228, ASL 102, and/or other electives as selected with advisor | 9 |
| *Total* | 56-58 |
| Note: The preceding pathway meets the criteria to fulfill prerequisite requirements for entry into the ISU Speech-Language Pathology Program. The ISU general education core must be fulfilled. For information on how to accomplish this, please check with your professional advisor.. | |
| CSED 2050 Introduction to Communication Differences & Disorders must be taken through ISU prior to acceptance into the ISU professional program. | |

## Course Offerings

**See page 63 for a definition of the course-numbering system.**

**ENVHLTH – Environmental Health**

**Lower Division**

**ENVHLTH 102 (HLTHST 102) GLOBAL ENVIRONMENTAL HEALTH (3-0-3)(F/S)(DLS).** Evaluates the impact that chemical, physical, and biological agents have on environmental ecosystems. Examines how political, economic, and cultural differences affect environmental preservation with special attention given to contrasting motivations in underdeveloped and developed nations. May be taken for ENVHLTH or HLTHST credit, but not both.

**ENVHLTH 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.)

**Upper Division**

**ENVHLTH 310 WATER SUPPLY AND WATER QUALITY MANAGEMENT (2-3-3)(F)(Even years).** Engineering, biological, and management principles of community water supply and water pollution control. PREREQ: BIOL 191-192 and CHEM 111-112.

**ENVHLTH 320 COMMUNITY ENVIRONMENTAL HEALTH MANAGEMENT (2-3-3)(F)(Odd years).** Sanitation and management practices for community problems dealing with waste disposal, vector control, food and milk protection, swimming pools, and recreation activities. PREREQ: BIOL 191-192 and CHEM 111-112.

**ENVHLTH 415 OCCUPATIONAL SAFETY AND HEALTH (2-3-3)(S) (Even years).** Recognition, evaluation, and control of environmental health hazards or stresses (chemical, physical, biological) that may cause sickness, impair health, or cause significant discomfort to employees or residents of the community. PREREQ: PHYS 111-112. COREQ: CHEM 307.

**ENVHLTH 416 NOISE AND OTHER PHYSICAL AGENTS (2-3-3)(F) (Even years).** Environmental and occupational exposure and control of sound, temperature stress, ionizing and non-ionizing radiation. PREREQ: PHYS 111-112.

**ENVHLTH 417 PRINCIPLES OF TOXICOLOGY (2-0-2)(S)(Odd years).** An examination of the absorption, distribution, and excretion of toxicants in humans and the health effects on target organs. Toxicologic evaluation, risk assessment, fate of hazardous substances in the environment and policies for the control of such substances will also be discussed. PREREQ: CHEM 111-112.

**ENVHLTH 419 ENVIRONMENTAL AND OCCUPATIONAL HEALTH CONTROL METHODS (2-0-2)(F)(Even years).** Methods, design, and practices of controlling environmental and occupational exposures to hazardous air contaminants using the principles of dilution and local exhaust ventilation. PREREQ: PHYS 111-112.

**ENVHLTH 442 HAZARDOUS WASTE MANAGEMENT (2-0-2)(S)(Odd years).** Historical, regulatory and technical aspects of hazardous waste management, relating primarily to the requirements of the Resource Conservation and Recovery Act and the Comprehensive Environmental Reclamation, Compensation, and Liability Act.

**ENVHLTH 450 ENVIRONMENTAL HEALTH LAW (2-0-2)(S)(Even years).** Various aspects of environmental and health protection law are discussed, including sources of regulatory authority, legal procedures, agency roles, and specific statutes. PREREQ: Upper-division standing or PERM/INST.

**ENVHLTH 480 AIR QUALITY MANAGEMENT (2-0-2)(F)(Odd years).** Chemical, engineering, and management principles of community and industrial air quality control. PREREQ: CHEM 111-112, upper-division standing.

**ENVHLTH 493 ENVIRONMENTAL AND OCCUPATIONAL HEALTH INTERNSHIP (0-V-V)(F/S).** Three or more hours of internship per week in a business or governmental agency. The student works within the organization, keeps a record of the experience, and discusses these experiences at a seminar. (Pass/Fail.) PREREQ: Upper-division standing; recommendation of faculty advisor; consent of instructor.

**ENVHLTH 498 ENVIRONMENTAL AND OCCUPATIONAL HEALTH SEMINAR (1-0-1)(F).** Current research and applied studies on emerging environmental and occupational health topics. PREREQ: Upper-division standing.

**HLTHST – Health Science**

**Lower Division**

**HLTHST 100 INTRODUCTION TO HEALTH PROFESSIONS (1-0-1) (F).** Various health disciplines and their clinical functions. Information on educational requirements, opportunities, and advancement for each discipline. Lectures by health faculty and guest speakers from the medical community. Orientation to health care in clinical facilities. (Pass/Fail.)

**HLTHST 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.

**HLTHST 102 (ENVHLTH 102) GLOBAL ENVIRONMENTAL HEALTH (3-0-3)(F,S)(DLS).** Evaluates the impact that chemical, physical, and biological agents have on environmental ecosystems. Examines how worldwide political, economic, and demographic diversity affects the natural environment. May be taken for ENVHLTH or HLTHST credit, but not both.

**HLTHST 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.

**HLTHST 150 (KINES 150) RESIDENTIAL COLLEGE: HEALTH PROFESSIONS (1-0-1)(F,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.

**HLTHST 202 HEALTH DELIVERY SYSTEMS (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 (or ENGL 112).

**HLTHST 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 CHEM 101-101L or CHEM 111-111L.

**HLTHST 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.

**HLTHST 216 LABORATORY VALUES (1-0-1)(F,S).** Introduction to the clinical significance of selected laboratory tests. PREREQ: PERM/INST.

**HLTHST 220 CARDIOPULMONARY RENAL PHYSIOLOGY (3-0-3)(F).** Normal and clinical physiological functions of the pulmonary, circulatory and renal systems. PREREQ: BIOL 227-228.

**HLTHST 250 (KINES 250) RESIDENTIAL COLLEGE: HEALTH PROFESSIONS (1-0-1)(F,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.

**HLTHST 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: HLTHST 109.

**HLTHST 258 BLOOD BORNE PATHOGENS FOR ADDICTIONS PROFESSIONALS (1-0-1)(S).** Overview of blood-borne pathogens and high-risk behaviors.

**HLTHST 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.

**Upper Division**

**HLTHST 300 PATHOPHYSIOLOGY (4-0-4).** 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 191-192 or BIOL 227-228.

**HLTHST 304 PUBLIC HEALTH (3-0-3)(F,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: Upper-division standing.

**HLTHST 306 APPLIED PHARMACOTHERAPEUTICS (3-0-3)(S).** Emphasis on pharmacokinetics, parasympathetic and sympathetic nervous system, drug mechanism of action and side-effects, and use of drugs in relation to health and illness. Students will be expected to use prerequisite information from pathophysiology to study drugs and their intersystem relationships. PREREQ: HLTHST 300 or PERM/INST.

**HLTHST 314 HEALTH LAW AND ETHICS (3-0-3)(F,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 upper-division standing in Health Science Studies or admission to Radiologic Sciences program.

**HLTHST 330 HEALTH INFORMATION MANAGEMENT I WITH LAB (3-3-4)(F).** Introduction to the field of health information management, including history of patient records, and functions of a health information department. In-depth study of components, development and use of the record and flow of patient information through the facility; design of forms and computer views; accreditation and licensure standards. PREREQ: Admission to Health Informatics and Information Management emphasis.

**HLTHST 332 MANAGING CLINICAL CLASSIFICATION SYSTEMS (3-0-3)(F).** Examines the development and use of various classification (coding) systems. Focuses on the principles and applications of classification systems. PREREQ: Admission to Health Informatics and Information Management emphasis, BIOL 227-228. COREQ: HLTHST 300.

**HLTHST 333 REIMBURSEMENT METHODOLOGIES (3-0-3)(S).** Study of reimbursement methods in health care. Examines payment systems, compliance, review of revenue cycles, and other management strategies critical to health care facility revenues. PREREQ: HLTHST 330, HLTHST 332.

**HLTHST 343 ESSENTIALS FOR HEALTHY LIVING: THE HUMAN CONDITION (3-0-3)(F/S).** Critical examination and application of scientifically-based personal health information.

**HLTHST 350 HEALTH INFORMATION MANAGEMENT II WITH LAB (3-3-4)(S).** Administration of health information functions, including quality, utilization and risk management with emphasis on national initiatives in health information technology and systems. PREREQ: HLTHST 330.

**HLTHST 356 COMMUNITY-BASED PREVENTION METHODS (3-0-3) (F)(Even years).** Emphasis on coalition development and assessment and evaluation of community-based prevention and health promotion strategies. PREREQ: KINES 240 and admission to upper-division standing in Health Science Studies.

**HLTHST 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: ACCT 205, ACCT 206, and upper-division standing in Health Science Studies.

**HLTHST 382 RESEARCH METHODS IN HEALTH (3-0-3)(F,S,SU) (CID).** Design of experiments, methods of analysis, interpretation and communication of results, and use of research to support evidence-based practice. PREREQ: ENGL 102 (or ENGL 112), upper-division standing and MATH 254 or KINES 301 or PSYC 295 or SOC 310 or PERM/INST.

**HLTHST 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 425 or PRE/COREQ: ENVHLTH 498 or HLTHST 480 or RADSCI 370 or RADSCI 430 or RESPCARE 355.

**HLTHST 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.

**HLTHST 415 HEALTH CARE INFORMATION SYSTEMS (3-0-3)(F/S).** Information systems and applications in health care organizations; issues and challenges in system design and implementation; systems security. PREREQ: ITM 315.

**HLTHST 420 STRATEGIC PLANNING AND PROJECT MANAGEMENT (3-0-3)(S).** Strategic management and planning and leadership in e-health environment including scheduling, monitoring, reporting, and process modeling. PREREQ: Admission to upper-division standing in Health Science Studies.

**HLTHST 431 QUALITY ISSUES IN HEALTH CARE (3-0-3)(F,S).** The mindset, management, and improvement of quality, including the use of quality

improvement tools and techniques to find and solve problems in the health care setting. PREREQ: HLTHST 202 or NURS 302 or RESPCARE 223 and upper-division standing.

**HLTHST 432 CRITICAL REVIEW OF HEALTH CARE RESEARCH (3-0-3)(S).** 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. Familiarity with using the Internet required. PREREQ: HLTHST 202, NURS 302, RESPCARE 223 or PERM/INST.

**HLTHST 433 DEATH AND DYING: A MODERN CONUNDRUM (2-0-2)(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.

**HLTHST 434 HEALTH CARE BIOETHICS (3-0-3)(S).** Discuss ideas, issues, and language in the ethics of health care. Provide a model to use in analyzing bioethical issues using case studies as a learning tool. PREREQ: Upper-division standing.

**HLTHST 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 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: Admission to Prevention and Addiction Studies emphasis area.

**HLTHST 448 COUNSELING SKILLS FOR ADDICTION PROFESSIONALS (3-0-3)(F,S).** This course is designed to introduce students to evidence based counseling techniques and interventions used with clients dealing with substance abuse and addiction issues. An overview of common theories/approaches used in chemical dependency counseling (basic counseling skills, cognitive-behavioral, motivational interviewing, harm reduction, solution-focused, systems, dual-diagnosis recognition, and prevention strategies) will be presented along with the techniques and interventions (basic interviewing skills, group work, education, etc.) that accompany each. PREREQ: Admission to Prevention and Addiction Studies emphasis area.

**HLTHST 450 CURRENT ISSUES IN HEALTH POLICY (3-0-3)(S).** Examination of the policy making process in relationship to health at the national, state and local levels. The structure of the health care system and recent changes and their effects on cost, quality and access to services are discussed. PREREQ: Admission to upper-division standing in Health Science Studies.

**HLTHST 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: Admission to Prevention and Addiction Studies emphasis area or graduate standing.

**HLTHST 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: HLTHST 464.

**HLTHST 466 COMPLEMENTARY MEDICINE (2-0-2)(F).** Medical practices other than allopathic medicine, including Chinese and Indian medicine, guided imagery, naturopathy, and massage therapy. Explores the ethical, legal and policy issues surrounding these modalities. Current research on efficacy and consumer acceptance accompanies clinical demonstration of selected modalities, such as acupuncture and massage therapy. PREREQ: Upper-division standing.

**HLTHST 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: Admission to Prevention and Addiction Studies emphasis area.

**HLTHST 469 ETHICS FOR ADDICTIONS PROFESSIONALS (2-0-2)(S).** Ethical principles and practices of addictions counseling. Emphasis on confidentiality, reporting, and dual relationships. PREREQ: Admission to Prevention and Addiction Studies emphasis area.

**HLTHST 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 254 or KINES 301 or PSYC 295 or SOC 310 or PERM/INST.

**HLTHST 493 PRE-PROFESSIONAL INTERNSHIP (Variable credit).** Internship opportunities in health sciences are available through the department. (Pass/Fail.) PREREQ: Upper-division standing, cumulative GPA above 3.25, recommendation of faculty advisor, and PERM/INST.

**HLTHST 498, 499 SEMINAR (1-0-1 or 2-0-2)(F/S).** Presentation of selected health science topics under faculty direction.

# Computational Science and Engineering Minor

*College of Arts and Sciences/College of Engineering*

Engineering Building, Room 201C Phone: (208) 426-5653
E-mail: Senocak@boisestate.edu

*Coordinator:* Inanc Senocak (Mechanical and Biomedical Engineering).
*Advisors:* Computer Science: Tim Andersen; Engineering: Inanc Senocak; Mathematics: Donna Calhoun, Jodi Mead, Grady Wright; Physics: Pushpa Raghani.

## Degrees Offered

- Minor in Computational Science and Engineering Minor

## 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:<br>Cluster A:<br>CS 117 C++ for Engineers<br>CS 121, 121L Computer Science I and Lab<br>CS 221 Computer Science II<br>Cluster B:<br>CS 121, 121L Computer Science I and Lab<br>CS 221 Computer Science II<br>CS 253 Introduction to Systems Programming | 10 |
| MATH 175 Calculus II | 4 |
| MATH 333 Differential Equations with Matrix Theory | 4 |
| Choose one scientific computing course from the following:<br>MATH 365 Introduction to Computational Mathematics<br>MATH 465 Numerical Analysis I<br>PHYS 325 Scientific Computing | 3 |
| Choose one parallel computing course from the following:<br>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 departmental CSE advisor or 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*

Micron Engineering Center Room 302J Phone: (208) 426-5766
http://coen.boisestate.edu/cs
E-mail: computerscience@boisestate.edu

*Chair and Professor:* Tim Andersen. *Associate Chair and Associate Professor:* Amit Jain. *Professor:* Xu. *Associate Professors:* Buffenbarger, Cutchin, Dialani. *Assistant Professors:* Pera, Sherman, Yeh. *Clinical Assistant Professor:* Conrad. *Associate Research Professor:* Ellertson. *Affiliate Faculty:* Ellertson, Habig, Joshi, La Fratta, Murphy, Nadelson, Wheeler. *Lecturers:* Panter, Schmidt, Thomas, Vail.

## Degrees Offered

- Bachelor of Science in Computer Science
  - Secondary Education Emphasis
- Minor in Computer Science
- Minor in Cybersecurity

## 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 B.S. in Computer Science is accredited by the Computing Accreditation Commission of ABET, 111 Market Place, Suite 1050, Baltimore, MD 21202-4012, (410) 347-7700.

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 http://idoteach.boisestate.edu. Students must meet and maintain all knowledge, skill, and disposition requirements to remain in the program.

## Educational Objectives

Graduates of the bachelor of science in Computer Science program are expected to:

- Use their expertise to solve problems in core areas of computer science.
- Apply written and oral communication skills individually and in team environments.
- Continue their education in computer science either formally or informally.
- Understand a professional code of ethics in computing.

## Degree Requirements

| Computer Science<br>Bachelor of Science | |
|---|---|
| *Course Number and Title* | *Credits* |
| Foundational Studies Program requirements indicated in **bold**. See page 50 for details and lists of approved courses. | |
| **ENGL 101** Introduction to College Writing | 3 |
| **ENGL 102** Intro to College Writing and Research | 3 |
| **UF 100** Intellectual Foundations | 3 |
| **UF 200** Civic and Ethical Foundations | 3 |
| **DLM** MATH 170 Calculus I | 4 |
| **DLN** CHEM 111, 111L General Chemistry I & Lab or **DLN** PHYS 211, 211L Physics I with Calculus & Lab | 4-5 |
| **DLN** Natural, Physical, and Applied Sciences course (One additional science course chosen from approved list available on the department website.) | 4-5 |
| **DLV** Visual and Performing Arts | 3 |
| **DLL** PHIL 102 Classics of Western Philosophy or **DLL** STEM-ED 220 Perspectives on Science and Mathematics (Secondary Education Emphasis) | 3 |
| **DLS** COMM 101 Fundamentals of Speech Communication or **DLS** ED-CIFS 201 Foundations of Education (Secondary Education Emphasis) | 3 |
| **DLS** ENGL 202 Technical Communication or **DLS** STEM-ED 210 Knowing and Learning in Mathematics and Science (Secondary Education Emphasis) | 3 |
| CS 121, 121L Computer Science I and Lab | 4 |
| CS 221 Computer Science II | 3 |
| **CID** CS 230 Ethical Issues in Computing | 3 |
| CS 253 Introduction to Systems Programming | 3 |
| CS 321 Data Structures | 3 |
| CS 354 Programming Languages | 3 |
| CS 361 Introduction to the Theory of Computation | 3 |
| CS 421 Design and Analysis of Algorithms | 3 |
| CS 441 Computer Architecture | 3 |
| CS 453 Operating Systems | 3 |
| CS 471 Software Engineering | 3 |
| CS 481 Senior Design Project | 3 |
| CS 488 Senior Outcome Assessment | 0 |
| **FF** CS 498 Seminar | 1 |
| ECE 230, 230L Digital Systems and Lab | 4 |
| ECE 330, 330L Microprocessors and Lab | 4 |
| Four additional computer science courses chosen from:<br>CS 332 Ethical Hacking<br>CS 333 Networking Security and Defense<br>CS 401 Introduction to Web Development<br>CS 402 Mobile Application Development<br>CS 410 Databases<br>CS 425 Introduction to Computer Networks<br>CS 430 Parallel Computing<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 472 Object-Oriented Design Patterns<br>CS 474 Software Quality | 12 |
| Required mathematics courses: | |
| *Continued* | |

| *Computer Science continued* | |
|---|---|
| MATH 175 Calculus II | 4 |
| MATH 189 Discrete Mathematics | 4 |
| MATH 360 Engineering Statistics or<br>MATH 361 Probability and Statistics I | 3 |
| One 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 Discrete and Foundational Mathematics II | 3-4 |
| Second semester lab science<br>CHEM 112, 112L General Chemistry II & Lab or<br>PHYS 212, 212L Physics II with Calculus & Lab | 4-5 |
| In addition, complete the following coursework to graduate with B.S. in Computer Science (without an emphasis) or complete the courses listed under the Secondary Education Emphasis below to graduate with a B.S. in Computer Science with an emphasis in Secondary Education. | |
| Electives to total 120 credits | 5-8 |
| *Total* | 120 |
| **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 |
| *Total* | 129-132 |
| This emphasis also needs to complete ED-CIFS 201, STEM-ED 210 and STEM-ED 220. | |

| Computer Science Minor | |
|---|---|
| *Course Number and Title* | *Credits* |
| CS 121, 121L Computer Science I and Lab | 4 |
| CS 221 Computer Science II | 3 |
| CS 253 Introduction to Systems Programming | 3 |
| CS 321 Data Structures | 3 |
| MATH 170 Calculus I | 4 |
| MATH 189 Discrete Mathematics | 4 |
| *Total* | 21 |

| Cybersecurity Minor | |
|---|---|
| *Course Number and Title* | *Credits* |
| CS 121, 121L Computer Science I and Lab or<br>ITM 225 Introduction to Programming | 3-4 |
| MATH 187 Discrete and Foundational Mathematics I or<br>MATH 189 Discrete Mathematics | 3-4 |
| Choose one of the following:<br>CS 230 Ethical Issues in Computing<br>ITM 315 Database Systems<br>MATH 305 Intro to Abstract Algebra & Number Theory | 3 |
| *Continued* | |

| *Cybersecurity continued* | |
|---|---|
| Choose one of the following:<br>CS 252 Introduction to C & Systems Programming for Non-Majors<br>CS 253 Introduction to Systems Programming<br>ITM 305-305L Info Technology & Network Essentials & Lab | 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 Public Key Cryptology I<br>MATH 308 Introduction to Algebraic Cryptology<br>MATH 408 Advanced Public Key Cryptology | 6 |
| *Total* | 21-24 |

## Course Offerings

**See page 63 for a definition of the course-numbering system.**

**CS – Computer Science**

**Lower Division**

**CS 101 INTRODUCTION TO COMPUTER SCIENCE PRINCIPLES (3-0-3)(F/S).** Introduction to fundamental concepts of computer science: creativity, abstraction, data and information, algorithms, programming, internet, and global impact. Basic ideas behind technologies including computers, networks, search engines, and multimedia. PREREQ: MATH 108 or satisfactory placement score.

**CS 115 INTRODUCTION TO C (2-0-2)(F/S).** An introduction to the syntactic and execution characteristics of C, including selection statements, loops, arrays, functions, and pointers. Construction, compilation, debugging, and execution of complete programs that implement given algorithms or solve simple problems. Previous programming experience is recommended, though not mandatory; C is not ideal as a first programming language. PREREQ: Satisfactory placement score.

**CS 117 C++ FOR ENGINEERS (3-0-3)(F,S).** An introductory course in computer programming, using the C++ language in a Unix environment. 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 119 INTRODUCTION TO JAVA (2-0-2)(F,S).** Syntactic and execution characteristics of Java. Translating simple algorithms into Java programs; coding, compiling, finding, and correcting errors, and executing the programs. PREREQ: MATH 108 or a satisfactory math placement score.

**CS 120 INTRODUCTION TO PROGRAMMING CONCEPTS (2-0-2)(F,S).** Fundamental programming concepts using the Alice interactive 3-D programming system. PREREQ: MATH 108 or a satisfactory math placement score.

**CS 121 COMPUTER SCIENCE I (3-0-3)(F,S).** Introduction to object oriented problem solving and programming. Software development process. Data and expressions, conditionals and loops, arrays and lists, and classes and interfaces. Introduction to graphical user interfaces and UML diagrams. PREREQ: MATH 170. COREQ: CS 121L.

**CS 121L COMPUTER SCIENCE I LAB (0-3-1)(F,S).** Lab work to accompany CS 121 Computer Science I. COREQ: CS 121.

**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 and CS 121L.

**CS 230 ETHICAL ISSUES IN COMPUTING (3-0-3)(F,S)(CID).** 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 (or ENGL 112), CS 121 and CS 121L and (COMM 101 and ENGL 202 and PHIL 102) or (ED-CIFS 201 and STEM-ED 220).

**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 or minors. Credit cannot be granted for both CS 252 and CS 253. PREREQ: CS 121 and CS 121L, 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. Basic systems programming including topics such as streams, buffers, pipes, system calls, processes, threads and libraries for Linux and Microsoft Windows. PREREQ: CS 221.

**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.

**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 252 or CS 253, or ITM 225 and ITM 305.

**CS 332 ETHICAL HACKING (3-0-3)(F/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 331, or ITM 225 and ITM 455.

**CS 333 NETWORK SECURITY AND DEFENSE (3-0-3)(F/S).** Topics include firewalls, virtual private networks, intrusion detection, intrusion prevention, traffic analysis, techniques for responding to network attacks. PREREQ: CS 331, or ITM 225 and ITM 455.

**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. PRE/COREQ: CS 321.

**CS 361 INTRODUCTION TO THE THEORY OF COMPUTATION (3-0-3)(F,S).** Grammars, automata, Turing machines, decidability and complexity, language hierarchies, and normal forms. Reducibility concepts. PRE/COREQ: CS 321.

**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 421 DESIGN AND ANALYSIS OF ALGORITHMS (3-0-3)(F,S).** Asymptotic analysis, recurrences, and amortized analysis. Divide-and-conquer, dynamic programming, greedy algorithms and graph algorithms. Primality and other number-theoretic algorithms. Tractability and NP-Completeness. PREREQ: CS 321.

**CS 425 INTRODUCTION TO COMPUTER NETWORKS (3-0-3)(S)(Odd Years).** Concepts and implementation of TCP/IP Internetworking: link, network, and transport layer protocols. Application layer services. Wireless networking 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 441 (ECE 432) COMPUTER ARCHITECTURE (3-0-3)(S).** Structure of computer systems using processors, memories, 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. Applications of Hardware Description Languages (HDL) in the design of computer systems. 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).** Process management, concurrency, inter-process communication, synchronization, scheduling, 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 471 SOFTWARE ENGINEERING (3-0-3)(F).** 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. Creation of teams and specifications to be realized in CS 481. PREREQ: CS 230 and CS 321.

**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 481 SENIOR DESIGN PROJECT (1-4-3)(S).** Capstone experience designing, implementing, and testing the software product specification defined during the previous semester in CS 471. 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 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 498 SEMINAR (1-0-1)(S)(FF).** Research, writing, and an oral presentation of a current topic in computer science. (Pass/Fail.) PREREQ: CS 230 and CS 321.

# Department of Construction Management

*College of Engineering*

Engineering Building, Room 301 Phone: (208) 426-3764
http://coen.boisestate.edu/cm Fax: (208) 392-1589

*Chair and Associate Professor:* Robert Hamilton. *Professor:* Songer. *Associate Professors:* Cline, Davis. *Lecturer:* Mincks.

## 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'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 104 Operating Systems and Word Processing Topics, and ITM 105 Spreadsheet Topics, are not required for the B.S.C.M. degree but are required prerequisites for ACCT 205, ACCT 206, and BUSSTAT 207. Students should plan on completing both ITM 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: http://cobe.boisestate.edu/itscm/placement-exams/.
2. 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.
3. 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, 1717 North Loop 1604 East, Suite 320; San Antonio, Texas 78232-1570, telephone (210) 495-6161, http://acce-hq.org/

## Degree Requirements

| Construction Management Bachelor of Science | |
|---|---|
| *Course Number and Title* | *Credits* |
| Foundational Studies Program requirements indicated in **bold**. See page 50 for details and lists of approved courses. | |
| **ENGL 101** Introduction to College Writing | 3 |
| **ENGL 102** Intro to College Writing and Research | 3 |
| **UF 100** Intellectual Foundations | 3 |
| **UF 200** Civic and Ethical Foundations | 3 |
| **DLM** MATH 160 Survey of Calculus or MATH 170 Calculus I | 4 |
| **DLN** PHYS 111 General Physics or PHYS 211, 211L Physics I with Calculus & Lab | 4-5 |
| **DLN** PHYS 112 General Physics or PHYS 212, 212L Physics II with Calculus & Lab | 4-5 |
| **DLV** Visual and Performing Arts | 3 |
| **DLL** Literature and Humanities | 3-4 |
| **DLS** COMM 101 Fundamentals of Communication | 3 |
| **DLS** ECON 202 Principles of Microeconomics | 3 |
| ACCT 205 Introduction to Financial Accounting | 3 |
| ACCT 206 Introduction to Managerial Accounting | 3 |
| BUSSTAT 207 Statistical Techniques for Decision Making I or MATH 254 Introduction to Statistics | 3 |
| CE 210, CE 211 Engineering Surveying and Lab | 3 |
| CMGT 110 Construction Materials and Methods | 3 |
| CMGT 111 Construction Materials and Methods Lab | 1 |
| CMGT 120 Introduction to Construction Management | 3 |
| **CID** CMGT 201 Construction Communications | 3 |
| CMGT 245 Drawings, Specifications, and Codes | 3 |
| 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 Concrete Formwork Construction | 3 |
| CMGT 417 Project Scheduling | 3 |
| CMGT 420 Reinforced Concrete and Steel Construction | 3 |
| CMGT 460 Project Cost Controls | 3 |
| **FF** CMGT 475 Construction Project Management | 3 |
| CMGT 485 Senior Outcome Assessment | 0 |
| ENGR 310 Statics & Mechanics of Materials for Building Construction | 4 |
| GENBUS 202 The Legal Environment of Business | 3 |
| MATH 143-144 College Algebra & Analytical Trigonometry or MATH 147 Precalculus<br>Students able to immediately take either MATH 160 or 170 may need to make up these credits by taking an additional course in any field. | 5 |
| *Continued* | |

| *Construction Management continued* | |
|---|---|
| Management chosen from:<br>ENTREP 320 Entrepreneurial Skills<br>MGMT 301 Leadership Skills<br>MGMT 410 Advanced Management Topics | 3 |
| 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 |
| Technical Electives chosen from any DLN, DLM or College of Engineering course. | 3 |
| Specialty Construction elective chosen from:<br>CMGT 380 Pre-Construction Services<br>CMGT 470 Land Development<br>CMGT 487 Professional Skills for Construction Careers<br>CMGT 493 Internship<br>CMGT 496 Independent Study<br>CMGT 497 Special Topics<br>CE 310 Advanced Surveying<br>CE 351 Codes and Official Documents | 3 |
| Electives to total 120 credits | 0-2 |
| *Total* | 120-122 |

| Construction Management Minor | |
|---|---|
| *Course Number and Title* | *Credits* |
| CMGT 110 Construction Materials and Methods | 3 |
| CMGT 120 Introduction to Construction Management | 3 |
| CMGT 245 Drawings, Specifications, and Codes | 3 |
| CMGT 367 Construction Estimating | 3 |
| CMGT 374 Construction Operations and Improvements | 2 |
| CMGT 385 Construction Contracts and Law | 3 |
| CMGT 417 Project Scheduling | 3 |
| Upper-division CMGT courses | 3 |
| *Total* | 23 |

## Course Offerings

**See page 63 for a definition of the course-numbering system.**

**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)(CID).** 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 (or ENGL 112).

**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 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: ENGR 210 or ENGR 310.

**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: ENGR 310 or ENGR 350.

**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, MATH 143 and MATH 144 or equivalent.

**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)(F).** 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 120 and GENBUS 202.

**CMGT 410 CONCRETE FORMWORK CONSTRUCTION (3-0-3)(F).** Introduction to various concrete forming systems. Design and methods of

formwork construction, including issues related to safety and quality control. Occasional field trips required. PREREQ: ENGR 310.

**CMGT 417 PROJECT SCHEDULING (2-2-3)(F).** 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 REINFORCED CONCRETE AND STEEL CONSTRUCTION (3-0-3)(S).** The structural analysis and construction of reinforced concrete and structural steel systems; including vertical and horizontal loads on beams and columns; bending, shear, compressive and tensile stresses and deflection analysis, and construction methods. PREREQ: ENGR 310.

**CMGT 460 PROJECT COST CONTROLS (3-0-3)(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: ACCT 206 and CMGT 367.

**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.

**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) PREREQ: senior status.

**CMGT 487 PROFESSIONAL SKILLS FOR CONSTRUCTION CAREERS (1-0-1)(F,S).** Resume writing and interview skills for construction industry employers, professional phone and e-mail communications, preparation and delivery of effective proposal presentations, how to prepare for and conduct effective meetings, business etiquette, and appropriate and ethical demeanor in client and subcontractor relationships. PREREQ: CMGT 120 and CMGT 201.

**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 643 Phone: (208) 426-1219
E-mail: counseloreducation@boisestate.edu

*Chair and Professor:* Diana Doumas. *Professor:* Midgett, Miller, Schottelkorb.

## 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

**See page 63 for a definition of the course-numbering system.**

**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).

**COUN 460 PLAY THERAPY APPLICATIONS (1-0-1)(F).** Specialized instruction in play therapy techniques with different guest speakers each year as part of the Idaho Initiative for Play Therapy Studies annual conference. Students must pay an additional student fee upon registration, attend the entire two-day conference, and write a comprehensive reflection paper. May be repeated, maximum 4 credits. (Pass/Fail).

**496 Independent Study (1 to 4 credits).**

Creative Writing — see Department of English

# Department of Criminal Justice

*School of Public Service*

Library Building, Room 166
http://sspa.boisestate.edu/criminaljustice/
E-mail: crimjust@boisestate.edu
Phone: (208) 426-3407
Fax: (208) 334-2359

*Chair and Associate Professor:* Lisa Growette Bostaph. *Professors:* Giacomazzi, Marsh, Walsh. *Associate Professor:* Ball. *Assistant Professors:* Gillespie, Jorgensen, King, Murdoch, Taylor. *Instructors:* Hatch, Hudson.

## Degrees Offered

- Bachelor of Science in Criminal Justice
- Associate of Science in Criminal Justice

## Department Statement

The Department of Criminal Justice 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 an associate, baccalaureate, and masters degree in criminal justice.

The mission of the Department of Criminal Justice is to offer high quality contributions to local and national criminal justice agencies. Given the comprehensive orientation of the University, our educational focus is to prepare students to be fully informed participants at all levels of the justice field. In order to provide the highest quality education, faculty actively participate in scholarship. Faculty also provide service to justice entities, the community, and the profession.

## Admission to Upper-division Criminal Justice Standing

The Department of Criminal Justice requires all criminal justice majors to apply for admission to upper-division criminal justice standing. To be admitted to upper-division criminal justice standing, a student must meet the following criteria below prior to enrolling in 300-level and 400-level criminal justice courses with the prerequisite of "upper-division criminal justice standing." Criminal justice majors enrolling in these upper-division criminal justice courses without approved upper-division standing will be withdrawn administratively from the courses.

### Minimum Criteria for Admission to Upper-division Criminal Justice Standing

1. Admission to Boise State University.
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, BIOL 100 or BIOL 107 or BIOL 191 or BIOL 227; MATH 123 or higher; 3-4 credits in DLN; 3 credits in DLV; 3-4 credits in DLL.
3. Completion of the following CJ lower-division courses with a C- or better in each course: CJ 101, CJ 102, and CJ 104.
4. Cumulative GPA of 2.75 or higher at the time of application is required.
5. At least 58 credits (including coursework in progress at the time of application).
6. Submission of a completed application and current transcript by due date published by the department each semester.

### Transfer Students

Students transferring into the Criminal Justice program from other institutions will be evaluated by the department chair 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 will be permitted to enroll in specific upper-division courses. See department website for a list of these courses.

## Degree Requirements

| Criminal Justice<br>Associate of Science | |
|---|---|
| *Course Number and Title* | *Credits* |
| Foundational Studies Program requirements indicated in **bold**. See page 50 for details and lists of approved courses. | |
| **ENGL 101** Introduction to College Writing | 3 |
| **ENGL 102** Intro to College Writing and Research | 3 |
| **UF 100** Intellectual Foundations | 3 |
| **UF 200** Civic and Ethical Foundations | 3 |
| **DLM** MATH 123 Quantitative Reasoning or higher | 3-4 |
| **DLN** BIOL 100 Concepts of Biology or<br>**DLN** BIOL 107 Introduction to Human Biology or<br>**DLN** BIOL 191 General Biology I or<br>**DLN** BIOL 227 Human Anatomy and Physiology | 4 |
| **DLN** Natural, Physical, and Applied Sciences course | 3-4 |
| **DLV** Visual and Performing Arts | 3 |
| **DLL** Literature and Humanities | 3-4 |
| **DLS** POLS 101 American National Government | 3 |
| **DLS** SOC 101 Introduction to Sociology | 3 |
| CJ 101 Introduction to Criminal Justice | 3 |
| CJ 102 Introduction to Police | 3 |
| CJ 104 Introduction to Corrections | 3 |
| CJ 375 Criminal Procedure | 3 |
| COMM 101 Fundamentals of Communication | 3 |
| Criminal Justice electives | 6 |
| Electives to total 64 | 6-9 |
| *Total* | 64 |

| Criminal Justice<br>Bachelor of Science | |
|---|---|
| *Course Number and Title* | *Credits* |
| Foundational Studies Program requirements indicated in **bold**. See page 50 for details and lists of approved courses. | |
| **ENGL 101** Introduction to College Writing | 3 |
| **ENGL 102** Intro to College Writing and Research | 3 |
| **UF 100** Intellectual Foundations | 3 |
| **UF 200** Civic and Ethical Foundations | 3 |
| **DLM** MATH 123 Quantitative Reasoning or higher | 3-4 |
| **DLN** BIOL 100 Concepts of Biology or<br>**DLN** BIOL 107 Introduction to Human Biology or<br>**DLN** BIOL 191 General Biology I or<br>**DLN** BIOL 227 Human Anatomy and Physiology | 4 |
| **DLN** Natural, Physical, and Applied Sciences course | 3-4 |
| **DLV** Visual and Performing Arts | 3 |
| **DLL** Literature and Humanities | 3-4 |
| **DLS** POLS 101 American National Government | 3 |
| **DLS** SOC 101 Introduction to Sociology | 3 |
| *Continued* | |

| *Criminal Justice, B.S. continued* | |
|---|---|
| CJ 101 Introduction to Criminal Justice | 3 |
| CJ 102 Introduction to Police | 3 |
| CJ 104 Introduction to Corrections | 3 |
| CJ 315 Theories of Crime | 3 |
| CJ 317 Juvenile Justice | 3 |
| CJ 321 Criminal Law | 3 |
| **CID** CJ 425 Research Methods | 3 |
| CJ 426 Statistics | 3 |
| **FF** CJ 498 Senior Seminar | 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 | 13 |
| Electives to total 120 credits | 34-37 |
| *Total* | 120 |

## Course Offerings

**See page 63 for a definition of the course-numbering system.**

**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 102 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.

**CJ 103 INTRODUCTION TO LAW AND JUSTICE (3-0-3)(F,S)(DLS).** Examines issues of social justice; e.g., poverty, racism, sexism, alienation, and use of law for social control.

**CJ 104 INTRODUCTION TO CORRECTIONS (3-0-3)(F,S).** History, theory, practices, and research in adult, community, and institutional corrections.

**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 311 LAW AND POPULAR CULTURE (3-0-3)(SU).** Examines how the court system is portrayed in popular media and how this portrayal comports with reality. Popular media will be used as the basis for a discussion of legal issues.

**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: Upper-division criminal justice standing.

**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: Upper-division criminal justice standing.

**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: 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.

**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 courses 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. This course may be taken for CJ or SOC credit, but not both. PREREQ: Upper-division criminal justice 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: 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: Upper-division criminal justice standing.

**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: 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: Upper-division standing.

**CJ 425 RESEARCH METHODS (3-0-3)(F,S)(CID).** Exploration of the philosophy of science, research designs, and their implementation. Introduction to basic quantitative and qualitative research methods in criminal justice. Focus is placed upon refining students' oral and written communication skills. PREREQ: ENGL 102 (or ENGL 112), upper-division criminal justice standing.

**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 upper-division criminal justice standing.

**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: Upper-division criminal justice standing.

**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: Upper-division criminal justice 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: Upper-division criminal justice 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: Upper-division criminal justice standing.

**CJ 471 CRIMINALISTICS (3-0-3)(F,S).** Major concepts of forensic science and investigator role in crime scene evidence collections. PREREQ: Upper-division standing.

**CJ 491 FIELD WORK I (V-V-3).** 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: Upper-division criminal justice standing.

**CJ 492 FIELD WORK II (V-V-3).** 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 upper-division criminal justice standing.

# Department of Curriculum, Instruction, and Foundational Studies

*College of Education*

Education Building, Room 217 Phone: (208) 426-1672
http://education.boisestate.edu Fax: (208) 426-4006

*Chair and Professor:* Philip Kelly. *Professors:* Brendefur, Gabbard, Parrett, Snow, Willison. *Associate Professors:* Budge, Fry. *Assistant Professors:* Carney, Chang, Eliason, Hagenah, Siebert, Wenner. *Clinical Assistant Professors:* Cross, Dismuke, Zenkert.

## Degrees Offered

- 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. Course work 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. Course work 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 http://education.boisestate.edu/cifs/programs/graduate-certificate/.

### Admission to Elementary Teacher Education

Admission to elementary 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 Office of Teacher Education (Education Building, Room 722).

The admission requirements are:

1. Application Package: see http://education.boisestate.edu/teachered/ 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
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 80th 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. ED-LLC 200 or ED-ESP 250, and ED-CIFS 201, ED-CIFS 203 and EDTECH 202 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) and writing (162). For information, access the PRAXIS website at 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 elementary 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 elementary education student must be reviewed and approved by the Office of Teacher Education. 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 http://education.boisestate.edu/teachered/interviewinformation/.

### Admission to the Professional Year

The following requirements apply to all students seeking certification as elementary education (K-8) teachers. Student teaching is scheduled through the Office of Teacher Education, Education Building, Room 722.

1. Application Package via Taskstream: see: http://education.boisestate.edu/teachered/applicationinformation/ for procedural details
2. Deadlines:
   - First Friday in February for students desiring to enter the professional year fall semester.
   - Third Friday in September for students desiring to enter the professional year spring semester.
3. Academic Requirements:
   - Senior standing
   - Minimum cumulative GPA of 3.0.
   - Minimum GPA of 3.0 in all education courses.
   - Passing score on Praxis II. For information please access the PRAXIS website at www.ets.org/praxis/idaho/requirements.
   - 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.
   - 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 can 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 Director of Teacher Education in Education Building, Room 722.
5. The professional year 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 University.
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 (available in the Office of Teacher Education, Education Building, Room 722).
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 sheet or notarized copy for all PRAXIS II assessments.
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<br>Bachelor of Arts | |
|---|---|
| *Course Number and Title* | *Credits* |
| Foundational Studies Program requirements indicated in **bold**. See page 50 for details and lists of approved courses. | |
| **ENGL 101** Introduction to College Writing | 3 |
| **ENGL 102** Intro to College Writing and Research | 3 |
| **UF 100** Intellectual Foundations | 3 |
| **UF 200** Civic and Ethical Foundations | 3 |
| **DLM** MATH 257 Geometry and Probability for Teachers | 4 |
| **DLN** Natural, Physical, & Applied Sciences two (2) courses with labs | 8 |
| **DLV** Visual and Performing Arts | 3 |
| **DLL** Literature and Humanities | 3-4 |
| **DLS** ED-LLC 200 Cultural Diversity in the School | 3 |
| **DLS** ED-CIFS 201 Foundations of Education | 3 |
| ART 321 or COUN 301 or MUS 374 | 3 |
| ED-CIFS 203 Child and Educational Psychology | 3 |
| ED-CIFS 329 Assessment in Teaching and Learning | 3 |
| ED-CIFS 330 Elementary Social Studies Curriculum & Instruction | 3 |
| ED-CIFS 331 Elementary Mathematics Curriculum & Instruction | 3 |
| ED-CIFS 332 Elementary Classroom Learning Environments | 3 |
| ED-CIFS 333 Elementary Science Curriculum & Instruction or ENGR 385 Science Methods through Engineering | 3-4 |
| **FF** ED-CIFS 400 Constructing a Professional Portfolio | 1 |
| ED-CIFS 460 Professional Year I | 5 |
| ED-CIFS 461 Professional Year II: Teaching Experience in Elementary Education | 6 |
| ED-LLC 340 Idaho Comprehensive Literacy | 4 |
| ED-LLC 345 Writing Process and Assessment for K-8 Classrooms | 3 |
| **CID** ED-LLC 440 Content Area Language Arts: K-8 | 3 |
| ED-ESP 250 Exceptionality in the Schools | 3 |
| One 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<br>ED-ESP 467 Teaching Experience in Special Education | 6 |
| EDTECH 202 Teaching and Learning in a Digital Age | 3 |
| KINES 355 Elementary School Health & PE Curriculum & Instruction | 3 |
| MATH 157 Structure of Arithmetic for Teachers | 4 |
| PSYC 101 General Psychology | 3 |
| *Continued* | |

| *Elementary Education continued* | |
|---|---|
| The Idaho state teacher certification requires a minimum of 20 credits in one of the following fields: American Government/Political Science, Art, Biological Science, Chemistry, Communication, Communication/Drama, Earth Science, Economics, English, Foreign Language, Geography, Geology, Gifted/Talented, Health, History, Literacy, Mathematics, Music, Natural Science, Physical Science, Physics, Psychology, Social Studies, Technology Education. | 10-20 |
| Electives to total 120 | 0-9 |
| *Total* | 120-122 |

## Secondary Education Program

In secondary teacher education courses, candidates will examine theories of learning and human development. Course work 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. Course work 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 http://education.boisestate.edu/cifs/programs/graduate-certificate/.

## Admission to Secondary Teacher Education

Admission to secondary teacher education is required before a student can enroll in Block I. Application is available via Taskstream and submitted electronically for review by the Office of Teacher Education (Education Building, Room 722).

The admission requirements are:

1. Application Package: See http://education.boisestate.edu./teachered 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
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 Foundations of Education or its equivalent.

- Minimum grade of C in EDTECH 202 Teaching and Learning in a Digital Age.
- Passing score on the PRAXIS Core Academic Skills for Educators for writing (162). For information, access the PRAXIS* website at www.ets.org/praxis/.
- 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 the Office of Teacher Education. 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 http://education.boisestate.edu/teachered/interviewinformation/.

Any student who is denied continued enrollment in the program is entitled to due process.

## 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 the Office of Teacher Education, Education Building, Room 722.

1. Application Package: see http://education.boisestate.edu/teachered/applicationinformation/ for procedural details
2. Deadlines:
   - First Friday in February for admission to the Professional Year (Block II) for the fall semester
   - Third Friday in September for admission to the Professional Year (Block II) for the spring semester
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 Block I.
   - 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 Director of Teacher Education in the Education Building, Room 722.
3. The professional year 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 University.
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.

| *Courses* | *Titles* | *Credits* |
|---|---|---|
| *Pre-admission courses* | | |
| ED-CIFS 201 | Foundations of Education | 3 |
| EDTECH 202 | Ed Tech: Classroom Applications | 3 |
| *Block I* | | |
| 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 |
| *Block II* | | |
| ED-CIFS 401 | Professional Year–Teaching Experience II | 3 |
| ED-LLC 444 | Content Literacy for Secondary Students | 3 |
| | Content Methods Course | 3 |
| *Block III* | | |
| ED-CIFS 484/485 | Professional Year–Junior/Senior High Teaching Experience III | 14 |
| ED-CIFS 481 | Professional Year–Teaching Experience III Dual Option* | 7 |
| *Block IV* | | |
| ED-CIFS 482/483 | Professional Year–Junior/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 (available in the Education Building, Room 722).
2. Official transcripts from ALL colleges and/or universities attended.
3. Completed Institutional Recommendation from Office of Teacher Education.
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.

## Course Offerings

**See page 63 for a definition of the course-numbering system.**

**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 FOUNDATIONS OF EDUCATION (3-0-3)(F,S,SU)(DLS).** Social, multicultural, philosophical, and historical perspectives in education; current educational issues; and problems of education. Provides a conceptual framework from which students will learn to 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. PREREQ: PSYC 101.

**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 demonstrate teaching competence in a classroom setting. 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. 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, ED-CIFS 460.

**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.

**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, ED-CIFS 460 for Elementary Education majors; or only ED-LLC 460 for Bilingual Education majors or only ED-CIFS 459 for Special Education Option 1 major.

**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.

**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 393 BEGINNING DRIVER EDUCATION (2-1-2)(F,S,SU).** Designed to aid teachers in the instruction of beginning drivers and in the use of dual controlled automobiles. It includes the functioning of the vehicle, its proper operation, and traffic control safety.

**ED-CIFS 394 ADVANCED DRIVER EDUCATION (2-1-2)(F,S,SU).** Designed to provide advanced preparation in principles and practices of driver and traffic safety education for teachers, supervisors, and administrators. PREREQ: ED-CIFS 393.

**ED-CIFS 395 GENERAL SAFETY EDUCATION (3-0-3)(F,S,SU).** Provides a comprehensive survey of general safety education, applied to all fields in general but to public schools in particular. Includes the study of accidents, safety, accident prevention, and the school's role in safety relative to other public and private agencies.

**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. COREQ: For Elementary Education majors: ED-CIFS 465 or ED-CIFS 466; for Secondary Education Emphasis majors: ED-CIFS 482 or ED-CIFS 483.

**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/S).** 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 (1-0-1)(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 (1-0-1)(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 453 PROFESSIONAL EDUCATION (Variable 1-3).** 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 459 PROFESSIONAL YEAR I (0-7-2)(F,S).** Classroom placement focusing on activities related to planning and preparation of curriculum and instruction and professional responsibilities. Students complete a minimum of 100 hours in the K-8 classroom, a work sample, and participate in weekly seminars with their liaisons. Students apply knowledge and skills from all professional education coursework. (Pass/Fail.) PREREQ: Admission to the Professional Year. COREQ: ED-ESP 459.

**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 329, ED-CIFS 332.

**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 or ENGR 385, ED-CIFS 460, and ED-LLC 440. COREQ: ED-CIFS 465 or ED-CIFS 466 or ED-ESP 467.

**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.

Dance Minor—see Department of Theatre Arts

Dental, Pre-Professional Program—see Department of Community and Environmental Health

Dietetics, Pre-Professional Program—see Department of Community and Environmental Health

# Dispute Resolution Certificate

*School of Public Service*

Environmental Research Building, Room 1139 Phone: (208) 426-2513
E-mail: bayardgregory@boisestate.edu Fax: (208) 426-4370

*Program Coordinator:* Bayard Gregory

## Programs Offered

- Certificate in Dispute Resolution
  - Life Skills Focus
  - Mediation Focus

## Program Statement

Students may pursue one of two options in completing the Dispute Resolution Certificate: Life Skills or Mediation.

Mediation, in which a trained facilitator helps individuals resolve their differences outside of the courtroom, increasingly is being used by community members, businesses, and the judicial system. Within the Boise State Dispute Resolution Certificate program with a Mediation Focus, students learn negotiation and mediation skills, acquire technical and advanced skills within one area of specialization and apply those skills in the public arena. A performance-based test comprises the capstone experience.

The Dispute Resolution Certificate with a Mediation Focus may be pursued by students who are seeking a degree or by others who are working toward the requirements for mediators established by the courts or mediation professional organizations. While mediation potentially could be used in nearly every occupation, the certificate may be of particular interest to students who seek management, personnel, social work, or court-related careers.

A portion of the credits for this certificate are earned in workshops offered through the Division of Extended Studies and staffed by local and national mediation experts. Workshops within the Dispute Resolution Certificate program with a Mediation Focus are designed to support the requirements set by the Idaho Supreme Court, Idaho Fourth District Court, Idaho Mediation Association, and the Academy of Family Mediators.

Students may also pursue the Boise State Dispute Resolution Certificate program with a Life Skills Focus. The Life Skills Focus involves additional skills in negotiation (DISPUT 401) or intercultural conflict (DISPUT 402) in place of the internship (DISPUT 493/590) and competency boards (DISPUT 446) required by the Mediation Focus.

## Certificate Requirements

| Certificate in Dispute Resolution<br>Mediation Focus | |
|---|---|
| *Course Number and Title* | *Credits* |
| DISPUT/COMM/SOC 390 Conflict Management | 3 |
| DISPUT 400 Basic Mediation Skills | 3 |
| DISPUT 446 Dispute Resolution Competency Assessment | 1 |
| DISPUT 493/590 Internship | 2 |
| DISPUT 494/594 Workshops in Area of Emphasis | 3 |
| *Total* | 12 |
| The Dispute Resolution Certificate will be awarded following completion of an associate or baccalaureate degree. | |

| Certificate in Dispute Resolution<br>Life Skills Focus | |
|---|---|
| *Course Number and Title* | *Credits* |
| DISPUT/COMM/SOC 390 Conflict Management | 3 |
| Choose two of the following:<br>DISPUT 400 Basic Mediation Skills<br>DISPUT 401 Negotiation<br>DISPUT 402 Culture and Conflict | 6 |
| DISPUT 494/594 Workshops in Area of Emphasis | 3 |
| *Total* | 12 |
| The Dispute Resolution Certificate will be awarded following completion of an associate or baccalaureate degree. | |

## Course Offerings

**See page 63 for a definition of the course-numbering system.**

**DISPUT – Dispute Resolution**

**DISPUT 390 (COMM 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, DISPUT, or SOC but not for more than one department.

**DISPUT 400 BASIC MEDIATION SKILLS (3-0-3)(F/S).** Students learn the theoretical foundations of negotiation and mediation, types of mediation, mediation models, mediation case work skills, building the mediation plan, interpersonal communication skills for mediation, and various resolution techniques. Students will mediate several simulated and/or actual practice cases.

**DISPUT 401 NEGOTIATION (3-0-3)(F/S).** The theory and practice of communicating with others to achieve a goal. Explores both competitive and cooperative approaches. Emphasizes reaching wise outcomes amicably and efficiently.

**DISPUT 402 CULTURE AND CONFLICT (3-0-3)(F/S).** Interpersonal relationships are impacted by cultural differences in ways that sometimes cause conflicts. Understanding one's root culture compared to other cultures can help prevent intercultural conflict. Techniques for responding to intercultural conflict at the work and relationship level will be presented.

**DISPUT 446 DISPUTE RESOLUTION COMPETENCY ASSESSMENT (0-0-1)(F/S).** Students who have completed or are in their second semester of a Dispute Resolution internship in one area of conflict management practice may take a field and written exam to assess their competence. (Pass/Fail). PREREQ: PERM/PROGRAM DIRECTOR.

## Ecology — see Department of Biological Sciences

# Department of Early and Special Education

*College of Education*

Education Building, Room 218 Phone: (208) 426-2814
http://education.boisestate.edu/spedecs/ Fax: (208) 426-4006

*Chair and Associate Professor:* Michael Humphrey. *Professors:* Carter, Johnson. *Associate Professors:* Allred, Pool. *Assistant Professors:* Ford, Hampshire.

## Degrees Offered

- Bachelor of Arts in Early and Special Education, Dual Early Childhood Intervention, Elementary Education Certification
- Bachelor of Arts in Early and Special Education, Dual Special Education, Early Childhood Intervention Certification
- Bachelor of Arts in Early and Special Education, Dual Special Education, Elementary Education Certification

## 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 three program options culminating in the B.A. in Early and Special Education degree. After completing the B.A. degree, students will also receive an institutional recommendation for teaching certification in the areas targeted in their specific degree option.

The Dual Special Education, Elementary Education Certification option is designed to prepare highly qualified special educators with maximum professional flexibility in working in both general and special education settings. This program results in the K-8 Elementary Education Certification as well as the K-12 Idaho Generalist Endorsement on the Standard Exceptional Child Certificate. The Dual Early Childhood Intervention, Elementary Education Certification option is designed for educators with professional interest in both early childhood intervention and elementary education. This program results in an institutional recommendation for both the Blended Early Childhood Education/Early Childhood Special Education Certification and the K-8 Elementary Education Certification. The Dual Special Education, Early Childhood Intervention Certification option is designed for educators with professional interest in special education from birth through 12th grade and in early childhood education from birth through 3rd grade. This program results in the K-12 Idaho Generalist Endorsement on the Standard Exceptional Child Certificate as well as Blended Early Childhood Education/Early Childhood Special Education Certification.

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.

## Admission Requirements

Admission to Teacher Education is required before a student can enroll in most upper-division courses (300- and 400-level) in both Early and Special Education. Basic requirements for admission into Teacher Education include the following:

- Submission of the completed application packet.
- A minimum cumulative GPA of 3.00.
- Successful completion of certain university core courses.
- Successful completion of certain professional education courses.
- Successful admission interview.
- Passing scores on the Praxis I tests in Mathematics and in Writing.

Because of the growing number of applicants to the programs in Early and Special Education, not all applicants can be admitted. Priority in admission is given to these applicants whose university and professional work to date offers the greatest professional promise.

Admission to Professional Year is required before a student can enroll in internship and student teaching experiences. Basic requirements for admission into Professional Year include the following:

- Submission of the completed application packet.
- Senior standing.
- A minimum cumulative GPA of 3.0.
- A minimum GPA of 3.0 in all education courses.
- Passing score on required Praxis II exams.
- Fingerprinting and background check.

For further information on the most current requirements for Admission to Teacher Education and Admission to Professional Year please go to:http://education.boisestate.edu/teachered/.

## Degree Requirements

The Special Education program offers two options culminating in the B.A. in Special Education degree. Option 1, offering dual certification in special education and in elementary education, is designed to prepare highly qualified special educators with maximum professional flexibility in working in both general and special education settings. This program results in K-8 Elementary Education certification as well as the K-12 Idaho Generalist Endorsement on the Standard Exceptional Child Certificate. Option 2 is designed for educators with professional interest in both special education and early childhood/early childhood special education studies. This program results in the K-12 Idaho Generalist Endorsement on the Standard Exceptional Child Certificate as well as Blended Early Childhood Education/Early Childhood Special Education Certification.

| Early and Special Education, Dual Early Childhood Intervention, Elementary Education Certification Bachelor of Arts | |
|---|---|
| Course Number and Title | Credits |
| Foundational Studies Program requirements indicated in **bold**. See page 50 for details and lists of approved courses. | |
| **ENGL 101** Introduction to College Writing | 3 |
| **ENGL 102** Intro to College Writing and Research | 3 |
| **UF 100** Intellectual Foundations | 3 |
| **UF 200** Civic and Ethical Foundations | 3 |
| **DLM** MATH 257 Geometry and Probability for Teachers | 4 |
| **DLN** Natural, Physical, & Applied Sciences course with lab | 4 |
| **DLN** Natural, Physical, and Applied Sciences course | 3-4 |
| **DLV** Visual and Performing Arts | 3 |
| **DLL** Literature and Humanities (ASL 101 recommended) | 3-4 |
| **DLS** ED-BLESL 200 Cultural Diversity in the School | 3 |
| **DLS** ED-CIFS 201 Foundations of Education | 3 |
| ED-CIFS 330 Elementary Social Studies Curriculum & Instruction | 3 |
| ED-CIFS 331 Elementary Mathematics Curriculum & Instruction | 3 |
| ED-CIFS 332 Elementary Classroom Learning Environments | 3 |
| ED-CIFS 333 Elementary Science Curriculum & Instruction or ENGR 385 Science Methods through Engineering | 3-4 |
| ED-CIFS 459 Professional Year I | 2 |
| ED-CIFS 461 Professional Year II: Teaching Experience in Elementary Education | 6 |
| ED-LLC 340 Idaho Comprehensive Literacy | 4 |
| ED-LLC 345 Writing Process and Assessment for K-8 Classrooms | 3 |
| **CID** ED-LLC 440 Content Area Language Arts: K-8 | 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 ECE/ECSE Methods I | 3 |
| ED-ESP 326 Natural Environments, Birth to Three: ECE/ECSE | 3 |
| ED-ESP 327 EI/ECSE Assessment | 3 |
| ED-ESP 328 ECE/ECSE Methods II | 3 |
| ED-ESP 329 Behavior Support in Early Childhood | 3 |
| ED-ESP 463 Teaching Experience in Preschool Programs: ECE/ECSE | 6 |
| ED-ESP 464 Birth to Three Practicum | 2 |
| **FF** ED-ESP 470 Teaching and Reflection | 1 |
| KINES 305 Adapted Physical Education (recommended) or KINES 355 Elementary School Health & PE Curriculum & Instruction | 3 |
| MATH 157 Structure of Arithmetic for Teachers | 4 |
| Electives to total 120 | 1-3 |
| *Total* | 120 |

| Early and Special Education, Dual Special Education, Early Childhood Intervention Certification Bachelor of Arts | |
|---|---|
| *Course Number and Title* | *Credits* |
| Foundational Studies Program requirements indicated in **bold**. See page 50 for details and lists of approved courses. | |
| **ENGL 101** Introduction to College Writing | 3 |
| **ENGL 102** Intro to College Writing and Research | 3 |
| **UF 100** Intellectual Foundations | 3 |
| **UF 200** Civic and Ethical Foundations | 3 |
| **DLM** MATH 257 Geometry and Probability for Teachers | 4 |
| **DLN** Natural, Physical, & Applied Sciences course with lab | 4 |
| **DLN** Natural, Physical, and Applied Sciences course | 3-4 |
| **DLV** Visual and Performing Arts | 3 |
| **DLL** Literature and Humanities (ASL 101 recommended) | 3-4 |
| **DLS** ED-LLC 200 Cultural Diversity in the School | 3 |
| **DLS** ED-CIFS 201 Foundations of Education | 3 |
| ED-LLC 340 Idaho Comprehensive Literacy | 4 |
| **CID** ED-LLC 440 Content Area Language Arts: K-8 | 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 ECE/ECSE Methods I | 3 |
| ED-ESP 326 Natural Environments, Birth to Three: ECE/ECSE | 3 |
| ED-ESP 327 EI/ECSE Assessment | 3 |
| ED-ESP 328 ECE/ECSE Methods II | 3 |
| ED-ESP 329 Behavior Support in Early Childhood or | 3 |
| ED-ESP 345 Positive Behavior Intervention and Support | 3 |
| ED-ESP 330 Diagnostic Assessment in Special Education | 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 Severe Disabilities | 3 |
| ED-ESP 459 Special Education Practicum | 2 |
| ED-ESP 460 Special Education at the Secondary Level | 3 |
| ED-ESP 463 Teaching Experience in Preschool Programs: ECE/ECSE | 6 |
| ED-ESP 464 Birth to Three Practicum | 2 |
| ED-ESP 467 Teaching Experience in Special Education | 6 |
| **FF** ED-ESP 470 Teaching and Reflection | 1 |
| KINES 305 Adapted Physical Education (recommended) or KINES 355 Elementary School Health & PE Curriculum & Instruction | 3 |
| MATH 157 Structure of Arithmetic for Teachers | 4 |
| Electives to total 120 | 4-5 |
| *Total* | 120 |

| Early and Special Education, Dual Special Education, Elementary Education Certification Bachelor of Arts | |
|---|---|
| *Course Number and Title* | *Credits* |
| Foundational Studies Program requirements indicated in **bold**. See page 50 for details and lists of approved courses. | |
| **ENGL 101** Introduction to College Writing | 3 |
| **ENGL 102** Intro to College Writing and Research | 3 |
| **UF 100** Intellectual Foundations | 3 |
| **UF 200** Civic and Ethical Foundations | 3 |
| **DLM** MATH 257 Geometry and Probability for Teachers | 4 |
| **DLN** Natural, Physical, & Applied Sciences course with lab | 4 |
| **DLN** Natural, Physical, and Applied Sciences course | 3-4 |
| **DLV** Visual and Performing Arts | 3 |
| **DLL** Literature and Humanities (ASL 101 recommended) | 3-4 |
| **DLS** ED-LLC 200 Cultural Diversity in the School | 3 |
| **DLS** ED-CIFS 201 Foundations of Education | 3 |
| ED-CIFS 203 Child and Educational Psychology | 3 |
| ED-CIFS 330 Elementary Social Studies Curriculum & Instruction | 3 |
| ED-CIFS 331 Elementary Mathematics Curriculum & Instruction | 3 |
| ED-CIFS 332 Elementary Classroom Learning Environments | 3 |
| ED-CIFS 333 Elementary Science Curriculum & Instruction or ENGR 385 Science Methods through Engineering | 3-4 |
| ED-CIFS 459 Professional Year I | 2 |
| ED-CIFS 461 Professional Year II: Teaching Experience in Elementary Education | 6 |
| ED-LLC 340 Idaho Comprehensive Literacy | 4 |
| ED-LLC 345 Writing Process and Assessment | 3 |
| **CID** ED-LLC 440 Content Area Language Arts: K-8 | 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 330 Diagnostic Assessment in Special Education | 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 Severe Disabilities | 3 |
| ED-ESP 459 Special Education Practicum | 2 |
| ED-ESP 460 Special Education at the Secondary Level | 3 |
| ED-ESP 467 Teaching Experience in Special Education | 6 |
| **FF** ED-ESP 470 Teaching and Reflection | 1 |
| KINES 305 Adapted Physical Education (recommended) or KINES 355 Elementary School Health & PE Curriculum & Instruction | 3 |
| MATH 157 Structure of Arithmetic for Teachers | 4 |
| PSYC 101 General Psychology | 3 |
| Electives to total 120 | 4-5 |
| *Total* | 120 |

## Course Offerings

**See page 63 for a definition of the course-numbering system.**

**ED-ESP – Early and Special Education**

**Lower Division**

**ED-ESP 221 FOUNDATIONS OF PROFESSIONAL PRACTICES: ECE/ECSE (2-3-3)(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. Weekly classroom fieldwork required.

**ED-ESP 223 CHILD GROWTH AND DEVELOPMENT (3-0-3)(S).** Growth and development from the prenatal stages through school age, addressing physical, cognitive, communication, adaptive, social, and emotional domains. Emphasis on both the impact of cultural diversity on the lives of children and families as well as individual differences in the study of human development. Includes applied assignments and experiences.

**ED-ESP 250 EXCEPTIONALITY IN THE SCHOOLS (2-3-3)(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. Includes weekly field experience.

**ED-ESP 255 EDUCATIONAL AND ASSISTIVE TECHNOLOGY (3-0-3)(S).** Word processing; spreadsheets; presentation software; electronic communications; Internet use; and assistive, adaptive, and rehabilitative devices and technologies, including Augmentative and Alternative Communication (AAC). PRE/COREQ: ED-ESP 250 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 PERM/INST.

**Upper Division**

**ED-ESP 321 FAMILY AND COMMUNITY RELATIONS: ECE/ECSE (3-0-3)(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. PREREQ: Admission to Teacher Education or PERM/INST.

**ED-ESP 322 ECE/ECSE METHODS I (2-3-3)(F).** Application of a linked system of assessment, goal development, intervention and evaluation. Focus on curriculum, assessment, and goal development. Weekly classroom fieldwork required. PREREQ: Admission to Teacher Education.

**ED-ESP 326 NATURAL ENVIRONMENTS, BIRTH TO THREE: ECE/ECSE (3-0-3)(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. PREREQ: Admission to Professional Year. COREQ: ED-ESP 464.

**ED-ESP 327 EI/ECSE ASSESSMENT (3-0-3)(F).** 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 PERM/INST.

**ED-ESP 328 ECE/ECSE METHODS II (2-3-3)(S).** Application of a linked system of assessment, goal development, intervention and evaluation. Focus on developmentally appropriate and functionally relevant curriculum, teaching strategies, and evaluation. Weekly classroom fieldwork required. PREREQ: ED-ESP 322 and Admission to Teacher Education.

**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 or PERM/INST.

**ED-ESP 330 DIAGNOSTIC ASSESSMENT IN SPECIAL EDUCATION (3-0-3)(S).** Standardized assessments used in eligibility determination and program planning for students with disabilities. Administration, scoring, and interpretation of academic achievement, intellectual, and associated diagnostic tests, including issues of cultural bias and disproportionality. PREREQ: Admission to Teacher Education.

**ED-ESP 332 LANGUAGE ARTS FOR STUDENTS WITH DISABILITIES (3-0-3)(F).** 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. PREREQ: Admission to Teacher Education.

**ED-ESP 333 MATHEMATICS FOR STUDENTS WITH DISABILITIES (3-0-3)(S).** Research-based explicit instruction in mathematics for students with disabilities. Response to Intervention (RTI) and integrated formative assessment and interventions in mathematics. PREREQ: Admission to Teacher Education.

**ED-ESP 345 POSITIVE BEHAVIOR INTERVENTION AND SUPPORT (2-3-3)(S).** Development of research-based positive behavioral interventions and supports for students with behavioral/emotional disabilities, including functional and applied behavioral analysis in a weekly school field experience. PREREQ: Admission to Teacher Education.

**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. COREQ: ED-CIFS 301 (except for Art Education majors) and ED-CIFS 302.

**ED-ESP 358 STUDENTS WITH SEVERE DISABILITIES (3-0-3)(F).** Development of individualized curricula and instruction for students with severe disabilities in specialized and inclusive education settings. PREREQ: Admission to Teacher Education.

**ED-ESP 458 AUTISM SPECTRUM DISORDER (3-0-3)(F).** Contemporary perspectives on Autism Spectrum Disorder, including historical context, definitions, identification, characteristics, and social and educational interventions and services. PREREQ: Admission to Teacher Education or PERM/INST.

**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.

**ED-ESP 463 TEACHING EXPERIENCE IN PRESCHOOL PROGRAMS: ECE/ECSE (number of credits varies)(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 (number of credits varies) (S).** Infant/toddler program experience for students pursuing the Early Childhood/Early Childhood Special Education Blended certificate. Responsibilities in a natural environment, center or home, for infants and toddlers with and without disabilities including family contact. If passed, may be repeated, maximum seven credits. (Pass/Fail.) PREREQ: Admission to Professional Year. COREQ: ED-ESP 326.

**ED-ESP 467 TEACHING EXPERIENCE IN SPECIAL EDUCATION (number of 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 seven 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-ESP 463 or ED-ESP 467.

# Department of Economics

*College of Business and Economics*

Micron Business and Economics Building, Room 3244 Phone: (208) 426-3351
http://cobe.boisestate.edu/economics/
E-mail: econdept@boisestate.edu

*Chair and Professor:* Zeynep Hansen. *Professor:* Hansen, Loucks, Mooney, Twight. *Associate Professors:* Black, Islam, Lowe. *Assistant Professor:* Fragkias. *Visiting Professor:* Holley. *Lecturer:* Church, Martin.

## 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
- 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 and the behavior of industries and individual firms, as well as 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 prized. A degree in economics is excellent preparation for law school, for M.B.A. 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, which includes economics and elective courses in social sciences or mathematics (quantitative option); 2) a bachelor of business administration, which includes economics and standard business courses. Students 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 B.A. in Economics; B.A. in Economics, Quantitative Emphasis and B.A. in Economics, Social Science, Secondary Education Emphasis) must be admitted to the college. Admission to COBE is required before a student may enroll in most upper-division business and economics courses. See page 13 for exceptions to these requirements.

Admission to COBE is competitive and based on various academic criteria such as overall GPA, performance in gateway courses, and other business and economics courses. Meeting the criteria does not guarantee admission. Please see the COBE advising website: http://cobe.boisestate.edu/studentadvising/ to obtain specific information about the application process and application deadlines.

To be considered for admission, students must:

- Complete each of the following gateway courses with a grade of C- or better:
  - ACCT 205 Introduction to Financial Accounting
  - ACCT 206 Introduction to Managerial Accounting
  - BUSCOM 201 Business Communication
  - BUSSTAT 207 Statistical Techniques for Decision Making I
  - ECON 201 Principles of Macroeconomics
  - ECON 202 Principles of Microeconomics
  - GENBUS 101 Business for the New Generation
  - ITM 104 Operating Systems and Word Processing Topics
  - ITM 105 Spreadsheet Topics
  - MATH 160 Survey of Calculus
- Meet minimum cumulative GPA requirement of 2.5. A minimum cumulative GPA of 2.5 must be maintained in order to remain admitted to COBE.

## Degree Requirements

Those students planning on graduate study in economics or pursuing applied quantitative professional employment should consider a major in BA Economics, Quantitative Emphasis. Those students are recommended to complete in addition to MATH 170 Calculus I, MATH 175 Calculus II, MATH 275 Multivariable and Vector Calculus, MATH 301 Introduction to Linear Algebra, MATH 361 Probability and Statistics, other upper-division mathematics courses such as MATH 314 Foundations of Analysis, MATH 333 Differential Equations with Matrix Theory, and MATH 365 Introduction to Computational Mathematics.

| Economics<br>Bachelor of Arts | |
|---|---|
| *Course Number and Title* | *Credits* |
| Foundational Studies Program requirements indicated in **bold**. See page 50 for details and lists of approved courses. | |
| **ENGL 101** Introduction to College Writing | 3 |
| **ENGL 102** Intro to College Writing and Research | 3 |
| **UF 100** Intellectual Foundations | 3 |
| **UF 200** Civic and Ethical Foundations | 3 |
| **DLM** MATH 160 Survey of Calculus or MATH 170 Calculus I | 4 |
| **DLN** Natural, Physical, & Applied Sciences course with lab | 4 |
| **DLN** Natural, Physical, and Applied Sciences course | 3-4 |
| **DLV** Visual and Performing Arts | 3 |
| **DLL** Literature and Humanities | 3-4 |
| **DLS** ECON 201 Principles of Macroeconomics | 3 |
| **DLS** Social Sciences course in a second field | 3 |
| Statistics sequence: BUSSTAT 207 and 208 or MATH 175 and 361 | 6-7 |
| ECON 202 Principles of Microeconomics | 3 |
| ECON 303 Intermediate Microeconomics | 3 |
| ECON 305 Intermediate Macroeconomics | 3 |
| **CID** ECON 421 Quantitative Methods in Economics | 3 |
| **FF** ECON 422 Econometrics | 3 |
| Upper-division economics courses | 15 |
| Upper-division mathematics, business, or environmental studies courses or social science courses selected from geography, history, political science, psychology, and sociology. | 15 |
| Electives to total 120 credits | 31-34 |
| *Total* | 120 |

| Business Economics<br>Bachelor of Business Administration | |
|---|---|
| *Course Number and Title* | *Credits* |
| Foundational Studies Program requirements indicated in **bold**. See page 50 for details and lists of approved courses. | |
| **ENGL 101** Introduction to College Writing | 3 |
| **ENGL 102** Intro to College Writing and Research | 3 |
| **UF 100** Intellectual Foundations | 3 |
| **UF 200** Civic and Ethical Foundations | 3 |
| **DLM** MATH 160 Survey of Calculus or MATH 170 Calculus I | 4 |
| **DLN** Natural, Physical, & Applied Sciences course with lab | 4 |
| **DLN** Natural, Physical, and Applied Sciences course | 3-4 |
| *Continued* | |

| *Business Economics continued* | |
|---|---|
| **DLV** Visual and Performing Arts | 3 |
| **DLL** Literature and Humanities | 3-4 |
| **DLS** ECON 201 Principles of Macroeconomics | 3 |
| **DLS** Social Sciences course in a second field | 3 |
| ACCT 205 Introduction to Financial Accounting | 3 |
| ACCT 206 Introduction to Managerial Accounting | 3 |
| **CID** BUSCOM 201 Business Communication | 3 |
| BUSSTAT 207-208 Statistical Techniques for Decision Making I, II | 6 |
| ECON 202 Principles of Microeconomics | 3 |
| ECON 303 Intermediate Microeconomics | 3 |
| ECON 305 Intermediate Macroeconomics | 3 |
| ECON 421 Quantitative Methods in Economics | 3 |
| ECON 422 Econometrics | 3 |
| Upper-division economics electives | 15 |
| FINAN 303 Principles of Finance | 3 |
| GENBUS 101 Business for the New Generation | 3 |
| GENBUS 202 The Legal Environment of Business or GENBUS 304 Law For Accountants I | 3 |
| **FF** GENBUS 450 Business Policies | 3 |
| Successful completion of the COBE Computer Placement Exam for: Word Processing and Spreadsheets, or ITM 104 Operating Systems & Word Processing Topics and ITM 105 Spreadsheet Topics | 0-2 |
| ITM 310 Business Intelligence or ACCT 350 Accounting Information Systems | 3 |
| MGMT 301 Leadership Skills | 3 |
| MKTG 301 Principles of Marketing | 3 |
| SCM 345 Principles of Operations Management | 3 |
| Electives to total 120 credits | 12-16 |
| *Total* | 120 |

## Economics, Quantitative Emphasis Bachelor of Arts

| *Course Number and Title* | *Credits* |
|---|---|
| Foundational Studies Program requirements indicated in **bold**. See page 50 for details and lists of approved courses. | |
| **ENGL 101** Introduction to College Writing | 3 |
| **ENGL 102** Intro to College Writing and Research | 3 |
| **UF 100** Intellectual Foundations | 3 |
| **UF 200** Civic and Ethical Foundations | 3 |
| **DLM** MATH 170 Calculus I | 4 |
| **DLN** Natural, Physical, & Applied Sciences course with lab | 4 |
| **DLN** Natural, Physical, and Applied Sciences course | 3-4 |
| **DLV** Visual and Performing Arts | 3 |
| **DLL** Literature and Humanities | 3-4 |
| **DLS** ECON 201 Principles of Macroeconomics | 3 |
| **DLS** Social Sciences course in a second field | 3 |
| ECON 202 Principles of Microeconomics | 3 |
| *Continued* | |

| *Economics, Quantitative Emphasis continued* | |
|---|---|
| ECON 303 Intermediate Microeconomics | 3 |
| ECON 305 Intermediate Macroeconomics | 3 |
| **CID** ECON 421 Quantitative Methods in Economics | 3 |
| **FF** ECON 422 Econometrics | 3 |
| Upper-division economics courses | 15 |
| 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 |
| Upper-division electives to total 40 credits | 1 |
| Electives to total 120 credits | 32-34 |
| *Total* | 120 |

## Economics, Social Science, Secondary Education Bachelor of Arts

| *Course Number and Title* | *Credits* |
|---|---|
| Foundational Studies Program requirements indicated in **bold**. See page 50 for details and lists of approved courses. | |
| **ENGL 101** Introduction to College Writing | 3 |
| **ENGL 102** Intro to College Writing and Research | 3 |
| **UF 100** Intellectual Foundations | 3 |
| **UF 200** Civic and Ethical Foundations | 3 |
| **DLM** MATH 160 Survey of Calculus or MATH 170 Calculus I | 4 |
| **DLN** Natural, Physical, & Applied Sciences course with lab | 4 |
| **DLN** Natural, Physical, and Applied Sciences course | 3-4 |
| **DLV** Visual and Performing Arts | 3 |
| **DLL** Literature and Humanities | 3-4 |
| **DLS** ECON 201 Principles of Macroeconomics | 3 |
| **DLS** ED-CIFS 201 Foundations of Education | 3 |
| ECON 202 Principles of Microeconomics | 3 |
| ECON 303 Intermediate Microeconomics | 3 |
| ECON 305 Intermediate Macroeconomics | 3 |
| **CID** ECON 421 Quantitative Methods in Economics | 3 |
| **FF** ECON 422 Econometrics | 3 |
| Upper-division economics electives | 12 |
| 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. | |
| *Continued* | |

| *Economics, Social Science, Secondary Education continued* | |
|---|---|
| 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 |
| Electives to total 120 credits | 1-3 |
| *Total* | 120 |

| Economics Teaching Endorsement | |
|---|---|
| *Course Number and Title* | *Credits* |
| 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. | |

Any Boise State baccalaureate student may earn a minor in economics by satisfying the requirements listed below, in addition to the student's major requirements.

| Economics Minor | |
|---|---|
| *Course Number and Title* | *Credits* |
| 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 |

## Course Offerings

**See page 63 for a definition of the course-numbering system.**

**ECON – Economics**

**Lower Division**

**ECON 201 PRINCIPLES OF MACROECONOMICS (3-0-3)(F,S,SU) (DLS).** 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 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) (DLS).** 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 number 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 B.A. Economics major or B.A. Economics, Social Studies, Secondary Education Emphasis major or Economics, Social Science, Secondary Education 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 B.A. Economics major or B.S. 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 B.A. Economics major or B.A. Economics, Social Studies, Secondary Education Emphasis major or Economics, Social Science, Secondary Education Minor, ECON 201.

**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: Admission to COBE or B.A. Economics major or B.A. Economics, Social Science, Secondary Education major or Economics, Social Science, Secondary Education Minor, ECON 201 and ECON 202.

**ECON 315 GLOBAL ECONOMIC DEVELOPMENT (3-0-3)(F/S) (Alternate years).** Economic development within the context of the global economy. Alternative development paradigms and policy prescriptions and the record of successes and failures of developing countries. Problems of transitional post-socialist and post-colonial economies, economic growth, income distribution, resource mobilization, agricultural and industrial development, human resource development, the role of international agencies, and international trade and financial relations. PREREQ: Admission to COBE or B.A. Economics major or B.A. Economics, Social Science, Secondary Education major or Economics, Social Science, Secondary Education Minor, ECON 201 and ECON 202.

**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 B.A. Economics major or B.A. Economics, Social Science, Secondary Education major or Economics, Social Science, Secondary Education Minor, ECON 201 and ECON 202.

**ECON 321 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: Admission to COBE or B.A. Economics major or B.A. Economics, Social Science, Secondary Education major or Economics, Social Science, Secondary Education Minor, ECON 201 and ECON 202.

**ECON 322 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 325 RADICAL ECONOMICS (3-0-3)(F).** Analysis of radical political-economic thought and its applications to the study of socioeconomic problems. Topics include Marxian socialist economic theory, libertarianism, anarchist theory, evolutionary economic theory, and other radical models. Issues such as imperialism, economic and social inequality, and alienation will be

considered. PREREQ: Admission to COBE or B.A. Economics major or B.A. Economics, Social Science, Secondary Education major or Economics, Social Science, Secondary Education Minor, 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: Admission to COBE or B.A. Economics major or B.A. Economics, Social Science, Secondary Education major or Economics, Social Science, Secondary Education Minor, ECON 201 and ECON 202.

**ECON 333 NATURAL RESOURCE ECONOMICS (3-0-3)(F).** 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 350 (HIST 350) UNITED STATES ECONOMIC HISTORY (3-0-3) (F).** 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. May be taken for either ECON or HIST credit, but not both. PREREQ: Admission to COBE or B.A. Economics major or B.A. Economics, Social Science, Secondary Education major or Economics, Social Science, Secondary Education Minor, ECON 201 and ECON 202.

**ECON 410 (POLS 410) PUBLIC FINANCE (3-0-3)(F).** 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: Admission to COBE or B.A. Economics major or B.A. Economics, Social Science, Secondary Education major or Health Science Studies major, ECON 201 and ECON 202 or PERM/INST.

**ECON 421 QUANTITATIVE METHODS IN ECONOMICS (3-0-3)(F) (CID).** 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. May be taken for graduate credit. PREREQ: Admission to COBE or B.A. Economics major or B.S. Business and Economic Analytics major or Economics minor, ECON 201, ECON 202, MATH 160 or equivalent, and BUSSTAT 207 or equivalent.

**ECON 422 ECONOMETRICS (3-0-3)(S)(FF).** 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 B.A. Economics major or B.S. Business and Economic Analytics major or Economics minor, ECON 421.

**ECON 440 HEALTH ECONOMICS (3-0-3)(S).** 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: Admission to COBE, B.A. Economics major or Economics minor or Health Science Studies major, ECON 201 and ECON 202 or PERM/INST.

**ECON 480 SEMINAR IN INTERNATIONAL ECONOMICS (3-0-3)(F/S).** An in-depth study of a particular subject of restricted scope in international economics. Students will survey the literature, discuss assigned topics, and prepare and present research papers. Consult the Boise State online class search for specific selection offered. Seminar may be repeated. PREREQ: Admission to COBE or B.A. Economics major or B.A. Economics, Social Studies, Secondary Education Emphasis major or Economics, Social Science, Secondary Education Minor, ECON 201 and ECON 202.

**ECON 493 ECONOMICS INTERNSHIP (V-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 B.A. Economics major or B.A. Economics, Social Science, Secondary Education major or Economics, Social Science, Secondary Education Minor, ECON 303, ECON 305, BUSSTAT 207, and PERM/INST.

# Department of Educational Technology

*College of Education*

Education Building, Room 331 Phone: (208) 426-1966
E-mail edtech@boisestate.edu Fax: (208) 426-1451

*Chair:* Brett E. Shelton. *Associate Chair:* Chareen Snelson. *Faculty:* Baek, Ching, Friesen, Haskell, Hsu, Hung, Lowenthal, Mesler, Perkins, Rice, Schroeder, Trespalacios, 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 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) (DLS).** Engages students in developing strategies for digital spaces. Develops 21st Century skills including creativity, critical thinking, digital communication and collaboration, information literacy, digital citizenship, and personal and social responsibilities.

**Upper Division**

**EDTECH 331 INTEGRATING CURRICULUM USING SOFTWARE AND TOOLS AND COMPUTER PERIPHERALS (3-0-3)(F).** Integrating instruction of language arts, mathematics, science, and social studies curricula using tool software, computer assisted instruction and tools such as data collection hardware and software. PREREQ: Admission to Teacher Education and EDTECH 202.

**EDTECH 332 INTEGRATING INTERNET RESOURCES INTO THE CURRICULUM (3-0-3)(S).** Internet research, storyboarding, and designing web pages to produce educational materials for classroom uses. PREREQ: Admission to Teacher Education and EDTECH 202.

**EDTECH 333 INTEGRATING CURRICULUM USING VISUAL TECHNOLOGY (3-0-3)(S).** Inquiry and project-based learning using photographing, scanning, drawing, editing, and manipulating images with a variety of software applications and use digital images in project work, student publishing, preparation of teaching materials, and record keeping. PREREQ: Admission to Teacher Education and EDTECH 202.

**EDTECH 356 VIDEO TECHNOLOGY: CLASSROOM APPLICATION (1-2-2)(S).** A competency based video technology course designed to prepare teachers to use video technology in the classroom. Students will master a variety of classroom video applications such as production of video essays, reports, tests, demonstrations, and magazines. Lab fee required. PREREQ: Admission to teacher education.

**EDTECH 363 FIELD EXPERIENCE: IMPLEMENTING TECHNOLOGY INTO THE CLASSROOM (0-3-1)(F/S).** Applying software, visual technology, Internet resources and other computer technology skills and techniques in a classroom setting. COREQ: EDTECH 331 or EDTECH 332 or EDTECH 333.

**EDTECH 408 INTEGRATING TECHNOLOGY INTO THE CLASSROOM (3-0-3)(F/S).** Computer hardware and operating systems in networked computing environments found in educational settings; use advanced features of spreadsheets and relational database management systems to develop classroom strategies and lessons. PREREQ: EDTECH 202, or passing score on the Educational Technology Assessment.

# Department of Electrical and Computer Engineering

*College of Engineering*

Engineering Building, Room 240
http://coen.boisestate.edu/ece/
E-mail: ece@boisestate.edu
Phone: (208) 426-5788
Fax: (208) 426-2470

*Interim Chair and Associate Professor:* Nader Rafla. *Professors:* Barney Smith, Knowlton, Loo, Welch. *Associate Professors:* Ahmed-Zaid, Browning, Campbell, Chiasson, Kuang, Mitkova, Smith. *Assistant Professors:* Cantley, Chen, Salzman, Saxena. *Research Professor:* Yurke. *Lecturers:* Hay, Planting.

## Degrees Offered

- Bachelor of Science in Electrical Engineering
  - IDoTeach Secondary Education Emphasis
- Minor in Electrical Engineering

## Program Statement

Today's electrical engineer must be able to find solutions to new complex technical problems. S/he 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 offers five major areas of concentration:

- semiconductor processing
- integrated circuit design
- communication/signal processing systems
- computer engineering
- power and energy systems

A number of laboratory courses provide students with significant hands-on experience.

The B.S. in Electrical Engineering is accredited by the Engineering Accreditation Commission of ABET, 111 Market Place, Suite 1050, Baltimore, MD 21202-4012, (410) 347-7700.

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 http://idoteach.boisestate.edu. Students must meet and maintain all knowledge, skill, and disposition requirements to remain in the program.

## Educational Objectives

Graduates of the Electrical Engineering Program will be expected to:

1. demonstrate technical competence in the principles and practice of electrical engineering.
2. exhibit interpersonal and organizational skills which will contribute to their overall professional success.
3. practice electrical engineering using the highest standards of ethical and professional responsibility.
4. strive for continuous professional development by improving knowledge and skills appropriate to each chosen career path and by managing increasingly complex contemporary issues, products, and systems.

## Engineering Design in Electrical Engineering

Design is central to the practice of engineering. The Department requires each student to develop design skills and knowledge. The curriculum has been carefully formulated to emphasize: 1) design as a process in the freshman year; 2) solving open-ended problems during the sophomore year; 3) component and system design in the junior year; and 4) the capstone design project in the senior year.

## Degree Requirements

| Electrical Engineering<br>Bachelor of Science | |
|---|---|
| *Course Number and Title* | *Credits* |
| Foundational Studies Program requirements indicated in **bold**. See page 50 for details and lists of approved courses. | |
| **ENGL 101** Introduction to College Writing | 3 |
| **ENGL 102** Intro to College Writing and Research | 3 |
| **UF 100** Intellectual Foundations | 3 |
| **UF 200** Civic and Ethical Foundations | 3 |
| **DLM** MATH 170 Calculus I | 4 |
| **DLN** CHEM 111, 111L General Chemistry I with Lab | 4 |
| **DLN** ENGR 120 Introduction to Engineering or<br>ENGR 130 Introduction to Engineering Applications | 3 |
| **DLV** Visual and Performing Arts | 3 |
| **DLL** Literature and Humanities or<br>**DLL** STEM-ED 220 Perspectives on Science and Mathematics (Secondary Education Emphasis) | 3-4 |
| **DLS** ENGL 202 Technical Communication | 3 |
| **DLS** Social Sciences course in a second field or<br>**DLS** ED-CIFS 201 Foundations of Education (Secondary Education Emphasis) | 3 |
| CS 121, 121L Computer Science I and lab | 4 |
| CS 221 Computer Science II | 3 |
| 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 300 Electromagnetic 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 |
| **CID** ECE 380, 380L Electrical Engineering Practice & Lab | 3 |
| ECE 480 Senior Design Project I | 3 |
| **FF** ECE 482 Senior Design Project II | 3 |
| ENGR 245 Introduction to Materials Science & Engineering | 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 |
| PHYS 211, 211L-212, 212L Physics I & II with Calculus & Labs | 10 |
| Electrical Engineering electives* | 12 |
| *Continued* | |

| *Electrical Engineering continued* | |
|---|---|
| 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 B.S. in Electrical Engineering with an emphasis in Secondary Education. | |
| Upper-division electives to total 40 credits | 0-6 |
| *Total* | 126-127 |
| **IDoTeach 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 210 Knowing & Learning in Mathematics & Science | 3 |
| STEM-ED 310 Classroom Interactions | 3 |
| STEM-ED 480 Apprentice Teaching | 6 |
| *Total* | 140 |
| This emphasis also needs to complete ED-CIFS 201, STEM-ED 220 and STEM-ED 410. | |
| *Electrical engineering and technical electives must be approved by the student's advisor. | |

| Electrical Engineering Minor | |
|---|---|
| *Course Number and Title* | *Credits* |
| 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 of the following:<br>ECE 300 Electromagnetic Theory<br>ECE 310, 310L Microelectonic 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 |
| *Total* | 20-23 |

## Course Offerings

**See page 63 for a definition of the course-numbering system.**

**ECE – Electrical and Computer Engineering**

**Lower Division**

**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. COREQ: ENGR 120 or ENGR 130. 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.

**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.

**Upper Division**

**ECE 300 ELECTROMAGNETIC 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 electromagnetic radiation. 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 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 320L DEVICE CHARACTERIZATION LAB (0-3-1)(S).** Measurement of PN junction, BJT, and MOSFET I-V and C-V characteristics by on-wafer probing. SPICE model parameter extraction. COREQ: ECE 320.

**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.

**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 340 (MSE 310) ELECTRICAL PROPERTIES OF MATERIALS (3-0-3)(F).** 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 ECE or MSE credit, but not both. PREREQ: ENGR 245, MATH 333, and PHYS 309 or ECE 212.

**ECE 350 SIGNALS AND SYSTEMS (3-0-3)(F,S).** Signal and system properties. Fourier transforms. Basics of amplitude modulation. Sampling and aliasing. Z-transforms and digital filters. Nondeterministic signals. 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).** 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, PHYS 212.

**ECE 370 INDUSTRIAL POWER DISTRIBUTION (3-0-3)(S).** Codes and standards, three-phase and single-phase system planning and design, voltage considerations, equipment protection, grounding design, power switching and motor control, lighting design, substation design, PLC system architecture design, and programming, equipment specification, construction drawings and specifications. PREREQ: ECE 212.

**ECE 380 ELECTRICAL ENGINEERING PRACTICE (2-0-2)(S)(CID).** 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 (or ENGL 112), ENGL 202 and ECE 212. COREQ: ECE 310 and ECE 380L.

**ECE 380L ELECTRICAL ENGINEERING PRACTICE LAB (0-3-1)(S) (CID).** Laboratory work on Electrical Engineering Practice. PREREQ: ENGL 102 (or ENGL 112), COREQ: ECE 380.

**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 410L MOSIS CHIP EVALUATION (0-3-1)(F).** Laboratory to evaluate the CMOS integrated circuit chips designed in ECE 410 and fabricated through MOSIS (metal-oxide- semiconductor implementation system). PREREQ: ECE 410.

**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 410.

**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).** MOSFET device physics, scaling rules, analytical short channel models, hot-electron effects/modeling, LDD design, gate oxide breakdown and reliability, TDDB, GIDL, channel mobility, electromigration, BSIM3 device modeling, 2-D TCAD device simulation. PREREQ: ECE 320.

**ECE 420L ADVANCED DEVICE CHARACTERIZATION LAB (0-3-1) (F/S).** Advanced measurement and parameter extraction techniques for MOSFETs. High frequency CV, Quasistatic CV, Charge-Pumping measurements. COREQ: ECE 420.

**ECE 421 ADVANCED SEMICONDUCTOR DEVICES (3-0-3)(F/S).** Study of advanced semiconductor devices, particularly photonic, microwave, power, and high temperature/radiation resistant devices, including physics and applications. TCAD simulation and modeling of these devices will be included. PREREQ: ECE 420.

**ECE 422 MICROWAVE SEMICONDUCTOR DEVICES (3-0-3)(F/S).** Covers the various aspects of design, fabrication, and characterization of ultra-low-power, RF-CMOS devices, on-wafer microwave measurement techniques and calibration techniques, short-channel CMOS device physics, parasitic CMOS device elements, advanced small-signal build and SOI RF-CMOS device models, and s-parameter device evaluation methods. PREREQ: ECE 420.

**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. Applications include design of synchronous state machines, asynchronous digital systems, and simple digital control circuits using hardware descriptive languages for field programmable gate arrays and complex programmable logic. PREREQ: ECE 230 and CS 121.

**ECE 430L DIGITAL HARDWARE DESIGN LAB (0-3-1)(F/S).** Lab work using UNIX-based CAD tools for hardware design of digital systems employing FPGAs and CPLDs. COREQ: ECE 430.

**ECE 432 (CS 441) COMPUTER ARCHITECTURE (3-0-3)(S).** Structure of computer systems using processors, memories, 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. Applications of Hardware Description Languages (HDL) in the design of computer systems. 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)(F).** Comparison of commercially available microcontrollers and their use in embedded communications and control applications. Power consumption, software development, interprocessor communication, and interfacing with sensors, actuators, and input/output devices. Use of microcontroller cores implemented in programmable logic devices as an alternative to hardwired microcontrollers. An embedded system project is designed and built. PREREQ: ECE 330.

**ECE 434 COMPUTER NETWORKS (3-0-3)(F/S).** Concepts of computer networks and architectures. Network topology, connectivity analysis, delay analysis, local access design. Physical layer, data link layer, higher layer protocols. Study of networks as distributed embedded systems. Routing, flow control, congestion control. Local area networks. PREREQ: ECE 330.

**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 310. 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 442L PHOTOLITHOGRAPHY LAB (0-3-1)(S).** Cleanroom lab experience accompanying ECE 442, utilizing a projection-printing wafer stepper, photoresist wafer track, SEM, and optical metrology equipment. COREQ: ECE 442.

**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. 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)(S)(Alternate years).** 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 recognition and clustering. 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)(S).** Time and frequency domain analysis and design of feedback systems using classical and state space methods. Observability, controllability, pole placement, observers, and discrete time. Multivariable and optimal methods are introduced. May be taken for ECE or ME credit, but not both. PREREQ: ECE 360 or ME 360.

**ECE 464 ROBOTICS AND AUTOMATED SYSTEMS (3-0-3)(F/S).** An introduction to robotics with emphasis on automated systems applications. Topics include: basic components of robotic systems; selection of coordinate frames; homogeneous transformations; solutions to kinematic equations; velocity and force/torque manipulator dynamics; digital simulation of manipulator motion; motion planning; actuators of robots; sensors of robots; obstacle avoidance; and control design. PREREQ: ECE 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 470L ELECTRIC MACHINES LAB (0-3-1)(F).** Lab work on electric machines. COREQ: ECE 470.

**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 472L POWER ELECTRONICS LAB (0-3-1)(F).** Lab work on power electronic circuits and devices. COREQ: ECE 472.

**ECE 473 POWER SYSTEM ANALYSIS I (3-0-3)(F).** Three-phase AC systems, generators, transformers, transmission lines, one-line diagrams, perunit system, network calculations, load flow studies, power system operation. PREREQ: ECE 212. COREQ: ECE 300.

**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. 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.

## Elementary Education — see Department of Curriculum, Instruction and Foundational Studies

## Elementary Education, Bilingual/ENL — see Department of Literacy, Language, and Culture

## Elementary Education, TESOL/ENL — see Department of Literacy, Language, and Culture

# Engineering Science

Engineering Building, Room 301 Phone: (208) 426-5983
http://coen.boisestate.edu/ Fax: (208) 426-4466

*Coordinator:* Doug Hagemeier

Engineering Science courses are included as major elements in the program curricula of Civil, Electrical, Material Science and Engineering, Mechanical Engineering and Construction Management. These courses are administered and taught by instructors in the College of Engineering.

## Endorsement Requirements

| Engineering Teaching Endorsement | |
|---|---|
| *Course Number and Title* | *Credits* |
| MATH 170 Calculus I | 4 |
| ENGR 120 Introduction to Engineering or<br>ENGR 130 Introduction to Engineering Applications | 3-4 |
| ECE 210 Introduction to Electric Circuits or<br>ENGR 210 Engineering Statics | 3 |
| Choose one course from the following:<br>ENGR 240 Electrical and Electronic Circuits<br>ENGR 245 Introduction to Materials Science and Engineering<br>ENGR 320/ME 302 Thermodynamics I | 3 |
| Upper-division engineering (CE, ECE, ENGR, ME and MSE) courses | 9 |
| *Total* | 22-23 |
| See Department of Curriculum, Instruction, and Foundational Studies for more information. | |

## Course Offerings

**See page 63 for a definition of the course-numbering system.**

**ENGR – Engineering Science**

**Lower Division**

**ENGR 100 ENERGY FOR SOCIETY (3-0-3)(F/S)(DLN).** 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 101 INTRO TO SUSTAINABLE BUILDING SCIENCE (3-0-3)(F/S)(DLN).** Physics concepts related to the performance of buildings. Factors that impact and contribute to sustainability including building performance, occupant comfort, and resource use. PREREQ: MATH 108.

**ENGR 104 INTRODUCTION TO SCIENTIFIC REASONING (2-3-3)(F/S)(DLN).** This course engages students in a series of scientific problems involving phenomena that cannot be explained with current reasoning. Using small and large group discussions, new lines of reasoning are developed and applied to multiple situations. COREQ: MATH 108.

**ENGR 106 SMARTPHONE ENGINEERING (3-0-3)(F/S)(DLN).** The underlying engineering technologies associated with a smartphone and how it has been put to use is developed in the context of our present technological society with its energy, environmental, social, and political challenges. This is a general interest course having no prerequisite.

**ENGR 108 BICYCLE ENGINEERING (2-3-3)(F/S)(DLN).** Bicycle technology in society and emerging nations. Introduction to engineering design, simple materials, structures and analysis in the context of bicycles. PREREQ: MATH 108 or higher.

**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 120 INTRODUCTION TO ENGINEERING (2-3-3)(F/S)(DLN).** Students use critical thinking and gain design-oriented engineering experiences by working through projects that expose them to the engineering disciplines. Professional skill development includes teamwork, oral and written communication, and professional/ethical responsibility. ENGR 130 may not also be taken for course credit. PREREQ: MATH 147 or MATH 143 and MATH 144, or satisfactory placement score.

**ENGR 130 INTRODUCTION TO ENGINEERING APPLICATIONS (2-4-4)(F/S)(DLN).** Students use critical thinking and gain design-oriented engineering experience by working through projects that expose them to the engineering disciplines. Professional skill development includes teamwork, oral and written communication, and professional/ethical responsibility. Students will experience the satisfaction in solving a client's real-world problem as they apply the engineering design process to design and deliver a solution. ENGR 120 may not also be taken for course credit. PREREQ: MATH 147 or MATH 143 and MATH 144, or satisfactory placement score.

**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 210 ENGINEERING STATICS (3-0-3)(F/S).** Force and moment equilibria applied to engineering systems including structures and machines. Two and three dimensional applications of scalars and vectors, free body diagrams, and methods and procedures of engineering analysis. PREREQ: MATH 170 and PHYS 211.

**ENGR 220 ENGINEERING DYNAMICS (3-0-3)(F/S).** Kinematics and kinetics of particles and rigid bodies using concepts of force and acceleration, working and energy, and impulse and momentum. PREREQ: ENGR 210, MATH 175.

**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: ENGR 120 or ENGR 130, and PHYS 211. COREQ: MATH 333.

**ENGR 245 INTRODUCTION TO MATERIALS SCIENCE AND ENGINEERING (3-0-3)(F/S)(DLN).** 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.

**ENGR 245L MATERIALS SCIENCE AND ENGINEERING LABORATORY (0-3-1)(F,S).** Practical experience in testing and processing of engineering materials, data acquisition, data analysis, and technical communication. COREQ: ENGR 245.

**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.

**Upper Division**

**ENGR 310 STATICS AND MECHANICS OF MATERIALS FOR BUILDING CONSTRUCTION (4-0-4)(F).** 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: MATH 160 or MATH 170. PRE/COREQ: PHYS 111.

**ENGR 320 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, and PHYS 211.

**ENGR 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.

**ENGR 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. COREQ: ENGR 330.

**ENGR 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.

**ENGR 360 ENGINEERING ECONOMY (3-0-3)(SU).** Economic analysis and comparison of engineering alternatives by annual-cost, present-worth, capitalized cost, and rate-of-return methods; income tax considerations. PREREQ: Junior standing.

**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 385 SCIENCE METHODS THROUGH ENGINEERING (3-4-4) (F/S).** Examines elementary science curricula, philosophy, and methodologies through a design-oriented engineering experience. 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: MATH 257.

**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.

**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.

# Department of English

*College of Arts and Sciences*

Liberal Arts Building, Room 228 Phone: (208) 426-3426
www.boisestate.edu/english/ Fax: (208) 426-4373
E-mail: english@boisestate.edu

*Chair and Professor:* Michelle Payne. *Associate Chair, Director of Technical Communication, and Professor:* Roger Munger. *Director of Creative Writing and Professor:* Mitch Wieland. *Director of English Education and Professor:* Bruce Robbins. *Director of English Language Support Programs and Associate Professor:* Gail Shuck. *Director of First-Year Writing Program and Associate Professor:* Heidi Estrem. *Associate Director of First-Year Writing Program and Assistant Professor:* Dawn Shepherd. *Director of Linguistics and Associate Professor:* Gail Shuck. *Director of Literature and Humanities and Associate Professor:* Matthew Hansen. *Director of M.A. in English and Associate Professor:* Tom Hillard. *Director of Rhetoric and Composition and Professor:* Bruce Ballenger. *Director of Writing Center and Associate Professor:* Clyde Moneyhun. *Assistant Director of Writing Center and Lecturer:* Melissa Keith. *Internship Coordinator and Associate Professor:* Jeff Westover. *Undergraduate Advising Coordinator and Lecturer:* Tiffany Hitesman. *Professors:* Corless-Smith, Holmes, O'Connor, Olsen-Smith, Penry, Wilhelm, Zaerr. *Associate Professors:* Campbell, Fredricksen, Harvey, Hindrichs, Keck, Ramirez-Dhoore, Test, Udall, Uehling, Willerton. *Assistant Professors:* Basu Thakur, Clare, Douglas, Shepherd, Temkin-Martinez, Thornes. *Visiting Assistant Professors:* Mukherjee, Myers. *Lecturers:* Anderson, Black, Carter-Cram, Chastaine, Cook, Cox, Drew, Heney, Jenkins-Fletcher, Markley, McGill, Naylor, Nogle, Purdy, Roser, Salter, Seymour, Simnitt, Thomas.

## Degrees 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, Technical Communication Emphasis
- Bachelor of Arts in English, Writing Emphasis
- Minor in English
- 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 Emphasis offers students a choice of two tracks: creative writing and rhetoric and composition/communication. Creative writing students do intensive study of craft in fiction and poetry while reading widely in literature. Rhetoric and composition/communication focuses largely on writing and reading nonfiction texts leading to an understanding how composing strategies influence a range of audiences. In the Technical Communication Emphasis students learn to produce a wide variety of print and online documents for users in the computer industry, in the health sciences, and in many other fields.

## 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* |
| Foundational Studies Program requirements indicated in **bold**. See page 50 for details and lists of approved courses. | |
| **ENGL 101** Introduction to College Writing | 3 |
| **ENGL 102** Intro to College Writing and Research | 3 |
| **UF 100** Intellectual Foundations | 3 |
| **UF 200** Civic and Ethical Foundations | 3 |
| **DLM** Mathematics | 3-4 |
| **DLN** Natural, Physical, & Applied Sciences course with lab | 4 |
| **DLN** Natural, Physical, and Applied Sciences course | 3-4 |
| **DLV** Visual and Performing Arts | 3 |
| **DLL** Literature and Humanities | 3-4 |
| **DLS** Social Sciences course in a first field | 3 |
| **DLS** Social Sciences course in a second field | 3 |
| ENGL 198 Introduction to English Studies | 1 |
| ENGL 275 Methods of Literary Studies | 3 |
| **CID** ENGL 304 Argument | 3 |
| LING 305 Introduction to Language Studies | 3 |
| **FF** 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, selected 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 | 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 | 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, foreign language (classical or modern), philosophy, psychology, history, communication, bilingual education, and anthropology. Please see English department website for a list of approved courses. | 6 |
| One or more languages other than English | 12-16 |
| Upper-division electives to total 40 credits | 7 |
| Electives to total 120 credits | 23-30 |
| *Total* | 120 |
| All courses used toward the English degree must be passed with a grade of C- or higher. | |

| English, Literature Emphasis<br>Bachelor of Arts | |
|---|---|
| *Course Number and Title* | *Credits* |
| Foundational Studies Program requirements indicated in **bold**. See page 50 for details and lists of approved courses. | |
| **ENGL 101** Introduction to College Writing | 3 |
| **ENGL 102** Intro to College Writing and Research | 3 |
| **CID** ENGL 275 Methods of Literary Studies | 3 |
| **UF 100** Intellectual Foundations | 3 |
| **UF 200** Civic and Ethical Foundations | 3 |
| **FF** ENGL 498 Senior Capstone in Literary Studies | 3 |
| **DLM** Mathematics | 3-4 |
| **DLN** Natural, Physical, & Applied Sciences course with lab | 4 |
| **DLN** Natural, Physical, and Applied Sciences course | 3-4 |
| **DLV** Visual and Performing Arts | 3 |
| **DLL** Literature and Humanities (credits to be taken from a language other than English) | 3-4 |
| **DLS** Social Sciences course in a first field | 3 |
| **DLS** Social Sciences course in a second field | 3 |
| Major Foundation | |
| ENGL 198 Introduction to English Studies | 1 |
| Historical Breadth | |
| ENGL 267 Survey of British Literature to 1790 | 3 |
| ENGL 268 Survey of British Literature: 1790-Present | 3 |
| ENGL 277 Survey of American LIt: Beginnings to Civil War | 3 |
| ENGL 278 Survey of American Literature: Civil War to Present | 3 |
| Critical Thinking/Theory | |
| ENGL 304 Argument | 3 |
| ENGL 393 Literary Criticism and Theory | 3 |
| Writing and/or Linguistics | |
| Choose two courses from the following:<br>ENGL 201 Nonfiction Writing<br>ENGL 202 Technical Communication<br>ENGL 204 Writing Creative Nonfiction<br>ENGL 205 Poetry Writing<br>ENGL 206 Fiction Writing<br>ENGL 324 Topics in Rhetoric and Composition<br>ENGL 329 Grammar, Style, and Writing<br>ENGL 401 Advanced Nonfiction Writing<br>LING 301 History of the English Language<br>LING 305 Introduction to Language Studies | 6 |
| Gender/Diversity/Culture | |
| Choose one course from<br>ENGL 390 Ethnic Literature<br>ENGL 395 Women Writers<br>ENGL 396 Postcolonial Literature | 3 |
| Intermediate | |
| 300-level literature courses | 9 |
| Advanced | |
| ENGL 424 Advanced Topics in Literature | 6 |
| Additional credits in same language other than English taken for DLL | 3-4 |
| Upper-division electives to total 40 credits | 10-16 |
| *Continued* | |

| *English, Literature Emphasis continued* | |
|---|---|
| Electives to total 120 credits | 14-24 |
| *Total* | 120 |
| Students considering graduate work in English are advised to reach a level of competency in a foreign language equivalent to two years of college-level work. | |
| 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 http://education.boisestate.edu. Students must meet all knowledge, skill, and disposition requirements to remain in the program.

| English Teaching<br>Bachelor of Arts | |
|---|---|
| *Course Number and Title* | *Credits* |
| Foundational Studies Program requirements indicated in **bold**. See page 50 for details and lists of approved courses. | |
| **ENGL 101** Introduction to College Writing | 3 |
| **ENGL 102** Intro to College Writing and Research | 3 |
| **UF 100** Intellectual Foundations | 3 |
| **UF 200** Civic and Ethical Foundations | 3 |
| **DLM** Mathematics | 3-4 |
| **DLN** Natural, Physical, & Applied Sciences course with lab | 4 |
| **DLN** Natural, Physical, and Applied Sciences course | 3-4 |
| **DLV** Visual and Performing Arts | 3 |
| **DLL** Literature and Humanities | 3-4 |
| **DLS** ED-CIFS 201 Foundations of Education | 3 |
| **DLS** 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. | |
| ENGL 198 Introduction to English Studies | 1 |
| ENGL 275 Methods of Literary Studies | 3 |
| *Continued* | |

| *English Teaching continued* | |
|---|---|
| ENGL 301 Teaching English Composition | 3 |
| **CID** ENGL 381 English Teaching: Writing, Reading, and Language | 3 |
| ENGL 481 Literature for Use in Junior and Senior High School | 3 |
| **FF** ENGL 495 English Teaching Seminar | 1 |
| Writing courses 200-level or higher | 6 |
| LING 305 Introduction to Language Studies | 3 |
| Additional upper-division linguistics course | 3 |
| Additional English and linguistics course credits<br>Of these 18, 15 must be upper-division and no more than 3 credits may be internship.<br>For certification the transcript must show at least one American and one British literature course. | 18 |
| Electives to total 120 credits | 8-11 |
| *Total* | 120 |
| All courses used toward the English degree must be passed with a grade of C- or higher. | |

## English, Technical Communication Emphasis Bachelor of Arts

| *Course Number and Title* | *Credits* |
|---|---|
| Foundational Studies Program requirements indicated in **bold**. See page 50 for details and lists of approved courses. | |
| **ENGL 101** Introduction to College Writing | 3 |
| **ENGL 102** Intro to College Writing and Research | 3 |
| **UF 100** Intellectual Foundations | 3 |
| **UF 200** Civic and Ethical Foundations | 3 |
| **DLM** Mathematics | 3-4 |
| **DLN** Natural, Physical, & Applied Sciences course with lab | 4 |
| **DLN** Natural, Physical, and Applied Sciences course | 3-4 |
| **DLV** Visual and Performing Arts | 3 |
| **DLL** Literature and Humanities | 3-4 |
| **DLS** ECON 201 Principles of Macroeconomics | 3 |
| **DLS** Social Sciences course in a second field* | 3 |
| ENGL 198 Introduction to English Studies | 1 |
| ENGL 302 Technical Rhetoric | 3 |
| ENGL 304 Argument | 3 |
| **CID** ENGL 312 Technical Communication Applications | 3 |
| *Continued* | |

| *English, Technical Communication Emphasis continued* | |
|---|---|
| ENGL 403 Technical Editing | 3 |
| ENGL 405 Print Document Production | 3 |
| ENGL 415 On-screen Document Production | 3 |
| ENGL 493 Internship | 3 |
| **FF** ENGL 499 Capstone in Technical Communication | 3 |
| ITM 104** Operating Systems and Word Processing Topics | 1 |
| ITM 105** Spreadsheet Topics | 1 |
| ITM 106** Database Topics | 1 |
| Communication courses chosen from:<br>COMM 101*** Fundamentals of Speech Communication<br>COMM 302 Research Methods<br>COMM 304 Perspectives of Inquiry<br>COMM 307 Interviewing<br>COMM 321 Rhetorical Theories<br>COMM 361 Organizational Communication<br>COMM 390 Conflict Management<br>COMM 481 Studies in Interpersonal Communication<br>COMM 483 Studies in Organizational Communication<br>COMM 484 Studies in Rhetoric and Public Presentation | 6 |
| Accounting, General Business, Management, Information Technology Management, and Sociology courses chosen from:<br>ACCT 205 Introduction to Financial Accounting<br>ACCT 206 Introduction to Managerial Accounting<br>GENBUS 441 Business in Society: Ethics, Responsibility & Sustainability<br>ITM 310 Business Intelligence<br>ITM 315 Database Systems<br>MGMT 301 Leadership Skills<br>MGMT 401 Organizational Behavior<br>MGMT 405 Management of Continuous Learning<br>SOC 487 Organizational Theory and Bureaucratic Structure | 6 |
| Upper-division electives to total 40 credits | 4-16 |
| Electives to total 120 credits | 27-42 |
| *Total* | 120 |

*Note: Technical Communication Emphasis students are advised not to take ENGL 202 Introduction to Technical Communication to fulfill a **DLS** requirement. The information covered in ENGL 202 is covered in greater detail in two required courses: ENGL 302 and 312.

**Students may take the COBE Computer Placement Exam to place out of ITM 104 Operating Systems and Word Processing Topics, ITM 105 Spreadsheet Topics, and ITM 106 Database Topics or take any of these courses for credit. Students who place out of any of these three courses still must meet the 120-credit graduation requirement.

***COMM 101 can be counted as fulfilling one of the **DLS** field requirements.

All courses used toward the English degree must be passed with a grade of C- or higher.

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.

| Certificate in Technical Communication | |
|---|---|
| *Course Number and Title* | *Credits* |
| ENGL 302 Technical Rhetoric | 3 |
| ENGL 312 Technical Communication Applications | 3 |
| ENGL 403 Technical Editing | 3 |
| Two of the following courses:<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>GENBUS 360 Business Ethics and Social Responsibility<br>ITM 310 Business Intelligence<br>LING 305 Introduction to Language Studies<br>MGMT 401 Organizational Behavior<br>MGMT 405 Management of Continuous Learning<br>MKTG 407 Marketing Communication<br>SOC 390 Conflict Management<br>SOC 487 Organizational Theory and Bureaucratic Structure | 5-6 |
| *Total* | 14-15 |

| English, Writing Emphasis<br>Bachelor of Arts | |
|---|---|
| *Course Number and Title* | *Credits* |
| Foundational Studies Program requirements indicated in **bold**. See page 50 for details and lists of approved courses. | |
| **ENGL 101** Introduction to College Writing | 3 |
| **ENGL 102** Intro to College Writing and Research | 3 |
| **UF 100** Intellectual Foundations | 3 |
| **UF 200** Civic and Ethical Foundations | 3 |
| **DLM** Mathematics | 3-4 |
| **DLN** Natural, Physical, & Applied Sciences course with lab | 4 |
| **DLN** Natural, Physical, and Applied Sciences course | 3-4 |
| **DLV** Visual and Performing Arts | 3 |
| **DLL** Literature and Humanities | 3-4 |
| **DLS** Social Sciences course in a first field | 3 |
| **DLS** Social Sciences course in a second field | 3 |
| ENGL 198 Introduction to English Studies | 1 |
| LING 305 Introduction to Language Studies | 3 |
| **Creative Writing Track** | |
| ENGL 201 Nonfiction Writing or<br>ENGL 204 Writing Creative Nonfiction | 3 |
| ENGL 205 Poetry Writing | 3 |
| ENGL 206 Fiction Writing | 3 |
| ENGL 267 Survey of British Literature to 1790 | 3 |
| ENGL 268 Survey of British Literature: 1790-Present | 3 |
| **CID** ENGL 275 Methods of Literary Studies | 3 |
| ENGL 277 Survey of American LIt: Beginnings to Civil War | 3 |
| *Continued* | |

| *English, Writing Emphasis continued* | |
|---|---|
| ENGL 278 Survey of American Literature: Civil War to Present | 3 |
| ENGL 305 Intermediate Poetry Writing or<br>ENGL 306 Intermediate Fiction Writing | 3 |
| ENGL 406 Advanced Poetry Writing or<br>ENGL 407 Advanced Fiction Writing | 3 |
| **FF** ENGL 491 Senior Portfolio in Creative Writing | 3 |
| Upper-division English courses (at least 9 credits in literature) | 21 |
| Upper-division electives to total 40 credits | 7 |
| Electives to total 120 credits | 18-21 |
| *Total* | 120 |
| **Rhetoric and Composition/Communication Track** | |
| ENGL 201 Nonfiction Writing | 3 |
| ENGL 202 Technical Communication | 3 |
| ENGL 204 Writing Creative Nonfiction | 3 |
| ENGL 205 Poetry Writing or ENGL 206 Fiction Writing | 3 |
| ENGL 275 Methods of Literary Studies | 3 |
| **CID** ENGL 304 Argument | 3 |
| ENGL 324 Topics in Rhetoric and Composition or<br>COMM 321 Rhetorical Theories | 3 |
| ENGL 329 Grammar, Style, and Writing | 3 |
| ENGL 401 Advanced Nonfiction Writing | 3 |
| **FF** ENGL 492 Senior Capstone in Writing: Rhetoric & Composition | 3 |
| COMM 231 Public Speaking | 3 |
| COMM 331 Message Analysis and Criticism | 3 |
| COMM 484 Studies in Rhetoric and Public Presentation or<br>COMM 412 Persuasion | 3 |
| Upper-division English, linguistics, or communication courses | 9 |
| Upper-division writing courses (May include technical writing, feature writing, critical writing, playwriting, and other writing courses offered either in the Department or outside the English department if writing is clearly the central subject of the course. Please see advising page of English department website for a list of currently approved courses. | 6 |
| Upper-division electives to total 40 credits | 1 |
| Electives to total 120 credits | 24-27 |
| *Total* | 120 |

| English Minor | |
|---|---|
| *Course Number and Title* | *Credits* |
| ENGL 267 or 268 Survey of British Literature | 3 |
| ENGL 275 Methods of Literary Studies | 3 |
| ENGL 277 or 278 Survey of American Literature | 3 |
| Upper-division linguistics course | 3 |
| Upper-division English and/or upper-division linguistics courses | 6 |
| Writing course numbered 200 or higher | 3 |
| *Total* | 21 |
| All courses used toward the English degree must be passed with a grade of C- or higher. | |

| English Teaching Endorsement | |
|---|---|
| *Course Number and Title* | *Credits* |
| ENGL 267 or 268 Survey of British Literature | 3 |
| ENGL 275 Methods of Literary Studies | 3 |
| ENGL 277 or 278 Survey of American Literature | 3 |
| ENGL 301 Teaching English Composition | 3 |
| ENGL 481 Literature for Use in Junior & Senior High School | 3 |
| LING 305 Introduction to Language Studies | 3 |
| Writing courses numbered 200 or higher | 6 |
| *Total* | 24 |
| All courses used toward the English Teaching Endorsement must be passed with a grade of C- or higher. | |
| See Department of Curriculum, Instruction, and Foundational Studies for more information. | |

## 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.

**See page 63 for a definition of the course-numbering system.**

**ENGL – English**

**Lower Division**

**ENGL 101 INTRODUCTION TO COLLEGE WRITING (3-0-3)(F,S,SU) (Core).** Introduction to critical reading and to writing processes, including invention, revision, and editing. Emphasis on writing thoughtful explorations of readings, observations, ideas, and experiences; developing the author's voice and inventiveness; editing for style and conventions of standard usage. PREREQ: ENGL 123 or satisfactory placement score.

**ENGL 101P INTRODUCTION TO COLLEGE WRITING PLUS (3-1-4) (F,S,SU).** 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 101 Plus placement.

**ENGL 102 INTRO TO COLLEGE WRITING AND RESEARCH (3-0-3) (F,S,SU)(Core).** An inquiry-based course that continues work with critical reading and writing processes and provides experiences with methods and genres of researched writing. Students will initiate research projects, gather information from a range of sources, and demonstrate they can write about that information purposefully, using appropriate documentation. PREREQ: ENGL 101 or satisfactory placement score.

**ENGL 112 HONORS WRITING AND RESEARCH (3-0-3)(F,S,SU).** Provides students with further practice in writing as an act of inquiry. Students will develop writing projects and share their findings or discoveries. Emphasizes critical reading, research methodologies, rhetorical principles, persuasion, genre, and advanced writing techniques. PREREQ: Admission to the Honors College and either ENGL 101 or satisfactory placement score.

**ENGL 121 ACADEMIC ENGLISH WRITING FOR SPEAKERS OF OTHER LANGUAGES, LEVEL I (3-0-3)(F,S,SU).** Introduction to writing essays and other genres in English. Special attention given to basic paragraph and essay development. Individual students' grammatical and vocabulary difficulties will be addressed in the context of their own writing. (Pass/Fail.) PREREQ: English-as-a-Second-Language placement exam.

**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 or a grade of Pass (P) in ENGL 121.

**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 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,SU).** 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 (or ENGL 112).

**ENGL 202 INTRODUCTION TO TECHNICAL COMMUNICATION (3-0-3)(F,S,SU)(DLS).** An introduction to the principles and applications of technical communication, with an emphasis on audience characteristics and methods of performing research, analyzing data, and writing persuasive documents. Topics include audience analysis, the writing process, graphics, document design, the ethics of technical communication, and problem-solving research, as well as applications such as memos, letters, instructions, proposals, and reports. PREREQ: ENGL 102 (or ENGL 112) or PERM/INST.

**ENGL 204 WRITING CREATIVE NONFICTION (3-0-3)(F,S,SU).** Focuses on genres of creative nonfiction. Workshop format with frequent writing exercises. Readings and discussion of published nonfiction with particular attention to voice, genre, and style. May be repeated for a total of nine credit hours. PREREQ: ENGL 102 or ENGL 112.

**ENGL 205 POETRY WRITING (3-0-3)(F,S,SU).** Based on evaluation of student's original work. PREREQ: ENGL 102 or ENGL 112 or equivalent.

**ENGL 206 FICTION WRITING (3-0-3)(F,S,SU).** Introduction to fiction writing with a concentration on descriptive technique. Readings in the short story. PREREQ: ENGL 102 or ENGL 112 or equivalent.

**ENGL 210 INTRODUCTION TO LITERATURE (3-0-3)(F,S,SU)(DLL).** An exploration of multiple literary genres and styles and an introduction to literary terminology. Emphasis on interpreting texts expressive of the human condition. PREREQ: ENGL 102 (or ENGL 112) or PERM/INST.

**ENGL 211 THE BIBLE AS LITERATURE (3-0-3)(F,S,SU).** Examines selected historical, biographical, poetic, dramatic teaching, and letter-writing portions of Hebrew-Christian testaments. Emphasis on literary aspects with discussions of notable concepts in major writings. PREREQ: ENGL 102 (or ENGL 112).

**ENGL 216 CULTURAL EXCHANGE IN TRANSNATIONAL LITERATURES (3-0-3)(F,S,SU).** Multiethnic and global literatures with an emphasis on cross-cultural exchange. Addresses relationships between literature and the formation of national and ethnic identities, with special emphasis on the anthropological, historical and political contexts that contribute to the production of transnational literatures. PREREQ: ENGL 102 (or ENGL 112).

**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 (or ENGL 112).

**ENGL 257 WORLD LITERATURE I: ANCIENT TO 1650 (3-0-3) (F,S,SU).** Survey of works from around the world, including regions such as Europe, the Mediterranean, Africa, the Middle East, or Asia, from ancient times through the seventeenth-century, drawing on literary, cultural, philosophical, historical, and religious contexts. All readings in English. PREREQ: ENGL 102 (or ENGL 112).

**ENGL 258 WORLD LITERATURE II: 1650 – CONTEMPORARY (3-0-3) (F,S,SU).** Survey of works from around the world, including regions such as Europe, the Mediterranean, Africa, the Middle East, or Asia, from 1650 to the present, considering literary, cultural, philosophical, historical, and religious contexts. All readings in English. PREREQ: ENGL 102 (or ENGL 112).

**ENGL 267 SURVEY OF BRITISH LITERATURE TO 1790 (3-0-3) (F,S,SU).** Examines the dominant cultural movements and literary forms in England from the middle ages through the 18th century. PREREQ: ENGL 102 (or ENGL 112).

**ENGL 268 SURVEY OF BRITISH LITERATURE: 1790 TO PRESENT (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 (or ENGL 112).

**ENGL 275 METHODS OF LITERARY STUDIES (3-0-3)(F,S,SU)(CID).** 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 (or ENGL 112) or PERM/INST.

**ENGL 277 SURVEY OF AMERICAN LITERATURE: BEGINNINGS TO CIVIL WAR (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 (or ENGL 112).

**ENGL 278 SURVEY OF AMERICAN LITERATURE: CIVIL WAR TO PRESENT (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. PREREQ: ENGL 102 (or ENGL 112).

**Upper Division**

**ENGL 301 TEACHING ENGLISH COMPOSITION (3-0-3)(F,S,SU).** Theories and techniques for teaching English composition in secondary schools. Intended for English teaching students; should be taken during teaching block I. PREREQ: Upper-division standing or PERM/INST. COREQ: ENGL 481.

**ENGL 302 TECHNICAL RHETORIC (3-0-3)(F,S,SU).** An introduction to 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 102 (or ENGL 112) and Technical Communication Emphasis, or PERM/INST.

**ENGL 303 THEORY AND PRACTICE OF TUTORING WRITING (3-0-3)(F,S,SU).** 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 (or ENGL 112) and PERM/INST. COREQ: ENGL 493: Internship in Writing Center.

**ENGL 304 ARGUMENT (3-0-3)(F,S,SU)(CID).** 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 (or ENGL 112) or PERM/INST.

**ENGL 305 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 taken twice for credit. PREREQ: ENGL 205.

**ENGL 306 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 taken twice for credit. PREREQ: ENGL 206.

**ENGL 307 LITERARY TRANSLATION (3-0-3)(Offered 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. PREREQ: ENGL 205 or ENGL 206.

**ENGL 312 TECHNICAL COMMUNICATION APPLICATIONS (3-0-3) (F,S,SU)(CID).** Advanced study of technical communication for those students who are considering a career in the field. Assignments are related to each student's background and field of interest. Topics include in-depth work in technical style, technical presentations, and the common kinds of documents produced in business and industry, including proposals, progress reports, formal reports, and oral presentations. PREREQ: ENGL 102 (or ENGL 112), ENGL 302 or PERM/INST.

**ENGL 324 TOPICS IN RHETORIC AND COMPOSITION (3-0-3) (F,S,SU).** Draws from areas such as composition theory; rhetorical theory/history; cultural studies; literacy, media, and race/gender/class/ethnicity studies. May be repeated for a total of nine credits. PREREQ: ENGL 102 (or ENGL 112), or PERM/INST.

**ENGL 326 (ART 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 ART 326: ART 108. PREREQ for ENGL 326: ENGL 102 (or ENGL 112).

**ENGL 329 GRAMMAR, STYLE, AND WRITING (3-0-3)(F,S,SU).** 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 ENGL 112) or ENGL 112, or PERM/INST.

**ENGL 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 non-fiction. Course will expose students to particular methods, approaches, and techniques in a genre and their aesthetic effects. May be taken twice for credit. PREREQ: 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 381 ENGLISH TEACHING: WRITING, READING, AND LANGUAGE (3-0-3)(F,S,SU)(CID).** Theories and methods of teaching secondary school English language arts, including integration of composition, literature, and language. Students compose instructional planning documents and teaching lessons. PREREQ: ENGL 102 (or ENGL 112), ENGL 275, ENGL 301, and ENGL 481. COREQ: EDCIFS 401 and ED-LLC 444.

**ENGL 383 STUDIES IN FICTION (3-0-3)(F,S,SU).** Study and analysis of fiction. Topic and focus vary. PREREQ: ENGL 275 or PERM/INST.

**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 385 STUDIES IN POETRY (3-0-3)(F,S,SU).** Study and analysis of poetry. Topic and focus vary. 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 CONTEMPORARY AMERICAN LITERATURE (3-0-3)(F,S,SU).** Study and analysis of twentieth- and twenty-first-century American literature. PREREQ: ENGL 275 or PERM/INST.

**ENGL 388 STUDIES IN NONFICTION (3-0-3)(F,S,SU).** Study and analysis of nonfiction texts. Topic and focus vary. PREREQ: ENGL 275 or PERM/INST.

**ENGL 389 STUDIES IN DRAMA (3-0-3)(F,S,SU).** Study and analysis of dramatic texts. Topic and focus vary. 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,S,SU).** Advanced practice in nonfiction genres, and study of how writers read and learn from other writers. Experimentation with subjects, voice, organization, and style. Students may take the course twice, for a total of 6 credits. Students seeking graduate credit will produce a greater quantity and high quality of original work, will have a separate and more extensive reading list, and will be expected to participate more fully in class activities. PREREQ: ENGL 201.

**ENGL 403 TECHNICAL EDITING (3-0-3)(F,S,SU).** An introduction to the role of the technical editor in organizational settings. Topics include copyediting, comprehensive editing, proofreading, working with authors, and preparing documents for publication. PREREQ: ENGL 312 or PERM/INST.

**ENGL 405 PRINT DOCUMENT PRODUCTION (3-0-3)(F,S,SU).** An advanced study and application of the principles of producing effective technical documents. Topics include the relationship between layout and readability, techniques for combining textual and nontextual information, and the use of desktop publishing and graphics software. Students will produce basic print documents, such as brochures, data sheets, flyers, and manuals. PREREQ: ENGL 312 or PERM/INST.

**ENGL 406 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 for up to six credit hours. PREREQ: ENGL 305 or PERM/INST.

**ENGL 407 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 for up to six credit hours. PREREQ: ENGL 306 or PERM/INST.

**ENGL 415 ON-SCREEN DOCUMENT PRODUCTION (3-0-3)(F,S,SU).** An advanced study and application of the principles involved in designing, creating, and managing information on the screen. Topics include the relationship between screen layout and readability; techniques for integrating text, graphics, and multimedia; principles of writing and indexing on-screen instructional materials; and the use of online help and Web-authoring software. Students will practice effective hypertext and screen-design techniques in producing basic electronic documents, such as online help and websites. PREREQ: ENGL 312 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. PREREQ: ENGL 393 and six credits of 300-level literature courses or PERM/INST.

**ENGL 481 LITERATURE FOR USE IN JUNIOR AND SENIOR HIGH SCHOOL (3-0-3)(F,S,SU).** Study of literature taught in secondary school and approaches for teaching this literature. Intended for English teaching students; should be taken during teaching block I. PREREQ: ENGL 275 and two literature courses, or PERM/INST. COREQ: ENGL 301.

**ENGL 491 SENIOR PORTFOLIO IN CREATIVE WRITING (3-0-3)(F/S)(FF).** Extensive revision of previous written work in creative writing courses and creation of portfolio focused on fiction or poetry. PREREQ: Senior standing and PERM/INST.

**ENGL 492 SENIOR CAPSTONE IN WRITING: RHETORIC AND COMPOSITION EMPHASIS (3-0-3)(F/S)(FF).** Extensive revision of previous written work in rhetoric and composition courses and creation of portfolio. PREREQ: Senior standing and PERM/INST.

**ENGL 495 ENGLISH STUDENT TEACHING SEMINAR (1-0-1)(F/S)(FF).** Seminar supporting student teaching in English grades 6-12. Students compose and share teaching documents and reflect on teaching experiences. (Pass/Fail). 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, a minimum of 3 credits in ENGL 424, and PERM/INSTR.

**ENGL 499 CAPSTONE IN TECHNICAL COMMUNICATION (3-0-3)(F,S,SU)(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 415 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)(DLL).** 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 ENGL 112) or PERM/INST.

**LING – Linguistics**

**LING 205 LANGUAGE IN HUMAN LIFE (3-0-3)(F,S,SU)(DLS).** 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.

**Upper Division**

**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 change; dialects of English. Concentrated work with written documents in English language history. PREREQ: ENGL 102 (or ENGL 112) 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 ENGL 112) 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 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 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 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.

## Entrepreneurship Management — see Department of Management

## Environmental Biology — see Department of Biological Sciences

## Environmental and Occupational Health — see Department of Community and Environmental Health

# Environmental Studies

*College of Arts and Sciences*

Micron Business and Economics Building, Room 2146 Phone: (208) 426-5439
http://sspa.boisestate.edu/environmentalstudies/

*Director:* Scott E. Lowe. *Faculty Affiliates:* Amanda Ashley, Lisa Brady, Kathryn Demps, Marie-Anne de Graaff, Kevin Feris, John Freemuth, John Gardner, Tom Gattiker, Beau Hansen, Samantha Harvey, Julie Heath, Christopher Hill, Tom Hillard, Samia Islam, Sondra Miller, George Murgel, Steve Novak, Martin Orr, Jennifer Pierce, Martin Schimpf, Dale Stephenson, Thomas Wuerzer, David Wilkins.

## 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 with a basic background in mathematics, science, social sciences, and environmental policy. The degree differs from science and engineering degrees because of its focus on communication, critical thinking, and problem solving. The environmental studies program provides an excellent preparation for law school, for graduate school in public policy, the social sciences, the humanities, and for jobs with environmental organizations, governmental agencies, and industry. Students wishing more depth in environmental science or engineering should 1) consider a B.S. in Biology, Chemistry, Environmental and Occupational Health, Geophysics, or Geosciences, either alone or in combination with a B.A. in Environmental Studies as a double major, or 2) consider combining a B.A. in Environmental Studies with a minor in Biology, Chemistry, Civil Engineering, or Geographic Information Systems. Further information is available at the Director's office.

## Degree Requirements

| Environmental Studies<br>Bachelor of Arts | |
|---|---|
| *Course Number and Title* | *Credits* |
| Foundational Studies Program requirements indicated in **bold**. See page 50 for details and lists of approved courses. | |
| **ENGL 101** Introduction to College Writing | 3 |
| **ENGL 102** Intro to College Writing and Research | 3 |
| **UF 100** Intellectual Foundations | 3 |
| **UF 200** Civic and Ethical Foundations | 3 |
| **DLM** MATH 254 Introduction to Statistics | 3 |
| **DLN** BIOL 100 Concepts of Biology or<br>BIOL 191 General Biology I | 4 |
| **DLN** GEOS 101 Global Environmental Science | 4 |
| **DLV** Visual and Performing Arts | 3 |
| **DLL** Literature and Humanities | 3-4 |
| **DLS** ECON 202 Principles of Microeconomics | 3 |
| **DLS** ENGL 202 Technical Communication | 3 |
| ANTH 102 Social-Cultural Anthropology or<br>ANTH 103 Introduction to Archaeology | 3 |
| COMM 112 Reasoned Discourse or<br>COMM 231 Public Speaking | 3 |
| Choose one of the following Courses:<br>*COMM/DISPUT/SOC 390 Conflict Management<br>DISPUT 400 Basic Mediation Skills<br>*MGMT 301 Leadership Skills | 3 |
| ENVSTD 121 Introduction to Environmental Studies | 3 |
| *Continued* | |

| *Environmental Studies continued* | |
|---|---|
| **CID** ENVSTD 221 People and Nature | 3 |
| ENVSTD 491 Project Seminar | 1 |
| **FF** ENVSTD 492 Capstone Seminar | 2 |
| ENVSTD 493 Internship | 2 |
| GEOG 100 Introduction to Geography or<br>GEOG 102 Cultural Geography or<br>GEOG 200 World Regional Geography | 3 |
| *GEOG 360 Introduction to Geographic Information Systems | 3 |
| PHIL 103 Moral Problems | 3 |
| POLS 101 American National Government | 3 |
| Social Sciences, Human Behavior - Humanities, and Natural Systems chosen from:<br>*ANTH 314 Environmental Anthropology<br>*ANTH 402 Geoarchaeology<br>*ANTH 414 Quaternary Paleontology<br>ANTH 418 Quantitative Field Methods<br>*BIOL 323 Ecology<br>*CE 320 Principles of Environmental Engineering (CE 321 Lab optional)<br>*ECON 322 Urban Economics<br>ECON 333 Natural Resource Economics<br>*ENGL 384 Literature and the American West<br>*ENGL 394 Literature and the Environment<br>*ENVHLTH 310 Water Supply and Water Quality Management<br>*ENVHLTH 417 Principles of Toxicology<br>ENVHLTH 442 Hazardous Waste Management<br>ENVHLTH 450 Environmental Health Law<br>*ENVHLTH 480 Air Quality Management<br>ENVSTD 498 Seminar in Environmental Studies<br>GEOG 321 Sustainability of Natural Resources<br>GEOS 305 Earth's Climate: Past, Present and Future<br>HIST 351 North American Environmental History<br>HIST 376 Global Environmental History<br>*PHIL 327 Environmental Ethics<br>*POLS 409 Environmental Politics<br>SOC 440 Environmental Sociology<br>*These courses have a prerequisite that is not for the major, but is required prior to taking this elective course. | 18 |
| Upper-division electives to total 40 credits | 11 |
| Electives to total 120 credits<br>(Any courses given at the University may be used as electives. Taking courses from the following list would give a student more depth in environmental science: BIOL 192, BIOL 400, BIOL 422, CHEM 101, 101L-102, 102L, CHEM 111, 111L-112, 112L.) | 23-24 |
| *Total* | 120 |

| Environmental Studies Minor | |
|---|---|
| *Course Number and Title* | *Credits* |
| ENVSTD 121 Introduction to Environmental Studies | 3 |
| GEOG 100 Introduction to Geography | 3 |
| *ANTH 314 Environmental Anthropology or<br>*BIOL 323 Ecology or<br>*GEOG 321 Conservation of Natural Resources | 3-4 |
| *ECON 333 Natural Resource Economics or<br>HIST 351 North American Environmental History or<br>HIST 376 Global Environmental History or<br>*POLS 409 Environmental Politics | 3 |
| *Continued* | |

| *Environmental Studies Minor continued* | |
|---|---|
| Choose 8 credits from the following:<br>BIOL 191 General Biology I<br>BIOL 192 General Biology II<br>CHEM 101, 101L-102, 102L Essentials of Chem I & II w/labs<br>CHEM 111, 111L-112, 112L General Chemistry I & II with Labs<br>ENVHLTH 102 Global Environmental Health<br>GEOS 101 Global Environmental Science | 8 |
| Choose 6 credits from the following:<br>(Courses used to satisfy requirements in previous sections may not be used to satisfy the 6 credits required in this section)<br>ANTH 314 Environmental Anthropology<br>*BIOL 323 Ecology<br>*BIOL 422 Conservation Biology<br>*CHEM 211, 212 Analytical Chemistry I and Lab<br>*CHEM 301 Survey of Organic Chemistry<br>*CE 320 Principles of Environmental Engineering (CE 321 lab is optional)<br>*ECON 322 Urban Economics<br>*ENVHLTH 310 Water Supply and Water Quality Management<br>*ENVHLTH 417 Principles of Toxicology<br>ENVHLTH 442 Hazardous Waste Management<br>ENVHLTH 450 Environmental Health Law<br>*ENVHLTH 480 Air Quality Management<br>GEOG 321 Conservation of Natural Resources<br>*GEOS 212 Water in the West<br>*GEOS 426 Aqueous Geochemistry<br>HIST 351 North American Environmental History<br>HIST 376 Global Environmental History<br>SOC 440 Environmental Sociology<br>*These courses have a prerequisite that is not for the minor, but is required prior to taking this elective course. | 6 |
| *Total* | 26-27 |

## Course Offerings

**See page 63 for a definition of the course-numbering system.**

**ENVSTD – Environmental Studies**

**Lower Division**

**ENVSTD 121 INTRODUCTION TO ENVIRONMENTAL STUDIES (3-0-3)(F,S)(DLN).** 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 221 PEOPLE AND NATURE (3-0-3)(S)(CID).** Explores environmental topics through interdisciplinary and holistic perspectives that link the social sciences, natural sciences, and humanities. Develops skills in written and oral communication relevant to the discipline of environmental studies. PREREQ: ENGL 101, ENGL 102 (or ENGL 112) and ENVSTD 121.

**Upper Division**

**ENVSTD 491 PROJECT SEMINAR (1-0-1)(F).** 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. PREREQ: ENVSTD 121 and ENVSTD 221, or PERM/INST.

**ENVSTD 492 CAPSTONE SEMINAR (2-0-2)(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. PREREQ: ENVSTD 491.

**ENVSTD 493 INTERNSHIP (2-3 credits).** Work with industries, organizations and agencies that have a stake in the environment. Students must complete a minimum of 50 hours of work per credit of internship. (Pass/Fail.)

**ENVSTD 498 SEMINAR IN ENVIRONMENTAL STUDIES (1-3 credits).** A small class experience that is relevant to Environmental Studies. May be repeated for credit.

## Ethnic Studies — see Department of Sociology

# Family Studies Minor

*College of Arts and Sciences*

Education Building, Room 625 Phone: (208) 426-1207
E-mail: cynthiacampbell@boisestate.edu

*Director and Advisor:* Cynthia Campbell

## Program Offered

- Minor in Family Studies

## Program Statement

The College of Arts and Sciences, through the Department of Psychology, offers the Family Studies Minor. The interdisciplinary field of 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.

| Family Studies Minor | |
|---|---|
| *Course Number and Title* | *Credits* |
| PSYC 101 General Psychology | 3 |
| PSYC 295 Statistical Methods or<br>MATH 254 Introduction to Statistics | 3 |
| PSYC 309 Child Development | 3 |
| PSYC 310 Adolescent and Adult Development | 3 |
| PSYC 438 Community Psychology or<br>ED-ESP 321 Family and Community Relations: ECE/ECSE | 3 |
| SOC 101 Introduction to Sociology | 3 |
| SOC 340 Sociology of the Family or<br>PSYC 419 Children and Families: Multicultural Perspectives | 3 |
| One 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<br>*These courses have a prerequisite that is not for the minor, but is required prior to taking this elective course. | 3 |
| *Total* | 24 |

Finance — see Department of Marketing and Finance

Fitness (Kinesiology) Activity courses — see Department of Kinesiology

Forensics — see Department of Chemistry and Biochemistry

French — see Department of World Languages

# Gender Studies Minor

*College of Arts and Sciences*

Liberal Arts Building 226
Phone: (208) 426-1145
http://sspa.boisestate.edu/genderstudies/
Information: reshmimukherjee@boisestate.edu

*Interim Director:* Reshmi Mukherjee

## 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 300 Introduction to Gender Studies | 3 |
| GENDER 301/SOC 471 Feminist Theory | 3 |
| GENDER 302 Research Methods and Perspectives | 3 |
| Electives* | |
| Upper-division 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. | 12 |
| *Total* | 21 |
| *No more than 6 credit hours total of independent study, internship, practica, service-learning, or workshop may be applied toward the Gender Studies Minor. | |

## Course Offerings

**See page 63 for a definition of the course-numbering system.**

**GENDER – Gender Studies**

**GENDER 300 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 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 300 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 300 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 300, a research methods course, and PERM/INST.

General Business — see Department of Management

Geology — see Department of Geosciences

Geophysics — see Department of Geosciences

# Department of Geosciences

*College of Arts and Sciences*

Environmental Research Building, Room 1160 Phone: (208) 426-1631
http://earth.boisestate.edu Fax: (208) 426-4061
E-mail: geosciences@boisestate.edu

*Chair and Associate Professor:* David Wilkins. *Professors:* Bradford, Glenn, Kohn, McNamara, Michaels, Northrup, Pelton, Schmitz. *Associate Professor:* Benner, Flores, Marshall, Pierce. *Assistant Professors:* Brand, Johnson, Wanless. *Research Professors:* Barrash, Davydov, Gillerman, Viskupic. *Clinical Assistant Professor:* Matson. *Emeritus Faculty:* Donaldson, Snyder, Spinoza, White, Wood.

## Degrees Offered

- Bachelor of Science in Geosciences
  - Geology Emphasis
  - Geophysics Emphasis
  - Hydrology Emphasis
  - Secondary Education Emphasis
- Minor in Earth Science Teaching Endorsement
- Minor in Geospatial Information Analysis

## Department Statement

The curriculum leading to the Bachelor of Science in Geosciences is designed for students who are broadly planning a career in the geosciences or wish to teach earth science at the secondary level. The degree also provides preparation for students who plan to attend graduate school in geosciences or one of many ancillary scientific or engineering disciplines.

All 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, majors chose a focused curricula in one of our emphasis areas – geology, geophysics, hydrology, or secondary education – to better prepare you for that particular career path.

In addition to the courses formally offered in all degree programs, students are encouraged to earn credit for independent study, internship, undergraduate thesis, and for participation in departmental research projects.

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, Psychology, and Sociology.

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 http://idoteach.boisestate.edu. 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* |
| Foundational Studies Program requirements indicated in **bold**. See page 50 for details and lists of approved courses. | |
| **ENGL 101** Introduction to College Writing | 3 |
| **ENGL 102** Intro to College Writing and Research | 3 |
| **UF 100** Intellectual Foundations | 3 |
| **UF 200** Civic and Ethical Foundations | 3 |
| **DLM** MATH 170 Calculus I | 4 |
| **DLN** CHEM 111, 111L General Chemistry I with Lab | 4 |
| **DLN** GEOS 100 or GEOS 101 | 4 |
| **DLV** Visual and Performing Arts | 3 |
| **DLL** Literature and Humanities | 3-4 |
| **DLS** ED-CIFS 201 Foundations of Education (Secondary Education Emphasis) or<br>**DLS** Social Sciences course in a first field | 3 |
| **DLS** Social Sciences course in a second field | 3 |
| CHEM 112, 112L General Chemistry II with Lab | 4 |
| GEOPH 201 Seeing the Unseen: an Introduction to Geophysics | 4 |
| GEOG 360 Introduction to Geographic Information Systems | 3 |
| GEOS 200 Evolution of Western North America | 4 |
| GEOS 212 Water in the West | 4 |
| **CID** GEOS 242 Communication in the Earth Sciences | 3 |
| GEOS 300 Earth Materials | 4 |
| GEOS 313 Geomorphology | 4 |
| GEOS 314 Structural Geology | 4 |
| GEOS 315 Sedimentation and Stratigraphy | 4 |
| **FF** GEOS 498 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 |
| **Geology Emphasis** | |
| GEOS 324 Petrography | 1 |
| GEOS 345 Igneous and Metamorphic Petrology | 3 |
| GEOS 425 Whole Earth Geochemistry | 3 |
| Approved geology field camp (see department advisor) | 4-6 |
| Upper-division electives to total 40 | 3-8 |
| Electives to total 120 credits | 5-15 |
| *Total* | 120 |
| *Continued* | |

| *Geosciences continued* | |
|---|---|
| **Geophysics Emphasis** | |
| CS 115 Introduction to C<br>CS 117 C++ for Engineers<br>CS 119 Introduction to JAVA | 2-3 |
| MATH 275 Multivariable and Vector Calculus | 4 |
| MATH 333 Differential Equations with Matrix Theory | 4 |
| MATH 365 Introduction to Computational Mathematics | 3 |
| GEOPH 305 Applied Geophysics | 3 |
| GEOPH 420 Geophysical Applications of Digital Signal Processing | 3 |
| Upper-division geophysics or geoscience electives | 2-4 |
| Approved field camp (see department advisor) | 4 |
| Electives to total 120 credits | 0-4 |
| *Total* | 120 |
| **Hydrology Emphasis** | |
| GEOS 316 Hydrology | 3 |
| GEOS 412 Hydrology: Flow in Geologic Systems | 3 |
| GEOS 426 Aqueous Geochemistry | 3 |
| Approved field camp (see department advisor) | 4-6 |
| Approved electives | 3 |
| Upper-division electives to total 40 credits | 1-6 |
| Electives to total 120 credits | 2-12 |
| *Total* | 120 |
| **Secondary Education Emphasis** | |
| GEOG 213 Meteorology | 3 |
| GEOS 201 Introduction to Oceanography | 3 |
| GEOS 425 Whole Earth Geochemistry or<br>GEOS 426 Aqueous Geochemistry | 3 |
| PHYS 104 Planets and Astrobiology 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 Mathematics & Science | 3 |
| STEM-ED 220 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 |
| *Total* | 128-132 |

| Earth Science Teaching Endorsement Minor | |
|---|---|
| *Course Number and Title* | *Credits* |
| GEOG 213 Meteorology | 3 |
| GEOS 100 Fundamentals of Geology or GEOS 101 Global Environmental Science | 4 |
| GEOS 200 Evolution of Western North America | 4 |
| GEOS 201 Introduction to Oceanography | 3 |
| GEOS 300 Earth Materials | 4 |
| PHYS 104 Planets and Astrobiology or PHYS 105 Stars and Cosmology | 4 |
| *Total* | 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. | |

| Geography Teaching Endorsement | |
|---|---|
| *Course Number and Title* | *Credits* |
| GEOG 100 Introduction to Geography | 3 |
| GEOG 102 Cultural Geography | 3 |
| Upper-division geography courses | 6 |
| Additional geography courses | 8 |
| *Total* | 20 |
| See Department of Curriculum, Instruction, and Foundational Studies for more information. | |

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 | |
|---|---|
| *Course Number and Title* | *Credits* |
| GEOG 100 Introduction to Geography or GEOG 102 Cultural Geography | 3 |
| GEOG 360 Introduction to Geographic Information Systems | 3 |
| GEOG 361 Remote Sensing | 3 |
| GEOG 460 Geographic Information Analysis or GEOG 493 Internship | 3 |
| ITM 104 Operating Systems and Word Processing Topics | 1 |
| ITM 105 Spreadsheet Topics | 1 |
| ITM 106 Database Topics | 1 |
| MATH 254 Introduction to Statistics or MATH 361 Probability and Statistics I | 3 |
| *Total* | 18 |

| Natural Science Teaching Endorsement | |
|---|---|
| *Course Number and Title* | *Credits* |
| BIOL 191-192 General Biology I and II | 8 |
| CHEM 111, 111L-112, 112L General Chemistry I & II with Labs | 8 |
| GEOS 101 Global Environmental Science | 4 |
| GEOS 300 Earth Materials | 4 |
| *Continued* | |

| *Natural Science Teaching Endorsement continued* | |
|---|---|
| PHYS 111-112 General Physics or PHYS 211, 211L-212, 212L Physics I & II with Calculus & Labs | 8 |
| A minimum of two upper-division courses in a science other than the major endorsement | 8 |
| *Total* | 40 |
| Students pursuing this teaching endorsement are required to hold a major certification endorsement in: Biology, Chemistry, Earth Science Education or Physics. See Department of Curriculum, Instruction, and Foundational Studies for more information. | |

## Course Offerings

**See page 63 for a definition of the course-numbering system.**

**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 100 INTRODUCTION TO GEOGRAPHY (3-0-3)(F,S)(DLS).** A survey of Earth environments, basic concepts and techniques used in geography, and the utilization of natural resources.

**GEOG 102 CULTURAL GEOGRAPHY (3-0-3)(F,S)(DLS).** 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 METEOROLOGY (2-2-3)(F).** A study of weather phenomena in terms of origin, distribution, and classification. Instruments and research methods are also investigated. PREREQ: GEOG 100 or GEOS 100 or GEOS 101.

**Upper Division**

**GEOG 321 SUSTAINABILITY OF NATURAL RESOURCES (3-0-3)(F/S).** Historical and modern geography of natural resource distribution and consumption. Economics, population characteristics and dynamics, social implications and cultural perceptions, attitudes, and character of resource identification and utilization. PREREQ: GEOG 100 or GEOG 102.

**GEOG 331 CLIMATOLOGY (3-0-3)(S).** Atmospheric processes, global heat and moisture balance, radiation budget, and world climate zones. Applied climatological concepts, evaporation, soil water conditions, regional and global climactic trends, climate change, and climate modification. PREREQ: GEOG 213 or GEOS 100 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 100 or GEOS 100 or GEOS 101 or GEOS 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 361.

**GEOG 361 REMOTE SENSING (2-2-3)(F/S).** 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: GEOG 360.

**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. This course may be taken for GEOG or GEOS credit, but not both.

**GEOG 460 GEOGRAPHIC INFORMATION ANALYSIS (2-2-3)(S).** Operations and spatial analysis capabilities of a GIS. Problem identification, GIS project design, development, and implementation. PREREQ: GEOG 360, and MATH 254 or MATH 361.

**GEOG 470 (GEOS 470) EARTH SYSTEM SCIENCE AND GLOBAL WARMING (3-0-3)(F/S).** Survey of interactions among physical biogeochemical processes involved in climate and climate feed back. Explore global warming scenarios for the next century and their reliability. May be taken for GEOG or GEOS credit, but not both. PREREQ: GEOS 201 or GEOG 331.

**GEOPH – Geophysics**

**Lower Division**

**GEOPH 201 SEEING THE UNSEEN: AN INTRODUCTION TO GEOPHYSICS (3-V-4)(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 147 or PERM/INST.

**Upper Division**

**GEOPH 300 PHYSICS OF THE EARTH (3-0-3)(F).** Introduction to the earth's gravity, magnetism, electricity, seismicity, heat, and radioactivity, with a discussion of the significance of these properties to geological processes. PRE/COREQ: PHYS 212.

**GEOPH 305 APPLIED GEOPHYSICS (3-0-3)(S).** Geophysical methods applied to the investigation of the subsurface, including instrumentation, data acquisition and reduction, survey design, and interpretation of data. Includes applications of seismic, gravimentric, magnetic, thermal, electrical, and electromagnetic techniques. Applications to energy and mineral exploration, as well as engineering design and construction. PREREQ: MATH 275, PHYS 212 or PERM/INST.

**GEOPH 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, GEOPH 201, and MATH 175.

**GEOPH 410 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: GEOPH 305.

**GEOPH 411 INTEGRATED RESERVOIR ANALYSIS (3-1-3)(S).** Integration of fundamentals and applications from geology, geophysics, and reservoir engineering to characterize petroleum and geothermal reservoirs. Students will work with real data and computer software to develop a reservoir. PREREQ: MATH 170 and GEOPH 201 or GEOS 315.

**GEOPH 420 GEOPHYSICAL APPLICATIONS OF DIGITAL SIGNAL PROCESSING (2-3-3)(F).** Review of digital linear system theory. Digital representation of geophysical data. Geophysical applications of convolution, fast-Fourier transform (FFT), correlations, least squares filters, deconvolution, multi-channel, and two-dimensional operations. Emphasis is on processing of seismic reflection data, potential field maps, and earthquake seismograms. Computer laboratory exercises. PREREQ: GEOPH 305, MATH 333.

**GEOPH 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.

**GEOPH 430 MATHEMATICAL METHODS IN GEOPHYSICS (2-2-3)(F/S).** Examination of important mathematical methods in geophysics. Topics depend on the interests of students and instructor. Emphasis is on problem-solving and the development of skills in applied mathematics. PREREQ: MATH 333 or PERM/INST.

**GEOPH 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: GEOPH 305. PRE/COREQ: MATH 333.

**GEOPH 460 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: GEOPH 305. PRE/COREQ: MATH 333.

**GEOPH 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: GEOPH 305. PRE/COREQ: MATH 333.

**GEOPH 466 SNOW AND ICE PHYSICS (3-0-3)(S)(Even years).** Physics of water in its solid form at a wide range of spatial and temporal scales. Micro-scale processes including formation of solid precipitation, deposition, metamorphism, sublimation, melt, transition to firn, and ice deformation. Medium-scale processes including snow redistribution, energy balance, stratigraphy, slope stability, and avalanche dynamics. Large-scale processes including snowmelt, regional avalanche forecasting, glacier/ice sheet hydrology, dynamics, ice core studies, permafrost and sea ice. PREREQ: MATH 175.

**GEOPH 467 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.

**GEOPH 480 RESEARCH IN GEOPHYSICS (1-3 credits)(F/S).** Individual research project carried out by the student in collaboration with and directed by a supervising member of the Geophysics faculty. May be repeated for up to 6 credits maximum. PREREQ: GEOS 100 or GEOS 101; COREQ: GEOPH 201 and PERM/INST.

**GEOPH 486 GEOPHYSICS FIELD CAMP (4 weeks-4 credits)(SU).** Field experience in significant geophysical mapping projects. Survey design and hands-on operation of seismic, magnetic, gravimetric, and electrical/electromagnetic field and borehole geophysical instrumentation. Reduction and interpretation of acquired data. Preparation of appropriate reports. PREREQ: GEOPH 300, GEOPH 305, GEOPH 420 or PERM/INST.

**GEOPH 495 SENIOR THESIS (4-6 credits)(F,S,SU).** Research study involving an original investigation in geophysics, 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 – Geoscience**

**Lower Division**

**GEOS 100 FUNDAMENTALS OF GEOLOGY (3-2-4)(F,S,SU)(DLN).** An introduction to the principles of physical and historical geology. Topics include weathering, erosion, glaciation, volcanism, earthquakes, rocks, minerals, maps, and the origin of the earth and its physical and biological development. Open to all students except those with previous credit in geology, or earth science majors and those nonscience majors who plan an eight-hour sequence in geology. Field trips required. Lab fee required. PREREQ: MATH 108 or MATH 123.

**GEOS 101 GLOBAL ENVIRONMENTAL SCIENCE (3-2-4)(F/S)(DLN).** Physical geographic approach to earth systems science. Overview of global climatology, hydrology, geomorphology, biogeography, and biogeochemical cycles. PREREQ: MATH 108 or MATH 123.

**GEOS 102 HISTORICAL GEOLOGY (3-3-4)(S).** A study of the origin and progressive development of the earth and evolution of plants and animals. Pre-historic life and fossil study as well as field trips to fossil beds are included in the laboratory work. Students may take either GEOS 102 or GEOS 103 for credit, but not both. Field trips required. PREREQ: MATH 108.

**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 GEOS 102 or GEOS 103 for credit, but not both.

**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: GEOS 100 or GEOS 101 and MATH 147 and declared major in Geoscience or Geophysics.

**GEOS 201 INTRODUCTION TO OCEANOGRAPHY (3-0-3)(F/S).** A general study of physiography, biological oceanography, and ocean geology, including the physiography, circulation patterns, waves, tides, and the sedimentation and biologic processes that occur in the various ocean environments. PREREQ: GEOG 100 or GEOS 100 or GEOS 101.

**GEOS 212 WATER IN THE WEST (3-V-4)(F).** 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: GEOS 100 or GEOS 101 and MATH 147 and declared major in Geoscience or Geophysics.

**GEOS 242 COMMUNICATION IN THE EARTH SCIENCES (3-0-3)(S)(CID).** 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 (or ENGL 112) and GEOS 100 or 101 and GEOS 200 or GEOS 212 or GEOPH 201 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: GEOS 100 or GEOS 101, ENGL 102 (or ENGL 112), and declared Geoscience, Geophysics, or Earth Science Education major. COREQ: MATH 147.

**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. PREREQ: GEOS 200. COREQ: CHEM 111 or PERM/INST.

**GEOS 305 EARTH'S CLIMATE: PAST, PRESENT, AND FUTURE (3-0-3)(F).** Examination of how and why the Earth's climate changes, and the major driving forces that control the climate on Earth. Concepts include feedback systems and how they influence climate, how climate change in the past is used to understand recent climate changes, and climate change in the future. PREREQ: GEOS 100 or GEOS 101 or GEOG 100.

**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. PRE/COREQ: GEOS 242.

**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 and MATH 147.

**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 313. COREQ: GEOS 300 or PERM/INST.

**GEOS 316 (CE 316) HYDROLOGY (3-0-3)(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 in more than one department. PREREQ: GEOS 212 and MATH 175, or PERM/INST.

**GEOS 324 PETROGRAPHY (0-3-1)(S).** Principles of optical mineralogy and a study of igneous and metamorphic rocks in thin section utilizing the polarizing microscope. The origins and histories of rocks are interpreted by examining their mineral assemblages, textures, fabrics, and alteration. PREREQ: GEOS 300. COREQ: GEOS 345.

**GEOS 330 QUATERNARY GEOCHRONOLOGY (3-0-3)(F/S).** Examine the methods used to establish the timing, duration and rates of geological and geoarchaeological events and processes within the last approximately two million years of Earth history, historically referred to as the Quaternary system or period. PREREQ: GEOS 100 or GEOS 101; COREQ: GEOS 200 or PERM/INST.

**GEOS 345 IGNEOUS AND METAMORPHIC PETROLOGY (2-2-3)(S).** Igneous and metamorphic rocks, emphasizing the physical and chemical processes that control their formation. PREREQ: CHEM 112. COREQ: GEOS 324.

**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 100 or GEOS 100 or GEOS 101 or GEOS 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: GEOS 102.

**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. This course may be taken for GEOG or GEOS credit, but not both.

**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: GEOS 324.

**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 or ENGR 330.

**GEOS 412 (CE 412) HYDROLOGY: FLOW IN GEOLOGIC SYSTEMS (3-0-3)(S).** Introduction to the hydrologic cycle focusing on subsurface water and its relationship 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 or ENGR 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 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. Filed trips required. PREREQ: GEOS 300.

**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.

**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 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)(F/S)(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 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 470 (GEOG 470) EARTH SYSTEM SCIENCE AND GLOBAL WARMING (3-0-3)(F/S).** Survey of interactions among physical biogeochemical processes involved in climate and climate feed back. Explore global warming scenarios for the next century and their reliability. This course may be taken for GEOG or GEOS credit, but not both. PREREQ: GEOS 201 or GEOG 331.

**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: GEOS 100 or GEOS 101; COREQ: GEOS 200 or GEOS 212 and PERM/INST.

**GEOS 482 GEOLOGY SUMMER FIELD CAMP (0-0-6)(SU).** Study of geology in its natural environment – the field. Geologic mapping, collection, plotting and analysis of data and mapping on aerial photograph and topographic base to solve field problems. Student should expect to be in the field 8-10 hours per day, 6 days per week for 4 weeks. Final product is professional quality comprehensive geologic report, map, and cross-section. 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).**

**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 programing learning goals. PREREQ: Geophysics, Geosciences, or Earth Science Education major with senior standing.

German — see Department of World Languages

Gerontology Minor — see Aging, Interdisciplinary Studies Program

Graphic Design — see Department of Art

Health Informatics and Information Management — see Department of Community and Environmental Health

Health Education and Promotion — see Department of Kinesiology

Health Science Studies — see Department of Community and Environmental Health

# Department of History

*College of Arts and Sciences*

Albertsons Library, Room 192 Phone: (208) 426-1255
http://history.boisestate.edu/
E-mail: BSUhistory@boisestate.edu

*Chair and Professor:* Jill Gill. *Professors:* Barbour, Brady, Klein, Woods. *Associate Professors:* Lubamersky, Wakild. *Assistant Professors:* Huntley, Pinto, Walker. *Lecturers:* Hadley, Krohn.

*Secondary Education Advisor and Professor:* John Bieter.

*Coordinator of Graduate Studies and Professor:* Lisa McClain.

*Director of the Arts and Humanities Institute and Professor:* Nick Miller.

*Director of The Idaho Center for the Study of Idaho History and Politics and Professor:* Todd Shallat.

## Degrees Offered

- Bachelor of Arts in History
- Bachelor of Arts in History, Secondary Education
- Bachelor of Arts in History, Social Science, Secondary Education
- Minor in History
- Minor in Refugee Studies

## Department Statement

The Department of History offers two baccalaureate degree programs: history, bachelor of arts (36 hours of history) and history, secondary education, bachelor of arts (45 hours of history; 32-38 hours of state teacher certification requirements). 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, secondary education, bachelor of arts degree prepares students for teaching careers.

The History, Social Science, Secondary Education major is a multidisciplinary education major constituting 30 credit hours of history, and lower- and upper-division work in geography, psychology, economics, sociology and political science, preparing students to achieve major certification to teach with minor endorsements to teach social studies and government.

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 outside of history.

## Degree Requirements

| History<br>Bachelor of Arts | |
|---|---|
| *Course Number and Title* | *Credits* |
| Foundational Studies Program requirements indicated in **bold**. See page 50 for details and lists of approved courses. | |
| **ENGL 101** Introduction to College Writing | 3 |
| **ENGL 102** Intro to College Writing and Research | 3 |
| **UF 100** Intellectual Foundations | 3 |
| **UF 200** Civic and Ethical Foundations | 3 |
| **DLM** Mathematics | 3-4 |
| **DLN** Natural, Physical, & Applied Sciences course with lab | 4 |
| **DLN** Natural, Physical, and Applied Sciences course | 3-4 |
| **DLV** Visual and Performing Arts | 3 |
| *Continued* | |

| *History continued* | |
|---|---|
| **DLL** ENGL 210, HUM 207, PHIL 101, PHIL 102, or PHIL 103 | 3 |
| **DLS** POLS 101 American National Government (recommended) | 3 |
| **DLS** Social Sciences course in a second field other than history | 3 |
| One 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 |
| Courses chosen from:<br>Only one U.S. History and one Western Civilization course may be used to satisfy this requirement.<br>HIST 101/201 or 102/202 History of Western Civilization<br>HIST 111/211 or 112/212 United States History<br>HIST 121 Eastern Civilizations<br>HIST 131 Survey of Latin America<br>HIST 141 History of the African Continent<br>HIST 151 Islamic Civilization | 12 |
| **CID** HIST 220 Introduction to the Study of History<br>Must be completed with a grade of C or better | 3 |
| European History course chosen from:<br>HIST 301 Ancient Greece<br>HIST 302 Ancient Rome<br>HIST 305 Medieval Europe<br>HIST 306 Popular Religion & Culture in Europe: 800-1600<br>HIST 308 The Age of Renaissance and Reformation<br>HIST 309 The Old Regime & the French Revolution<br>HIST 312 History of the British Isles to the English Civil War<br>HIST 313 History of England in Modern Times<br>HIST 316 Europe's Radical Nineteenth Century<br>HIST 317 Europe in War and Revolution, 1900 to 1945<br>HIST 318 The History of the Balkans Since 1453<br>HIST 319 Europe Since the Second World War<br>HIST 322 Saints and Sinners: Women in Christianity<br>HIST 323 The History of Marriage & the Family in Europe<br>HIST 324 History of Women in Early & Modern Europe<br>HIST 325 History of Socialism<br>HIST 326 History of the Holocaust<br>HIST 327 World War I<br>HIST 328 Stalinism<br>HIST 380 Colloquium in European History | 3 |
| History of the Americas course chosen from:<br>HIST 331 European Exploration of North America<br>HIST 332 Colonial America<br>HIST 334 Civil War and Reconstruction<br>HIST 338 History of American Foreign Relations<br>HIST 339 United States Military History: 1775-Present<br>HIST 341 The Indian in United States History<br>HIST 342 Western America<br>HIST 344 Women in America: Colonial Era to Present<br>HIST 346 Women in America: the Western Experience<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 361 Colonial Latin America<br>HIST 362 Modern Latin America<br>HIST 363 History of Mexico<br>HIST 381 Colloquium in the History of the Americas | 3 |
| Non-Western History course chosen from:<br>HIST 366 History of Modern Africa: 1750-Present<br>HIST 368 The Islamic Middle East<br>HIST 369 The Modern Middle East<br>HIST 371 History of Mod South Asia: India, Pakistan, Burma<br>HIST 372 The History of Modern Southeast Asia<br>HIST 373 The History of Modern China<br>HIST 378 The Making of Modern Japan<br>HIST 382 Colloquium in non-Western History | 3 |
| *Continued* | |

| *History continued* | |
|---|---|
| Additional upper-division history courses | 9 |
| **FF** HIST 498 Senior Research Seminar | 3 |
| Upper-division electives to total 40 credits | 19 |
| Electives to total 120 credits | 21-23 |
| *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 http://education.boisestate.edu. Students must meet all knowledge, skill, and disposition requirements to remain in the program.

## History, Secondary Education Bachelor of Arts

| *Course Number and Title* | *Credits* |
|---|---|
| Foundational Studies Program requirements indicated in **bold**. See page 50 for details and lists of approved courses. | |
| **ENGL 101** Introduction to College Writing | 3 |
| **ENGL 102** Intro to College Writing and Research | 3 |
| **UF 100** Intellectual Foundations | 3 |
| **UF 200** Civic and Ethical Foundations | 3 |
| **DLM** MATH 123 Quantitative Reasoning (recommended) | 3-4 |
| **DLN** Natural, Physical, & Applied Sciences course with lab | 4 |
| **DLN** Natural, Physical, and Applied Sciences course | 3-4 |
| **DLV** Visual and Performing Arts | 3 |
| **DLL** ENGL 210, HUM 207, PHIL 101, PHIL 102, or PHIL 103 | 3 |
| **DLS** ED-CIFS 201 Foundations of Education | 3 |
| **DLS** 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. | |
| *Continued* | |

| *History, Secondary Education continued* | |
|---|---|
| One 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 111/211 United States History | 3 |
| HIST 112/212 United States History | 3 |
| **CID** HIST 220 Introduction to the Study of History or<br>**CID** HIST 222 Intro to the Study & Teaching of History (preferred)<br>(Must be completed with a grade of C or better) | 3 |
| Courses chosen from:<br>HIST 101/201 or 102/202 History of Western Civilization<br>HIST 121 Eastern Civilizations<br>HIST 131 Survey of Latin America<br>HIST 141 History of the African Continent<br>HIST 151 Islamic Civilization | 12 |
| European History course chosen from:<br>HIST 301 Ancient Greece<br>HIST 302 Ancient Rome<br>HIST 305 Medieval Europe<br>HIST 306 Popular Religion & Culture in Europe: 800-1600<br>HIST 308 The Age of Renaissance and Reformation<br>HIST 309 The Old Regime & the French Revolution<br>HIST 312 History of the British Isles to the English Civil War<br>HIST 313 History of England in Modern Times<br>HIST 316 Europe's Radical Nineteenth Century<br>HIST 317 Europe in War and Revolution, 1900 to 1945<br>HIST 318 The History of the Balkans Since 1453<br>HIST 319 Europe Since the Second World War<br>HIST 322 Saints and Sinners: Women in Christianity<br>HIST 323 The History of Marriage & the Family in Europe<br>HIST 324 History of Women in Early & Modern Europe<br>HIST 325 History of Socialism<br>HIST 326 History of the Holocaust<br>HIST 327 World War I<br>HIST 328 Stalinism<br>HIST 380 Colloquium in European History | 3 |
| History of the Americas course chosen from:<br>HIST 331 European Exploration of North America<br>HIST 332 Colonial America<br>HIST 334 Civil War and Reconstruction<br>HIST 338 History of American Foreign Relations<br>HIST 339 United States Military History: 1775-Present<br>HIST 341 The Indian in United States History<br>HIST 342 Western America<br>HIST 344 Women in America: Colonial Era to Present<br>HIST 346 Women in America: the Western Experience<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 361 Colonial Latin America<br>HIST 362 Modern Latin America<br>HIST 363 History of Mexico<br>HIST 381 Colloquium in the History of the Americas | 3 |
| Non-Western History course chosen from:<br>HIST 366 History of Modern Africa: 1750-Present<br>HIST 368 The Islamic Middle East<br>HIST 369 The Modern Middle East<br>HIST 371 History of Mod South Asia: India, Pakistan, Burma<br>HIST 372 The History of Modern Southeast Asia<br>HIST 373 The History of Modern China<br>HIST 378 The Making of Modern Japan<br>HIST 382 Colloquium in non-Western History | 3 |
| Additional upper-division history courses | 12 |
| **FF** HIST 498 Senior Research Seminar | 3 |
| *Total* | 120-122 |

## History, Social Science, Secondary Education Bachelor of Arts

| *Course Number and Title* | *Credits* |
|---|---|
| Foundational Studies Program requirements indicated in **bold**. See page 50 for details and lists of approved courses. | |
| **ENGL 101** Introduction to College Writing | 3 |
| **ENGL 102** Intro to College Writing and Research | 3 |
| **UF 100** Intellectual Foundations | 3 |
| **UF 200** Civic and Ethical Foundations | 3 |
| **DLM** Mathematics | 3-4 |
| **DLN** Natural, Physical, & Applied Sciences course with lab | 4 |
| **DLN** Natural, Physical, and Applied Sciences course | 3-4 |
| **DLV** Visual and Performing Arts | 3 |
| **DLL** Foreign Language course | 3-4 |
| **DLS** ED-CIFS 201 Foundations of Education | 3 |
| **DLS** 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. | |
| Additional course in the same foreign language as used to satisfy the **DLL** requirement to equal one 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 111/211 United States History | 3 |
| HIST 112/212 United States History | 3 |
| **CID** HIST 220 Introduction to the Study of History or<br>**CID** HIST 222 Intro to the Study & Teaching of History (preferred)<br>(Must be completed with a grade of C or better) | 3 |
| Courses chosen from:<br>HIST 101/201 or 102/202 History of Western Civilization<br>HIST 121 Eastern Civilizations<br>HIST 131 Survey of Latin America<br>HIST 141 History of the African Continent<br>HIST 151 Islamic Civilization | 9 |

*Continued*

*History, Social Science, Secondary Education continued*

| | |
|---|---|
| European History course chosen from:<br>HIST 301 Ancient Greece<br>HIST 302 Ancient Rome<br>HIST 305 Medieval Europe<br>HIST 306 Popular Religion & Culture in Europe: 800-1600<br>HIST 308 The Age of Renaissance and Reformation<br>HIST 309 The Old Regime & the French Revolution<br>HIST 312 History of the British Isles to the English Civil War<br>HIST 313 History of England in Modern Times<br>HIST 316 Europe's Radical Nineteenth Century<br>HIST 317 Europe in War and Revolution, 1900 to 1945<br>HIST 318 The History of the Balkans Since 1453<br>HIST 319 Europe Since the Second World War<br>HIST 322 Saints and Sinners: Women in Christianity<br>HIST 323 The History of Marriage & the Family in Europe<br>HIST 324 History of Women in Early & Modern Europe<br>HIST 325 History of Socialism<br>HIST 326 History of the Holocaust<br>HIST 327 World War I<br>HIST 328 Stalinism<br>HIST 380 Colloquium in European History | 3 |
| History of the Americas course chosen from:<br>HIST 331 European Exploration of North America<br>HIST 332 Colonial America<br>HIST 334 Civil War and Reconstruction<br>HIST 338 History of American Foreign Relations<br>HIST 339 United States Military History: 1775-Present<br>HIST 341 The Indian in United States History<br>HIST 342 Western America<br>HIST 344 Women in America: Colonial Era to Present<br>HIST 346 Women in America: the Western Experience<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 361 Colonial Latin America<br>HIST 362 Modern Latin America<br>HIST 363 History of Mexico<br>HIST 381 Colloquium in the History of the Americas | 3 |
| Non-Western History course chosen from:<br>HIST 366 History of Modern Africa: 1750-Present<br>HIST 368 The Islamic Middle East<br>HIST 369 The Modern Middle East<br>HIST 371 History of Mod South Asia: India, Pakistan, Burma<br>HIST 372 The History of Modern Southeast Asia<br>HIST 373 The History of Modern China<br>HIST 378 The Making of Modern Japan<br>HIST 382 Colloquium in non-Western History | 3 |
| **FF** HIST 498 Senior Research Seminar | 3 |
| Social Science field other than history (political science will need only 18 credits over those already required. Economics and sociology will require 21 credits) | 18-21 |
| Upper-division electives to total 40 credits | 0-11 |
| *Total* | 120-122 |

## History Minor

| *Course Number and Title* | *Credits* |
|---|---|
| History courses chosen from the following:<br>HIST 101, 102* History of Western Civilization or<br>HIST 201, 202* Problems in Western Civilization<br>HIST 111, 112* United States History or<br>HIST 211, 212* Problems in U.S. History<br>HIST 121 Eastern Civilizations<br>HIST 131 Survey of Latin America<br>HIST 141 History of the African Continent<br>HIST 151 Islamic Civilization<br>*Only one Western Civilization and one U.S. History course may be used to satisfy this requirement | 9 |

*Continued*

| *History Minor continued* | |
|---|---|
| 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

| *Course Number and Title* | *Credits* |
|---|---|
| World History Survey courses chosen from the following:<br>HIST 101, HIST 102 History of Western Civilization or HIST 201, HIST 202 Problems in Western Civilization<br>HIST 121 Eastern Civilizations<br>HIST 131 Survey of Latin America<br>HIST 141 History of the African Continent<br>HIST 151 Islamic Civilization | 6 |
| HIST 111/HIST 211 United States History | 3 |
| HIST 112/HIST 212 United States History | 3 |
| POLS 101 American National Government | 3 |
| Upper-division history courses selected from at least two 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

| *Course Number and Title* | *Credits* |
|---|---|
| HIST 310 World-Wide Diaspora: Causes and Consequences of the Modem Refugee Crisis | 3 |
| REFUGEE 407 (SOCWRK 407) Principles of Refugee Resettlement | 3 |
| 493 Internship: Working with Refugees | 3 |
| Electives in at least four 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>DISPUT 402 Culture and Conflict<br>ECON 315 Global Economic Development<br>ED-LLC 200 Cultural Diversity in the School<br>ENGL 216 Cultural Exchange in Transnational Literatures<br>ENGL 396 Postcolonial Literature<br>ENVHLTH 102 (HLTHST 102) Global Environmental Health<br>GENDER 300 Introduction to Gender Studies<br>GEOG 200 World Regional Geography<br>HIST 366 History of Modern Africa: 1750-Present<br>HIST 369 History of Modem Middle East<br>HIST 372 The History of Modem Southeast Asia<br>HLTHST 304 Public Health<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

**See page 63 for a definition of the course-numbering system.**

**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 100 THEMES IN WORLD HISTORY (3-0-3)(F,S)(DLL).** Uses a major theme in history to introduce methods of historical interpretation and to explore issues, developments and trends across time and place. Theme varies by instructor.

**HIST 101 HISTORY OF WESTERN CIVILIZATION (3-0-3)(F,S,SU)(DLL).** 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 B.C. up through the cultural renaissance and religious reformation of western Europe in the sixteenth and seventeenth centuries of the Christian era.

**HIST 102 HISTORY OF WESTERN CIVILIZATION (3-0-3)(F/S)(DLL).** 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 up through the worldwide expansion of western culture in the twenty-first century of the modern era. Emphasis on interpreting texts expressive of human experience.

**HIST 111 UNITED STATES HISTORY (3-0-3)(F,S).** Surveys American society from pre-Columbian times through the Civil War era, with emphasis on the formative issues and conflicts that shape national politics and culture.

**HIST 112 UNITED STATES HISTORY (3-0-3)(F,S).** 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 EASTERN CIVILIZATIONS (3-0-3)(F,S)(DLS).** 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 SURVEY OF LATIN AMERICA (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 HISTORY OF THE AFRICAN CONTINENT (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 201 PROBLEMS IN WESTERN CIVILIZATION (3-0-3)(F/S).** Selected historiographical problems the researcher encounters when interpreting the history of western civilization from ancient Near Eastern to early modern European times. Not open to students with credit in HIST 101. PREREQ: Admission to the Honors College or PERM/INST.

**HIST 202 PROBLEMS IN WESTERN CIVILIZATION (3-0-3)(F/S).** Selected historiographical problems the researcher encounters when interpreting the history of western civilization from early modern European times to the present. Not open to students with credit in HIST 102. PREREQ: Admission to the Honors College or PERM/INST.

**HIST 211 PROBLEMS IN US HISTORY (3-0-3)(F).** Selected problems from colonial times through reconstruction following the Civil War. Not open to students who have completed HIST 111. PREREQ: Admission to the Honors College or PERM/INST.

**HIST 212 PROBLEMS IN US HISTORY (3-0-3)(S).** Selected problems from the rise of industrialism after the Civil War to the present. Not open to

students who have completed HIST 112. PREREQ: Admission to the Honors College or PERM/INST.

**HIST 220 INTRODUCTION TO THE STUDY OF HISTORY (3-0-3)(F,S) (CID).** 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 (or ENGL 112).

**HIST 222 INTRODUCTION TO THE STUDY AND TEACHING OF HISTORY (3- 0-3)(F/S)(CID).** Designed for History, Secondary Education and History, Social Studies Secondary Education majors, this course focuses on the skills developed in the study of history and diverse methods for designing and teaching unit lesson plans across the curriculum. PREREQ: ENGL 102 (or ENGL 112), History, Secondary Education or History, Social Studies, Secondary Education major.

**Upper Division**

**HIST 301 ANCIENT GREECE (3-0-3)(SU).** A study of the ancient Greek world from the Minoan sea empire of the second millennium to the empire of Alexander the Great in the late fourth century B.C. Political, economic, and cultural history are emphasized with special attention given to the outstanding achievements of the Greeks in political and philosophical thought, epic and dramatic poetry, historical writing, and visual arts. PREREQ: At least one CID course in any discipline and upper-division standing.

**HIST 302 ANCIENT ROME (3-0-3)(F).** A survey of Rome from its earliest beginnings under Etruscan tutelage through its late imperial phase in the fifth century of the Christian era. Emphasis on political and military developments, social and religious changes, outstanding personalities and literary, legal and artistic achievements. PREREQ: At least one CID course in any discipline and upper-division standing.

**HIST 305 MEDIEVAL EUROPE (3-0-3)(F/S).** A survey of the political, religious, economic, and cultural development of Western Europe from the fourth to the fourteenth century. Special emphasis given to the Constantinian revolution, the rise and elaboration of monasticism, the Carolingian empire, feudalism and chivalry, the Gregorian papacy, and the outstanding cultural achievements of the twelfth century renaissance. PREREQ: At least one CID course in any discipline and upper-division standing.

**HIST 306 POPULAR RELIGION AND CULTURE IN EUROPE, 800-1600 (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: HIST 101, at least one CID course in any discipline, and 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: At least one CID course in any discipline and 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: At least one CID course in any discipline and upper-division standing.

**HIST 310 WORLD-WIDE DIASPORA: CAUSES AND CONSEQUENCES OF THE MODERN REFUGEE CRISIS (3-0-3)(F/S) (ALTERNATE YEARS).** An introduction to the issues associated with forced migration in the twentieth and twenty-first centuries. Topics considered will include the political, economic, social, and cultural causes and effects of forced migration. The course will consider the refugee crisis on a global scale. It will begin with the examination of the history of refugee crises and the evolution of legal treatment of the issue, and then dive into case studies drawn from all comers of the globe, and chosen to allow deeper analysis of particular issues.

**HIST 312 HISTORY OF THE BRITISH ISLES TO THE ENGLISH CIVIL WAR (3-0-3)(F/S).** Survey of political, economic, cultural and religious history of the British Isles with emphasis on England from Roman antiquity to the English Civil War. PREREQ: At least one CID course in any discipline and upper-division standing.

**HIST 313 HISTORY OF ENGLAND IN MODERN TIMES (3-0-3)(F/S).** Survey of the political, economic, cultural and religious history of England and the United Kingdom from the late seventeenth to the early twenty-first century. PREREQ: At least one CID course in any discipline and upper-division standing.

**HIST 316 EUROPE'S RADICAL NINETEENTH CENTURY (3-0-3)(F/S).** Exploration of new forms of government, economics, society, and identity, with emphasis on revolutionary change. PREREQ: at least one CID course in any discipline and upper-division standing.

**HIST 317 EUROPE IN WAR AND REVOLUTION, 1900 TO 1945 (3-0-3) (F/S).** Exploration of transition into 20th century, opening with strikes and disorder, followed by war, economic and social dislocation, and revolution, leading to dictatorships and further warfare. PREREQ: at least one CID course in any discipline and upper-division standing.

**HIST 318 THE HISTORY OF THE BALKANS SINCE 1453 (3-0-3)(F/S).** History of the southeast European region since 1453 and will evaluate Ottoman rule in the Balkan peninsula, the collapse of Ottoman authority, and the rise of the independent nation-states of Bulgaria, Serbia, Albania, Greece, and Romania. PREREQ: At least one CID course in any discipline and upper-division standing.

**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: at least one CID course in any discipline and 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: At least one CID course in any discipline and 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: At least one CID course in any discipline and upper-division standing.

**HIST 324 THE HISTORY OF WOMEN IN EARLY MODERN AND MODERN EUROPE (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: At least one CID course in any discipline and 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: At least one CID course in any discipline and 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: At least one CID course in any discipline and 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: at least one CID course in any discipline and upper-division standing.

**HIST 328 STALINISM (3-0-3)(F/S).** The history of the political system created by Joseph Stalin. The course will examine Stalinism's origins, development, and spread from the 1920s to the fall of communism in 1989, as well as its cultural, economic, and social dimensions. PREREQ: at least one CID course in any discipline and upper-division standing.

**HIST 331 EUROPEAN EXPLORATION OF NORTH AMERICA (3-0-3) (F/S).** North American exploration from the pre-Columbian era through the late 19th century: imperial rivalries, economic interests, technological advances, the development of "modern" science, government-assisted expeditions, and the

modern legacies of these processes are studied. PREREQ: At least one CID course in any discipline and upper-division standing.

**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, at least one CID course in any discipline, 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, at least one CID course in any discipline, and upper-division standing.

**HIST 338 HISTORY OF AMERICAN FOREIGN RELATIONS (3-0-3) (F/S).** History of United States foreign relations from independence to the present. Course will emphasize the role of ideology, the working of the international system, and American expansion into a global superpower. HIST 111, 112 recommended. PREREQ: At least one CID course in any discipline and 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: At least one CID course in any discipline and upper-division standing.

**HIST 341 THE INDIAN IN UNITED STATES 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: At least one CID course in any discipline and upper-division standing.

**HIST 342 WESTERN AMERICA (3-0-3)(F/S).** The frontier as a region in transit from the Atlantic seaboard to the Pacific coast, but largely the settlement and development of the Trans-Mississippi West. HIST 111 recommended. PREREQ: At least one CID course in any discipline and upper-division standing.

**HIST 344 WOMEN IN AMERICA FROM THE COLONIAL ERA TO THE PRESENT (3-0-3)(F/S).** A survey of the changing roles, experiences and contributions of women to American history from the seventeenth century to the present. Emphasis on race, class, and ethnicity. Designed to introduce the student to some of the major issues in women's history and to understand how changes in women's lives are related to other changes in American history. PREREQ: At least one CID course in any discipline and upper-division standing.

**HIST 346 WOMEN IN AMERICA: THE WESTERN EXPERIENCE (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: At least one CID course in any discipline and 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: At least one CID course in any discipline and 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: At least one CID course in any discipline and 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: At least one CID course in any discipline and upper-division standing.

**HIST 350 (ECON 350) UNITED STATES ECONOMIC HISTORY (3-0-3) (S)(Alternate years).** 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. May be taken for either ECON or HIST credit, but not both. PREREQ: Admission to COBE or B.A. Economics major or B.A. Economics, Social Studies, Secondary Education Emphasis major or Economics, Social Science, Secondary Education Minor, ECON 201 and ECON 202.

**HIST 351 NORTH AMERICAN ENVIRONMENTAL HISTORY (3-0-3) (F/S).** Examines historical issues concerning the relationships between humans and nature in North America. Explores the role of nature in North American colonization and industrialization and the development of philosophies, government and public policies, and popular culture relating to the natural environment. PREREQ: At least one CID course in any discipline and 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: At least one CID course in any discipline and upper-division standing.

**HIST 361 COLONIAL LATIN AMERICA (3-0-3)(F/S).** A study of the development of distinctive Latin American societies through the fusion of late medieval Iberian with American and African cultures in Middle and South America, with emphasis upon the creation of colonial institutions in the context of Spain's and Portugal's imperial rise and decline and the early nineteenth century wars of independence. HIST 102 recommended. PREREQ: At least one CID course in any discipline and upper-division standing.

**HIST 362 MODERN LATIN AMERICA (3-0-3)(F/S).** An examination of Latin America 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 112 recommended. PREREQ: At least one CID course in any discipline and upper-division standing.

**HIST 363 HISTORY OF MEXICO (3-0-3)(F/S).** Cultural, social, political, and economic factors affecting the historical development of Mexico from pre-conquest times to the present, with emphasis upon the conquest era, the revolution, and post-revolutionary periods. HIST 361 recommended. PREREQ: At least one CID course in any discipline and upper-division standing.

**HIST 366 HISTORY OF MODERN AFRICA: 1750-PRESENT (3-0-3) (F/S).** History of the African continent from 1750 to the present with emphasis on the sub-Saharan regions, including the slave trade, its abolition, the pre-colonial eras, independence movements, and the emergence of the modern African state. Mediterranean, black, and white African states will be included. PREREQ: At least one CID course in any discipline and 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: At least one CID course in any discipline and 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: At least one CID course in any discipline and upper-division standing.

**HIST 371 HISTORY OF MODERN SOUTH ASIA: INDIA, PAKISTAN AND BURMA FROM 1750 TO THE PRESENT (3-0-3)(F/S).** The Mughal empire, its decline; the rise of British power, its social, political, and economic impact; South Asian reaction to British rule; the rise of nationalism and independence; and Indian and Pakistani history since 1947. PREREQ: At least one CID course in any discipline and upper-division standing.

**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: At least one CID course in any discipline and upper-division standing.

**HIST 373 THE HISTORY OF MODERN CHINA (3-0-3)(F).** China's transition from the Quin 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: At least one CID course in any discipline and upper-division standing.

**HIST 375 LIVING RELIGIONS: A COMPARATIVE HISTORICAL STUDY (3-0-3)(S).** A comparative analysis of the major active religious traditions of the world, treating their historical development, philosophical foundations, and social and political ramifications, especially in modern times, with emphasis on Islam, Hinduism, Buddhism, Taoism, Shinto, Judaism, and Christianity. HIST 121 recommended. PREREQ: At least one CID course in any discipline and 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 through such issues as fire, agriculture, industrialization, consumerism and colonialism on all seven continents. PREREQ: At least one CID course in any discipline and 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 cataclysm of violence in 1945. Discusses tactics, technology, the Holocaust, and the various home fronts. PREREQ: At least one CID course in any discipline and upper-division standing.

**HIST 378 THE MAKING OF MODERN JAPAN (3-0-3)(F,S,SU).** This course will examine 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).

**HIST 380 COLLOQUIUM 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. PREREQ: At least one CID course in any discipline and upper-division standing.

**HIST 381 COLLOQUIUM 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. PREREQ: At least one CID course in any discipline and upper-division standing.

**HIST 382 COLLOQUIUM 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. PREREQ: At least one CID course in any discipline and 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.

History of Art and Visual Culture — see Department of Art

# Honors College

Driscoll Hall
www.boisestate.edu/honors
Phone: (208) 426-1122
Fax: (208) 426-1247

*Dean:* Andrew Finstuen. *Assistant Director:* Annal Frenz.
*Activities Coordinator:* Christopher Hyer.

## 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 University. All applicants must submit an application essay and a resume demonstrating a clear record of extra-curricular experiences, activities, and achievements. Additionally, for students coming directly from high school, admission to the college requires a 3.5 high-school cumulative GPA and strong performance on ACT or SAT examinations, 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. 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. In addition to the GPA and honors work requirements, students must attend a minimum of three honors events or activities as part of the Passport Program. Students who fail to attend three events for two consecutive semesters will be withdrawn from the Honors College. 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.

To apply and for additional information, visit the Honors College website: honors.boisestate.edu.

## Other Features

Students may apply to live in Driscoll Hall, a residence hall dedicated to honors students, where they can both study and socialize together. Beyond the residence hall, the Honors College enables all its students to become actively engaged in the academic, social, multi-cultural, 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

Several renewable Brown Honors Scholarship awards are available each year for incoming first-year honors students. The College also has various other scholarships which it awards to incoming, continuing, and transfer students based on academic merit, participation, and co-curricular activities. The Distinguished Scholars Committee of the Honors College will also assist students in applying for outside scholarships such as the Fulbright, Rhodes, Goldwater, Truman, and the Gates Cambridge Scholarship.

## Honors Graduation

Students can graduate from the Honors College in three ways: an associate track, graduate track I, and graduate track II. The associate track requires 17-19 credits of honors coursework. The graduate track I requires 23-25 credits of honors coursework. The graduate track II requires 26-28 credits of honors coursework.

In addition to those courses offered directly by the Honors College, Honors students must complete UF 200 Honors Civic and Ethical Foundations, ENGL 112 Honors Writing and Research, and 6 to 9 credits of honors disciplinary lens courses. Consult current online class search for specific honors sections of disciplinary lens classes.

| Honors Associate Track | |
|---|---|
| *Course Number and Title* | *Credits* |
| Foundational Studies Program requirements indicated in **bold**. See page 50 for details and lists of approved courses. | |
| HONORS 198 Honors Seminar | 1 |
| **ENGL 112** Honors Writing and Research | 3 |
| **UF 200** Civil and Ethical Foundations (honors section) | 3 |
| **DLL, DLM, DLN, DLS, DLV** (honors sections) | 6-8 |
| HONORS 392 Honors Colloquia | 3 |
| HONORS 498 Seminar | 1 |
| *Total* | 17-19 |

| Honors Graduate Track I | |
|---|---|
| *Course Number and Title* | *Credits* |
| Foundational Studies Program requirements indicated in **bold**. See page 50 for details and lists of approved courses. | |
| HONORS 198 Honors Seminar | 1 |
| **ENGL 112** Honors Writing and Research | 3 |
| **UF 200** Civil and Ethical Foundations (honors section) | 3 |
| **DLL, DLM, DLN, DLS, DLV** (honors sections) | 9-11 |
| HONORS 392 Honors Colloquia | 6 |
| HONORS 498 Seminar | 1 |
| *Total* | 23-25 |

| Honors Graduate Track II | |
|---|---|
| *Course Number and Title* | *Credits* |
| Foundational Studies Program requirements indicated in **bold**. See page 50 for details and lists of approved courses. | |
| HONORS 198 Honors Seminar | 1 |
| **ENGL 112** Honors Writing and Research | 3 |
| **UF 200** Civil and Ethical Foundations (honors section) | 3 |
| **DLL, DLM, DLN, DLS, DLV** (honors sections) | 9-11 |
| HONORS 391 Prospectus Preparation for Senior Honors Project | 1 |
| HONORS 392 Honors Colloquia | 6 |
| HONORS 491 Senior Honors Project | 3 |
| *Total* | 26-28 |

## Course Offerings

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 100, 200, 300, 400 SUMMER READING (1-3 credits)(F).** An opportunity for students to continue their studies during the summer when they are away from campus and faculty. Students must select their area of interest, contact a faculty supervisor and coordinate through the Honors College Director concerning testing and credit for the work prior to the end of the spring semester. Students will register during fall registration and will complete written and oral testing as required no later than October 15 to receive a letter grade.

**HONORS 198, 298, 398, 498 HONORS SEMINAR (1 credit)(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 391 PROSPECTUS PREPARATION FOR SENIOR HONORS PROJECT (1 credit)(F/S).** The student will prepare a prospectus for the Senior Honors Project, consisting of three parts: a description of the proposed project, a preliminary bibliography, and a topical or procedural outline.

**HONORS 392 HONORS COLLOQUIUM (3 credits)(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.

**HONORS 491 SENIOR HONORS PROJECT (3 credits)(F/S).** A Senior Honors Project is required of all students wishing to graduate with the designation Honors Scholar. Such a project will be the result of significant individual effort by the student, with appropriate faculty supervision. The project may involve library, laboratory, or fieldwork; or a creative activity if appropriate to the discipline as determined by the department involved and the Director of the Honors College.

Human Biology — see Department of Biological Sciences

Human Resource Management — see Department of Management

Humanities — see Department of English

Hydrology — see Department of Geosciences

Illustration — see Department of Art

# IDoTeach STEM Teaching Certification

*College of Arts and Sciences/College of Education*

Academic and Career Services Building, Room 214 Phone: (208) 426-2856
http://idoteach.boisestate.edu
E-mail: louisnadelson@boisestate.edu

*Co-directors:* Michele Carney, Henry A. Charlier, Jyh-haw Yeh.

## 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
- Geosciences
- Mathematics
- Physics

## Admission Requirements

1. Initial Application Package — due before enrolling in STEM-ED 310:
   - A completed application form (http://idoteach.boisestate.edu/teachered)
   - Successfully complete STEP 1 and STEP 2 with B or higher
   - Fingerprint/background check
   - A transcript indicating the completion of prerequisite coursework
   - PRAXIS I Writing score of 172 or higher
   - A minimum cumulative grade-point average of 2.75
   - A minimum grade-point average of 2.75 in all major content courses
   - A minimum grade-point average of 3.00 in all education courses
   - Interview with content discipline faculty and IDoTeach team

A hard copy of the Initial Application delivered to the IDoTeach Program in the ACCS, room 214.

2. Deadline:
   - First Friday in April for fall semester admission
   - Third Friday in October for spring semester admission
3. Apprenticeship Application:
   - Fingerprint/background check
   - A minimum cumulative grade-point average of 2.75
   - A minimum grade-point average of 2.75 in all major content courses
   - A minimum grade-point average of 2.75 in all education courses
   - Successful completion of the PRAXIS II exam for each area of endorsement
4. Secondary Education Certification Requirements — Submitted upon completion of program.
   - Students from Boise State 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
   - Successful completion of the PRAXIS I for writing (minimal score = 172). For information please access the PRAXIS* website at www.ets.org/praxis/
   - Completed Institutional Recommendation from Office of IDoTeach
   - 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.

## Course Offerings

**See page 63 for a definition of the course-numbering system.**

**STEM-ED – STEM Education**

**STEM-ED 101 STEP 1: INQUIRY APPROACHES TO TEACHING (1-0-1)(F/S).** Theory and practice necessary to design and deliver inquiry-based math and science instruction. Explore and practice the guided inquiry process, create lesson plans and implement them during visits to elementary classrooms. Fieldwork required.

**STEM-ED 102 STEP 2: INQUIRY-BASED LESSON DESIGN (1-0-1) (F/S).** Continuation of STEM-ED 101. Develop skills in designing, teaching, analyzing, and assessing inquiry-based math and science lessons. Create lesson plans and implement them during visits to middle school classrooms. Fieldwork required. PREREQ: STEM-ED 101.

**STEM-ED 210 KNOWING AND LEARNING IN MATHEMATICS AND SCIENCE (3-0-3)(F)(DLS).** Introduction to theories and principles of cognition and learning and research on learning, memory, individual development, motivation and intelligence. Design lesson plans, instruction and assessment applying learning theory. Emphasis in mathematics and science learning. PREREQ: STEM-ED 101. COREQ: STEM-ED 102.

**STEM-ED 220 PERSPECTIVES ON SCIENCE AND MATHEMATICS (2-3-3)(F)(DLL).** Introduction to the historical, social, and philosophical implications of math and science. Laboratory focuses on replication of significant discoveries. PREREQ: STEM-ED 210.

**STEM-ED 310 CLASSROOM INTERACTIONS (3-0-3)(S).** Apply learning theories in instructional settings. Develop, implement and evaluate activities and strategies for teaching diverse student populations. Fieldwork required. PREREQ: Admission to IDoTeach Program, STEM-ED 210.

**STEM-ED 350 RESEARCH METHODS (1-6-3)(S).** Introduction to laboratory-based methods used by scientists and mathematicians with an application to math and science 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).** Course focuses on preparing and enhancing the capacity to act as a peer tutor. For students involved in the Learning Assistant peer tutoring program. May be repeated for credit.

**STEM-ED 410 PROJECT-BASED INSTRUCTION (3-0-3)(F).** Methods used to implement and assess problem-based investigations in math and science classrooms. Fieldwork required. PREREQ: Admission to apprenticeship, STEM-ED 310.

**STEM-ED 480 APPRENTICE TEACHING (0-15-6)(S).** Teaching in the classroom under the mentorship of a teacher in the field. Fieldwork required. PREREQ: Admission to apprenticeship, STEM-ED 350, STEM-ED 410.

# Industrial Engineering Minor

*College of Business and Economics/College of Engineering*

Engineering Building, Room 301C Phone: (208) 426-5719
E-mail: amoll@boisestate.edu

*Coordinator:* Amy Moll. *Advisors:* Information Technology and Supply Chain Management: Kroes; Materials Science and Engineering: Frary, Watson; Mechanical and Biomedical Engineering: 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* |
| BUSSTAT 207 Statistical Techniques for Decision Making I or<br>MATH 254 Applied Statistics with Computers or<br>MATH 360 Engineering Statistics or<br>MATH 361 Probability and Statistics I | 3 |
| CMGT 417 Project Scheduling or<br>SCM 435 Project Management | 3 |
| ENGR 360 Engineering Economy | 3 |
| SCM 345 Principles of Operations Management | 3 |
| SCM 380 Quality Management and Lean Process Improvement | 3 |
| One of the following engineering electives:<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 215 Materials Processing | 3 |
| One of the following supply chain management electives:<br>SCM 366 Supply Chain Modeling<br>SCM 410 Supply Chain Transportation and Distribution<br>SCM 420 Creating Sustainable Goods and Services | 3 |
| *Total* | 21 |
| 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. | |

# Department of Information Technology and Supply Chain Management

*College of Business and Economics*

Micron Business and Economics Building, Room 3248 Phone: (208) 426-1181
http://cobe.boisestate.edu/itscm/
E-mail: itscm@boisestate.edu

*Chair and Professor:* Tom Gattiker. *Professors:* Anson, P. Fry, Minch, Shannon, Tabor. *Associate Professors:* Chenoweth, Corral, Terpend. *Assistant Professors:* Kroes, Scott. *Lecturers:* S. Fry, Wilkerson.

## Degrees Offered

- Bachelor of Business Administration in Information Technology Management
- Bachelor of Business Administration in Supply Chain Management
- Minor in Information Technology Management
- Minor in Supply Chain Management

## 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.

### Information Technology Management (ITM)

Information Technology Management 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 their technical skills. Such a balance between technical and management skills differentiates the ITM major from other technical majors such as engineering or computer science. The ITM program features hands-on, real-world, experiential learning in course- and self-directed projects with local organizations. Employers have 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 (SCM)

Supply Chain Management, 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, SCM 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) must be admitted to the college. Admission to COBE is required before a student may enroll in most upper-division business and economics courses. See page 13 for exceptions to these requirements.

Admission to COBE is competitive and based on various academic criteria such as overall GPA, performance in gateway courses, and other business and economics courses. Meeting the criteria does not guarantee admission. Please see the COBE advising website: http://cobe.boisestate.edu/studentadvising/

to obtain specific information about the application process and application deadlines.

To be considered for admission, students must:

- Complete each of the following gateway courses with a grade of C- or better:
  - ACCT 205 Introduction to Financial Accounting
  - ACCT 206 Introduction to Managerial Accounting
  - BUSCOM 201 Business Communication
  - BUSSTAT 207 Statistical Techniques for Decision Making I
  - ECON 201 Principles of Macroeconomics
  - ECON 202 Principles of Microeconomics
  - GENBUS 101 Business for the New Generation
  - ITM 104 Operating Systems and Word Processing Topics
  - ITM 105 Spreadsheet Topics
  - MATH 160 Survey of Calculus
- Meet minimum cumulative GPA requirement of 2.5. A minimum cumulative GPA of 2.5 must be maintained in order to remain admitted to COBE.

## Degree Requirements

| Information Technology Management<br>Bachelor of Business Administration | |
|---|---|
| *Course Number and Title* | *Credits* |
| Foundational Studies Program requirements indicated in **bold**. See page 50 for details and lists of approved courses. | |
| **ENGL 101** Introduction to College Writing | 3 |
| **ENGL 102** Intro to College Writing and Research | 3 |
| **UF 100** Intellectual Foundations | 3 |
| **UF 200** Civic and Ethical Foundations | 3 |
| **DLM** MATH 160 Survey of Calculus or MATH 170 Calculus I | 4 |
| **DLN** Natural, Physical, & Applied Sciences course with lab | 4 |
| **DLN** Natural, Physical, and Applied Sciences course | 3-4 |
| **DLV** Visual and Performing Arts | 3 |
| **DLL** Literature and Humanities | 3-4 |
| **DLS** ECON 201 Principles of Macroeconomics | 3 |
| **DLS** Social Sciences course in a second field | 3 |
| ACCT 205 Introduction to Financial Accounting | 3 |
| ACCT 206 Introduction to Managerial Accounting | 3 |
| **CID** BUSCOM 201 Business Communication | 3 |
| BUSSTAT 207-208 Statistical Techniques for Decision Making I & II | 6 |
| ECON 202 Principles of Microeconomics | 3 |
| FINAN 303 Principles of Finance | 3 |
| GENBUS 101 Business for the New Generation | 3 |
| GENBUS 202 The Legal Environment of Business | 3 |
| GENBUS 441 Business in Society | 3 |
| **FF** GENBUS 450 Business Policies | 3 |
| Successful completion of the COBE Computer Placement Exam for: Word Processing, Spreadsheet, & Database or<br>ITM 104 Operating Systems & Word Processing Topics and<br>ITM 105 Spreadsheet Topics and<br>ITM 106 Database Topics | 0-3 |
| ITM 225 Introduction to Programming | 3 |
| ITM 305-305L Info Technology & Network Essentials & Lab | 4 |
| ITM 310 Business Intelligence | 3 |
| ITM 315 Database Systems | 3 |
| *Continued* | |

| *Information Technology Management continued* | |
|---|---|
| ITM 320 Systems Planning and Analysis | 3 |
| ITM 325 Web Application Development I | 3 |
| ITM 415 Advanced Database | 3 |
| ITM 455 Information Security | 3 |
| ITM 490 Senior Project: Practice of Information Technology | 3 |
| MGMT 301 Leadership Skills | 3 |
| MKTG 301 Principles of Marketing | 3 |
| SCM 345 Principles of Operations Management | 3 |
| SCM 435 Project Management | 3 |
| ITM electives:<br>ITM 360, ITM 370, ITM 425, ITM 493, ITM 495, ITM 496, ITM 497, SCM 366, SCM 380, SCM 410, SCM 416 | 12 |
| *Total* | 120-125 |
| No more than 3 credits of ITM 493 Internship may be used toward ITM degree requirements. All internships are pass/fail credit.<br>All courses used toward the Information Technology Management major must have a grade of C- or better.<br>ITM or SCM courses older than 5 years may not apply toward major requirements.<br>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.<br>All ITM majors must apply for COBE Admission. | |

For students majoring in another business field, the department offers a minor in Information Technology Management.

Each student seeking the ITM minor must apply for and be accepted into the Information Technology Management minor program and COBE Admissions.

Information Technology Management Minor prerequisite courses: computer competency (demonstrated by successful completion of ITM 104, ITM 105, and ITM 106, or the COBE Computer Placement Exam).

All course prerequisites in the minor are required and will be enforced.

| Information Technology Management Minor | |
|---|---|
| *Course Number and Title* | *Credits* |
| Successful completion of the CoBE Computer Placement Exam for: Word Processing, Spreadsheet, and Database sections or<br>ITM 104 Operating Systems and Word Processing Topics and<br>ITM 105 Spreadsheet Topics and<br>ITM 106 Database Topics | 0-3 |
| ITM 225 Introduction to Programming | 3 |
| ITM 305-305L Info Technology & Network Essentials & Lab | 4 |
| 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 455 Information Security | 3 |
| *Total* | 22-25 |
| All course prerequisites are enforced for students pursuing the ITM minor. | |
| All courses used toward the ITM minor must have a grade of C- or better. | |
| ITM, CIS, or NTCOMM courses older than 5 years may not apply toward minor requirements. | |

| Supply Chain Management<br>Bachelor of Business Administration | |
|---|---|
| *Course Number and Title* | *Credits* |
| Foundational Studies Program requirements indicated in **bold**. See page 50 for details and lists of approved courses. | |
| **ENGL 101** Introduction to College Writing | 3 |
| **ENGL 102** Intro to College Writing and Research | 3 |
| **UF 100** Intellectual Foundations | 3 |
| **UF 200** Civic and Ethical Foundations | 3 |
| **DLM** MATH 160 Survey of Calculus or MATH 170 Calculus I | 4 |
| **DLN** Natural, Physical, & Applied Sciences course with lab | 4 |
| **DLN** Natural, Physical, and Applied Sciences course | 3-4 |
| **DLV** Visual and Performing Arts | 3 |
| **DLL** Literature and Humanities | 3-4 |
| **DLS** ECON 201 Principles of Macroeconomics | 3 |
| **DLS** INTBUS 220 Go Global: You and the World Economy | 3 |
| ACCT 205 Introduction to Financial Accounting | 3 |
| ACCT 206 Introduction to Managerial Accounting | 3 |
| **CID** BUSCOM 201 Business Communication | 3 |
| BUSSTAT 207-208 Statistical Techniques for Decision Making I & II | 6 |
| ECON 202 Principles of Microeconomics | 3 |
| FINAN 303 Principles of Finance | 3 |
| GENBUS 101 Business for the New Generation | 3 |
| GENBUS 202 The Legal Environment of Business | 3 |
| GENBUS 441 Business in Society | 3 |
| **FF** GENBUS 450 Business Policies | 3 |
| Successful completion of the COBE Computer Placement Exam for: Word Processing, Spreadsheet, & Database or<br>ITM 104 Operating Systems & Word Processing Topics and<br>ITM 105 Spreadsheet Topics and<br>ITM 106 Database Topics | 0-3 |
| ITM 310 Business Intelligence | 3 |
| ITM 315 Database Systems | 3 |
| MGMT 301 Leadership Skills | 3 |
| MKTG 301 Principles of Marketing | 3 |
| SCM 345 Principles of Operations Management | 3 |
| SCM 366 Supply Chain Modeling | 3 |
| SCM 380 Quality Management | 3 |
| SCM 410 Transportation and Distribution | 3 |
| SCM 416 Procurement and Supply Chain Integration | 3 |
| SCM 435 Project Management | 3 |
| Four of the following Supply Chain Management electives:<br>ACCT 314, ECON 333, GENBUS 302, INTBUS 443, INTBUS 445, ITM 320, ITM 415, MGMT 334, MKTG 420, MKTG 430, SCM 420, SCM 493, SCM 497 | 12 |
| Electives to total 120 | 5-10 |
| *Total* | 120 |
| *Continued* | |

| *Supply Chain Management continued* |
|---|
| 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. |

| Supply Chain Management Minor | |
|---|---|
| *Course Number and Title* | *Credits* |
| SCM 345 Principles of Operations Management | 3 |
| Three of the following:<br>SCM 366* Supply Chain Modeling<br>SCM 380* Quality Management<br>SCM 410* Transportation and Distribution<br>SCM 416* Procurement and Supply Chain Integration<br>SCM 435* Project Management | 9 |
| Two of the following electives:<br>ACCT 314, ECON 333, GENBUS 302, INTBUS 220, INTBUS 443, INTBUS 445, ITM 415, MGMT 334, MKTG 420, MKTG 430, SCM 420, SCM 493 | 6 |
| *Total* | 18 |
| *SCM 345 is a prerequisite. | |
| Admission to COBE required. | |
| All courses used toward the SCM minor must have a grade of C- or better. | |
| SCM courses older than 5 years may not apply toward minor requirements. | |

## Course Offerings

**See page 63 for a definition of the course-numbering system.**

**Upper-division courses in the Department of Information Technology and Supply Chain Management (those with a course number 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 STATISTICAL TECHNIQUES FOR DECISION MAKING I (3-0-3)(F,S,SU).** Designed to provide an understanding and working knowledge of the concepts and techniques pertaining to basic descriptive and inferential statistics. Business applications of such statistics concepts as the binomial and normal distributions, interval estimates, and hypothesis testing are covered. COREQ: MATH 160 (or MATH 170), PREREQ: ITM 104 and ITM 105 or successful completion of the COBE Computer Placement Exam for these courses. (The prerequisite to MATH 160 is MATH 143.)

**BUSSTAT 208 STATISTICAL TECHNIQUES FOR DECISION MAKING II (3-0-3)(F,S,SU).** This course provides extensions to basic statistical inference with an emphasis on using the techniques for business decision making. Typical topics covered include analysis of variance, simple and multiple linear regression, forecasting, and non-parametric statistics. Established computer software is used, when appropriate, to assist in the learning process. PREREQ: BUSSTAT 207 and MATH 160 (or MATH 170), ITM 104 and ITM105 or

successful completion of the COBE Computer Placement Exam for these courses. (The prerequisite to MATH 160 is MATH 143.)

**ITM – Information Technology Management**

**Lower Division**

**ITM 101 (SCM 101) ORIENTATION TO TECHNOLOGY IN ORGANIZATIONS (1-0-1)(F).** Introduction to the role of technology in organizations and how organizations use technology to solve problems. Explore potential careers and career paths for the Information Technology Management and Supply Chain Management areas. May be taken for ITM or SCM credit, but not both.

**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. (Pass/Fail).

**ITM 105 SPREADSHEET TOPICS (1-1-1)(F,S,SU).** Basic to intermediate spreadsheet skills development, hardware, software, Internet and networking concept materials for use in the workplace, educational settings, and the home. (Pass/Fail). PREREQ: ITM 104 or successful completion of the COBE Computer Placement Exam for ITM 104.

**ITM 106 DATABASE TOPICS (1-1-1)(F,S).** 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). PREREQ: ITM 104. PRE/COREQ: ITM 105 or successful completion of the COBE Computer Placement Exam for ITM 104 and 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 147, 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).** 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 104, ITM 105, and ITM 106 (or PERM/INST for ITM 106), or COBE Computer Placement Exam for ITM 104, ITM 105, and ITM 106. COREQ: ITM 305L.

**ITM 305L INFORMATION TECHNOLOGY AND NETWORK ESSENTIALS LAB (0-3-1)(F).** Hands-on exercises and activities to supplement lecture component and expand IT concepts into workplace skills. PREREQ: Admission to COBE or Games, Interactive Media and Mobile major or Health Informatics and Information Management emphasis. COREQ: ITM 305.

**ITM 310 BUSINESS INTELLIGENCE (3-0-3)(F,S).** Study of information technology resources such as database systems, enterprise systems, and networks explained in their role of supporting decision makers. Special attention given to hands-on-experience in team projects for developing and using business intelligence. Ethical, legal, and behavioral issues of conducting business intelligence. PREREQ: BUSCOM 201 for business majors or ENGL 202 for non-business majors or B.S. Business and Economic Analytics major, ENGL 102, and ITM 104 and ITM 105 or successful completion of the COBE Computer Placement Exam for ITM 104 and ITM 105.

**ITM 315 DATABASE SYSTEMS (3-3-3)(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 B.S. Business and Economic Analytics major and Junior Standing or English, Technical Communications Emphasis, 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: Admission to COBE, ITM 310 or PERM/INST.

**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 and ITM 225 or CS 115 or CS 117 or CS 119. COREQ: ITM 315. For GIMM majors: PREREQ: Games, Interactive Media and Mobile major and GIMM 110.

**ITM 360 ADVANCED NETWORKING CONCEPTS (3-0-3)(S).** Concepts, technologies, and applications of computer networking and network management in business. Topics include the technical and managerial views of network operations and how network architectures are managed. Hands-on experience installing and managing network components may be included. PREREQ: Admission to COBE, ITM 305 and ITM 305L.

**ITM 370 MOBILE APPLICATION DEVELOPMENT (3-0-3)(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.

**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 statement (DCL), access methods, query processing and optimization concurrency controls, dimensional diagramming, data warehouse design and development, data integrity, and master data management. Programming projects required for enterprise DBMS such as MS SQL Server. PREREQ: Admission to COBE or B.S. Business and Economic Analytics major, ITM 315.

**ITM 425 WEB APPLICATION DEVELOPMENT II (3-0-3)(F/S).** Continuing exploration and development in the area of web and data-based systems using current frameworks and environments. Focuses on in-depth design and implementation issues using data access technologies such as XML, web services, and third party data sources via n-tier architecture. PREREQ: Admission to COBE, ITM 325.

**ITM 455 INFORMATION SECURITY (3-0-3)(F).** 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, ITM 305 and ITM 305L, ITM majors only, or PERM/INST.

**ITM 490 SENIOR PROJECT: PRACTICE OF INFORMATION TECHNOLOGY (3-0-3)(S).** Develop a complete systems project for a live client, from planning through implementation, in a team-development environment. Applied project management and methodologies, requirements analysis, system design, programming languages, database, and networking. PREREQ: Admission to COBE, ITM 320, ITM 325, ITM 415 or ITM 360. PRE/COREQ: SCM 435.

**ITM 493 INTERNSHIP (Variable Credit)(F/S).** 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 hours of ITM coursework.

**ITM 495 CURRENT TOPICS IN INFORMATION TECHNOLOGY MANAGEMENT (1-4 Credits)(F/S)(Offered 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.

**SCM – Supply Chain Management**

**Lower Division**

**SCM 101 (ITM 101) ORIENTATION TO TECHNOLOGY IN ORGANIZATIONS (1-0-1)(F).** Introduction to the role of technology in organizations and how organizations use technology to solve problems. Explore potential careers and career paths for the Information Technology Management and Supply Chain Management areas. May be taken for ITM or SCM credit, but not both.

**Upper Division**

**SCM 345 PRINCIPLES OF OPERATIONS MANAGEMENT (3-0-3) (F,S,SU).** Management of the core operations in manufacturing and services firms. These include planning and control, scheduling, facility location, quality management, supply chain management, inventory analysis, and more. PREREQ: Admission to COBE or B.S. Business and Economic Analytics major and Junior Standing or Industrial Engineering Minor and Junior Standing.

**SCM 366 SUPPLY CHAIN MODELING (3-0-3)(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. PREREQ: Admission to COBE or B.S. Business and Economic Analytics major and Junior Standing or Industrial Engineering Minor and Junior Standing, SCM 345.

**SCM 380 QUALITY MANAGEMENT AND LEAN PROCESS IMPROVEMENT (3-0-3)(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 or Industrial Engineering Minor and Junior Standing, SCM 345.

**SCM 410 SUPPLY CHAIN TRANSPORTATION AND DISTRIBUTION (3-0-3)(F).** 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 or Industrial Engineering Minor and Junior Standing, SCM 345.

**SCM 416 PROCUREMENT AND SUPPLY CHAIN INTEGRATION (3-0-3)(F).** Procurement topics including supplier selection, negotiation, contracts, supplier relationship management, and ethical issues, international outsourcing, coordinating and integrating supply networks. PREREQ: SCM 345.

**SCM 420 CREATING SUSTAINABLE GOODS AND SERVICES (3-0-3) (F/S)(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 345.

**SCM 435 PROJECT MANAGEMENT (3-0-3)(F,S).** 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 or Industrial Engineering Minor and Junior Standing, SCM 345.

**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 345.

# Interdisciplinary Studies in Aging

*College of Health Sciences*

Health Science Riverside, Room 124 Phone: (208) 426-2452
hs.boisestate.edu/csa
E-mail: stoevs@boisestate.edu

*Coordinator:* Sarah Toevs

## Program Offered

- Minor in Gerontology

## Program Statement

Students have the opportunity to earn a minor in gerontology through a structured, upper-division, interdisciplinary studies program administered by the Department of Community and Environmental Health. Courses provide students from any major an opportunity to become knowledgeable about the biological, psychological, and sociological aspects of the aging process. Additionally, required coursework furnishes students with an excellent understanding of health and aging, as well as an understanding of the social welfare policy and programs related to the older person.

| Gerontology Minor | |
|---|---|
| *Course Number and Title* | *Credits* |
| BIOL 100* Concepts of Biology or<br>BIOL 107* Introduction to Human Biology or<br>BIOL 227*-228* Human Anatomy and Physiology | 4-8 |
| BIOL 300 Biology of Aging | 3 |
| HLTHST 410 Health and Aging | 3 |
| PSYC 101* General 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* | 28-32 |
| *These lower-division required courses meet foundational studies requirements. | |

# Interdisciplinary Studies Program

*Honors College*

Driscoll Hall
http://interdisciplinarystudies.boisestate.edu
E-mail: idsundergrad@boisestate.edu
Phone: (208) 426-1122
Fax: (208) 426-1247

*Contact:* Annal Frenz, Director

## Degrees Offered

- Bachelor of Arts in Interdisciplinary Studies
- Bachelor of Science in Interdisciplinary Studies

## Program Statement

The Bachelor of Arts and Bachelor of Science degrees in Interdisciplinary Studies are offered by Boise State University and administered by the Honors College. All undergraduate students are welcome to apply; membership in the Honors College is not required.

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 Honors College 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 disciplinary lens course in each area (DLM, DLN, DLV, DLL, DLS).

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. A completed Personal Data form.
b. A completed Degree Plan, which lists courses to be included in the proposed interdisciplinary major, which satisfies degree requirements listed below for either the B.A. or B.S. 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.
c. 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.
d. 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 1st or March 1st 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 | |
|---|---|
| *Course Number and Title* | *Credits* |
| Foundational Studies Program requirements indicated in **bold**. See page 50 for details and lists of approved courses. | |
| **ENGL 101** Introduction to College Writing | 3 |
| **ENGL 102** Intro to College Writing and Research | 3 |
| **CID** Communication in the Discipline | |
| A student earning the B.A. or B.S. in Interdisciplinary Studies must satisfy the Foundational Studies Program's Communication in the Discipline requirement with the approved **CID** course required by a discipline directly relevant to the student's focus of interdisciplinary study. The course must be designated as **CID** on the student's degree plan as approved by the Interdisciplinary Studies Committee and may be counted toward credits in the major. | 2-4 |
| **UF 100** Intellectual Foundations | 3 |
| **UF 200** Civic and Ethical Foundations | 3 |
| **FF** INTDIS 491 Project – in completing the project, you must draw critically from two or more disciplines you have studied and integrate disciplinary insights you have gained. | 3 |
| **DLM** Mathematics | 3-4 |
| **DLN** Natural, Physical, & Applied Sciences course with lab | 4 |
| **DLN** Natural, Physical, and Applied Sciences course | 3 |
| **DLV** Visual and Performing Arts | 3 |
| **DLL** Literature and Humanities | 3-4 |
| **DLS** Social Sciences course in a first field | 3 |
| **DLS** Social Sciences course in a second field | 3-4 |
| Major – At least two fields must be represented. No more than 30 credits from the College of Business and Economics, or from any one 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. | 17-38 |
| *Total* | 120 |

## Course Offerings

**See page 63 for a definition of the course-numbering system.**

**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.

Internal Auditing — see Department of Accountancy

# International Business Program

*College of Business and Economics*

Micron Business and Economics Building, Room 2140 Phone: (208) 426-4205
http://cobe.boisestate.edu/internationalbusiness/
E-mail: intbus@boisestate.edu

*Director and Professor:* Mark A Buchanan. *Contributing Faculty:* Barney, Baughn, G. *Black, M. Black, Neupert, Ray, Schooley-Pettis, Twight, White.*

## Degrees Offered

- Bachelor of Business Administration in International Business
- Minor in International Business

## Program Statement

Business is global. The International Business degree 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 graduates more attractive to employers.

The International Business Minor is offered for business students who seek more specialized courses in the international area. To obtain the International Business Minor, nonbusiness students must also complete additional general requirements for a business minor.

Academic advisors come from College of Business and Economics (COBE) student services the International Business program as well as from departments throughout the College of Business and Economics, with experience and expertise in a number of different disciplines. Students may choose an advisor who matches their interests.

International Business majors are encouraged to participate in work or travel opportunities offered through the program or in conjunction with other programs in the university or business community. Such programs include studies abroad and internships, both domestic and foreign.

Students intending to major in International Business are **strongly** encouraged to consult an advisor early. Stop in at student services in COBE.

## Admission Requirements

Students interested in pursuing a degree in COBE must be admitted to the college. Admission to COBE is required before a student may enroll in most upper-division business and economics courses. See page 13 for exceptions to these requirements.

Admission to COBE is competitive and based on various academic criteria such as overall GPA, performance in gateway courses, and other business and economics courses. Meeting the criteria does not guarantee admission. Please see the COBE advising website: http://cobe.boisestate.edu/studentadvising/ to obtain specific information about the application process and application deadlines.

To be considered for admission, students must:

- Complete each of the following gateway courses with a grade of C- or better:
  - ACCT 205 Introduction to Financial Accounting
  - ACCT 206 Introduction to Managerial Accounting
  - BUSCOM 201 Business Communication
  - BUSSTAT 207 Statistical Techniques for Decision Making I
  - ECON 201 Principles of Macroeconomics
  - ECON 202 Principles of Microeconomics
  - GENBUS 101 Business for the New Generation
  - ITM 104 Operating Systems and Word Processing Topics
  - ITM 105 Spreadsheet Topics
  - MATH 160 Survey of Calculus
- Meet minimum cumulative GPA requirement of 2.5. A minimum cumulative GPA of 2.5 must be maintained in order to remain admitted to COBE.

## Degree Requirements

| International Business<br>Bachelor of Business Administration | |
|---|---|
| *Course Number and Title* | *Credits* |
| Foundational Studies Program requirements indicated in **bold**. See page 50 for details and lists of approved courses. | |
| **ENGL 101** Introduction to College Writing | 3 |
| **ENGL 102** Intro to College Writing and Research | 3 |
| **UF 100** Intellectual Foundations | 3 |
| **UF 200** Civic and Ethical Foundations | 3 |
| **DLM** MATH 160 Survey of Calculus or MATH 170 Calculus I | 4 |
| **DLN** Natural, Physical, & Applied Sciences course with lab | 4 |
| **DLN** Natural, Physical, and Applied Sciences course | 3-4 |
| **DLV** Visual and Performing Arts | 3 |
| **DLL** Language 201* | 3-4 |
| **DLS** ECON 201 Principles of Macroeconomics | 3 |
| **DLS** INTBUS 220 Go Global: You and the World Economy | 3 |
| Language 202* | 3-4 |
| ACCT 205 Introduction to Financial Accounting | 3 |
| ACCT 206 Introduction to Managerial Accounting | 3 |
| **CID** BUSCOM 201 Business Communication | 3 |
| BUSSTAT 207-208 Statistical Techniques for Decision Making I & II | 6 |
| ECON 202 Principles of Microeconomics | 3 |
| ECON 317 International Economics | 3 |
| FINAN 303 Principles of Finance | 3 |
| FINAN 430 International Finance | 3 |
| GENBUS 101 Business for the New Generation | 3 |
| GENBUS 202 The Legal Environment of Business or GENBUS 304 Law For Accountants I | 3 |
| **FF** GENBUS 450 Business Policies | 3 |
| INTBUS 443 Importing and Exporting Procedures | 3 |
| International Business Career Experience: an internship, course or overseas experience, approved by advisor. | 3 |
| Successful completion of the COBE Computer Placement Exam for: Word Processing and Spreadsheets, or<br>ITM 104 Operating Systems & Word Processing Topics and<br>ITM 105 Spreadsheet Topics | 0-2 |
| ITM 310 Business Intelligence | 3 |
| MGMT 301 Leadership Skills | 3 |
| MGMT 334 International Management or INTBUS 455 Global Strategy | 3 |
| MKTG 301 Principles of Marketing | 3 |
| MKTG 430 International Marketing | 3 |
| SCM 345 Principles of Operations Management | 3 |
| *Continued* | |

| *International Business continued* | |
|---|---|
| One of the following focus area minors or honors track:<br>1) Business focus area minor:<br>Economics, Entrepreneurship Management, Finance, Human Resources Management, Marketing<br>2) Alternative focus area minor** — with advisor approval:<br>Basque Studies, Canadian Studies, Chinese Studies, French: Business Emphasis, German: Business Emphasis, History, Japanese Studies, Latin American Studies, Political Science, Spanish: Business Emphasis, Sustainability<br>3) Honors College track — with advisor approval:<br>If an International Business BBA student completes an Honors College program, s/he is not required to complete a Business or Alternative Minor. | 9-21 |
| Upper-division history*** course choose from:<br>HIST 309 The Old Regime and the French Revolution<br>HIST 313 History of England in Modern Times<br>HIST 316 Europe's Radical 19th Century<br>HIST 317 Europe in War and Revolution, 1900-1945<br>HIST 319 Eastern Europe Since the Second World War<br>HIST 327 World War I<br>HIST 328 Stalinism<br>HIST 338 American Foreign Relations<br>HIST 362 Modern Latin America<br>HIST 363 History of Mexico<br>HIST 366 History of Modern Africa: 1750-Present<br>HIST 368 The Islamic Middle East<br>HIST 369 The Modern Middle East<br>HIST 371 History of Modern South Asia<br>HIST 372 The History of Modern Southeast Asia<br>HIST 373 The History of Modern China<br>HIST 374 Critical Issues in Modern Asian History<br>HIST 380 Colloquium in European History | 3 |
| INTBUS 445 International Trade and Investment Law or upper-division political science*** course choose from:<br>POLS 305 Introduction to Comparative Politics<br>POLS 306 Introduction to International Relations<br>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 Comparative Politics<br>POLS 429 International Political Economy | 3 |
| Foreign language business course:<br>FRENCH 307 French for Business<br>GERMAN 307 Business German<br>SPANISH 305 Spanish for Business<br>SPANISH 480 Advanced Business Spanish<br>(With permission of an advisor, advanced (300-level)) | 3-4 |
| Electives to total 120 credits | 0-7 |
| *Total* | 120-134 |

*FORLNG courses and other language courses with a business focus may substitute for language competency course.
**For alternative minors, many of the courses in the IB curriculum already satisfy minor requirements.
***IB majors do not have to complete the prerequisite courses for listed Upper Division POLS and HIST classes.

| International Business Minor | |
|---|---|
| *Course Number and Title* | *Credits* |
| ECON 317* International Economics | 3 |
| FINAN 430* International Finance | 3 |
| INTBUS 220 Go Global: You and the World Economy | 3 |
| MGMT 334* International Management | 3 |
| MKTG 430* International Marketing | 3 |
| One of the following history courses**:<br>HIST 309 The Old Regime and the French Revolution<br>HIST 313 History of England in Modern Times<br>HIST 316 Europe's Radical 19th Century<br>HIST 317 Europe in War and Revolution, 1900-1945<br>HIST 319 Eastern Europe Since the Second World War<br>HIST 327 World War I<br>HIST 328 Stalinism<br>HIST 338 American Foreign Relations<br>HIST 362 Modern Latin America<br>HIST 363 History of Mexico<br>HIST 366 History of Modern Africa: 1750-Present<br>HIST 368 The Islamic Middle East<br>HIST 369 The Modern Middle East<br>HIST 371 History of Modern South Asia<br>HIST 372 The History of Modern Southeast Asia<br>HIST 373 The History of Modern China<br>HIST 374 Critical Issues in Modern Asian History<br>HIST 380 Colloquium in European History | 3 |
| One of the following political science courses**:<br>POLS 305 Introduction to Comparative Politics<br>POLS 306 Introduction to International Relations<br>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 Comparative Politics<br>POLS 429 International Political Economy | 3 |
| *Total* | 21 |

*Require admission to COBE.
**IB minors do not have to complete the prerequisite courses for listed Upper Division POLS and HIST classes.

## Course Offerings

**See page 63 for a definition of the course-numbering system.**

Upper-division courses in the international business consortium and programs (those with a course number 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; organize and solve problems using the techniques of intermediate level high school algebra; use a microcomputer for simple word processing and spreadsheet applications.

**INTBUS – International Business**

**Lower Division**

**INTBUS 220 GO GLOBAL: YOU AND THE WORLD ECONOMY (3-0-3)(F,S,SU)(DLS).** 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).** 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, and resources available for importers and exporters. PREREQ: Admission to COBE, INTBUS 220.

**INTBUS 444 INTERNATIONAL MANAGEMENT SIMULATION (3-0-3)(S).** 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 220.

**INTBUS 445 (POLS 445) INTERNATIONAL TRADE AND INVESTMENT LAW (3-0-3)(S).** 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 investment. 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. PREREQ: Admission to COBE, senior/graduate standing; or POLS 304 and POLS 306, or PERM/INST.

**INTBUS 455 GLOBAL STRATEGY (3-0-3)(F/S).** 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. Recommended for seniors. PREREQ: International Business majors with upper-division standing or PERM/INST.

**INTBUS 493 INTERNATIONAL BUSINESS INTERNSHIP (number of credits varies).** 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 resume submitted to the INTBUS office; recommendation of faculty advisor and PERM/INST.

International Relations — see Department of Political Science

Japanese Studies Minor — see Department of World Languages

# Department of Kinesiology

*College of Health Sciences | School of Allied Health Sciences*

Kinesiology Building, Room 209
http://kinesiology.boisestate.edu/
E-mail: kinesinfo@boisestate.edu
Phone: (208) 426-4270
Fax: (208) 426-1894

*Chair and Associate Professor:* John McChesney. *Professors:* Shimon, Spear. *Associate Professors:* Bell, Gao, Gibson, Johnson, Lucas, Petranek, Simonson. *Assistant Professors:* Bolter, Conger. *Clinical Assistant Professor:* Ford.

## Degrees Offered

- Bachelor of Science in Athletic Training
- Bachelor of Science in Kinesiology
  - Biomechanics Emphasis
  - Exercise Science Emphasis
  - Pre-Allied Health Emphasis
- Bachelor of Science in Health Education and Promotion
- Bachelor of Science in K-12 Physical Education

## 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. Course work 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 2.75 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* |
| Foundational Studies Program requirements indicated in **bold**. See page 50 for details and lists of approved courses. | |
| **ENGL 101** Introduction to College Writing | 3 |
| **ENGL 102** Intro to College Writing and Research | 3 |
| **UF 100** Intellectual Foundations | 3 |
| **UF 200** Civic and Ethical Foundations | 3 |
| **DLM** MATH 143 College Algebra | 3 |
| **DLN** BIOL 227 Human Anatomy and Physiology | 4 |
| **DLN** PHYS 101 Introduction to Physics | 4 |
| **DLV** Visual and Performing Arts | 3 |
| **DLL** Literature and Humanities | 3-4 |
| **DLS** ED-CIFS 201 Foundations of Education | 3 |
| *Continued* | |

| *K-12 Physical Education continued* | |
|---|---|
| **DLS** PSYC 101 General Psychology | 3 |
| ED-CIFS 203* Child and Educational Psychology | 3 |
| 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. | |
| 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 Fitness Conditioning 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 180 Introduction to Coaching | 3 |
| **CID** KINES 201 Cultural, Historical & Philosophical Dimensions of Physical Activity | 3 |
| KINES 251 Introduction to Teaching Physical Education | 3 |
| KINES 270, 271 Applied Anatomy and Lab | 3 |
| KINES 301 Statistics, Measurement and Evaluation Concepts | 3 |
| KINES 305 Adapted Physical Education | 3 |
| KINES 330, 331 Exercise Physiology and Lab | 4 |
| KINES 351, 352 Elementary School Physical Education Methods and Field Experience | 4 |
| KINES 365 Social Psychology of Sport & Physical Activity | 3 |
| KINES 370, 371 Biomechanics and Lab | 4 |
| KINES 375, 376 Human Growth & Motor Learning and Lab | 4 |
| **FF** KINES 432 Conditioning Procedures | 2 |
| KINES 433 Laboratory for Conditioning Procedures | 1 |
| KINES 438 Qualitative Analysis of Human Movement | 3 |
| KINES 451, 452 Secondary School Physical Education Methods and Field Experience | 4 |
| KINES 455 Organization and Administration of Physical Education | 2 |
| KINES 458 Curriculum Design in Physical Education | 3 |
| KINES 460 Professional Year Elementary Teaching Experience | 7 |
| KINES 461 Professional Year Secondary Teaching Experience | 7 |
| KIN-ACT Activity | 1 |
| *Total* | 120-121 |

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 B.S. in Kinesiology has three emphasis areas: a) Biomechanics, b) Exercise Science (two foci: Exercise Physiology or Applied Exercise Leadership), and c) Pre-Allied Health. The program requires an entry application by the first Friday in February of the sophomore year. Students must take a concepts exam, complete a formal interview, pass physical fitness requirements, and maintain an overall GPA of 3.0. A current CPR and first aid certification is required. The successful candidate will be committed to the process of developing the skills, knowledge, and professional dispositions of highly effective practitioners in the area of kinesiology.

| Kinesiology<br>Bachelor of Science | |
|---|---|
| *Course Number and Title* | *Credits* |
| Foundational Studies Program requirements indicated in **bold**. See page 50 for details and lists of approved courses. | |
| **ENGL 101** Introduction to College Writing | 3 |
| **ENGL 102** Intro to College Writing and Research | 3 |
| **UF 100** Intellectual Foundations | 3 |
| **UF 200** Civic and Ethical Foundations | 3 |
| **DLM** MATH 143 College Algebra | 3 |
| **DLN** BIOL 227 Human Anatomy and Physiology | 4 |
| **DLN** CHEM 111, 111L General Chemistry I with Lab | 4 |
| **DLV** Visual and Performing Arts | 3 |
| **DLL** Literature and Humanities | 3-4 |
| **DLS** KINES 140 Personal Health | 3 |
| **DLS** PSYC 101 General Psychology | 3 |
| BIOL 228 Human Anatomy and Physiology | 4 |
| **CID** KINES 201 Cultural, Historical & Philosophical Dimensions of Physical Activity | 3 |
| KINES 270, 271 Applied Anatomy and Lab | 3 |
| KINES 301 Statistics, Measurement & Evaluation Concepts | 3 |
| KINES 305 Adapted Physical Education | 3 |
| KINES 330, 331 Exercise Physiology and Lab | 4 |
| KINES 363 Exercise Psychology | 3 |
| KINES 370, 371 Biomechanics and Lab | 4 |
| KINES 375, 376 Human Growth & Motor Learning and Lab | 4 |
| KINES 430, 431 Physical Activity and Aging and Lab | 4 |
| **FF** KINES 432 Conditioning Procedures | 2 |
| KINES 433 Laboratory for Conditioning Procedures | 1 |
| KINES 438 Qualitative Analysis of Human Movement | 3 |
| KINES 493 Internship in Kinesiology | 3 |
| KIN-ACT Activities | 2 |
| MATH 144 Analytic Trigonometry | 2 |
| In addition, complete courses listed under one of the emphases below to graduate with a B.S. in Kinesiology with an emphasis. | |
| *Continued* | |

| *Kinesiology continued* | |
|---|---|
| **Biomechanics Emphasis** | |
| BIOL 477 Biomaterials | 3 |
| ENGR 210 Engineering Statics | 3 |
| ENGR 220 Engineering Dynamics | 3 |
| ENGR 245 Introduction to Materials and Science & Engineering | 3 |
| MATH 170 Calculus I | 4 |
| MATH 175 Calculus II | 4 |
| ME 112 Introduction to Biomedical Engineering | 3 |
| ME 356 Introduction to Solid Biomechanics | 3 |
| PHYS 211, 211L Physics I with Calculus and Lab | 5 |
| PHYS 212, 212L Physics II with Calculus and Lab | 5 |
| Electives to total 120 credits | 0-1 |
| Total | 121-122 |
| **Exercise Science Emphasis** | |
| CHEM 112-112L General Chemistry with Lab II | 4 |
| HLTHST 101 Medical Terminology | 3 |
| HLTHST 207 Nutrition | 3 |
| HLTHST 220 Cardiopulmonary Renal Physiology | 3 |
| KINES 220 Introduction to Athletic Injuries | 3 |
| KINES 436 Exercise Testing and Prescription | 2 |
| KINES 437 Laboratory for Exercise Testing and Prescription | 1 |
| Electives to total 120 credits (see below) | 17-18 |
| Note: 7 credits must be from upper-division courses. Suggested Electives: | |
| Exercise Physiology: BIOL 191, BIOL 192, BIOL 301, CHEM 301, CHEM 302, CHEM 350, CHEM 431, 432, KINES 424, ZOOL 401 | |
| Applied Exercise Leadership: ACCT 205, COMM 356, ECON 202, HLTHST 448, HLTHST 466, KINES 424, MKTG 301 | |
| Total | 120 |
| **Pre-Allied Health Emphasis** | |
| BIOL 191-192 General Biology I and II | 8 |
| CHEM 112, 112L General Chemistry II with Lab | 4 |
| HLTHST 101 Medical Terminology | 3 |
| HLTHST 202 Health Delivery Systems | 3 |
| HLTHST 434 Health Care Bioethics | 3 |
| PHYS 111-112 General Physics | 8 |
| PSYC 301 Abnormal Psychology | 3 |
| ZOOL 401 Human Physiology | 4 |
| Electives to total 120 credits | 0-1 |
| Total | 120 |

**Health Education and Promotion (HEP)** focuses on enhancing and maintaining the overall health and well-being of individuals and communities. Health education specialists demonstrate competencies in these seven areas: assessing individual and community needs, planning, implementing and administering health education programs, serving as a resource person, conducting health education research and evaluation, and communicating and advocating for health and health education. HEP graduates are eligible to take the Certified Health Education Specialist (CHES) exam. Graduates work in a variety of settings: private, public, and voluntary health agencies, hospitals/

clinics, and corporations. Students apply to the HEP program by March 1 or October 1 prior to their junior year. Applicants bring a resume, philosophy of Health Education and Promotion, current CPR for the Professional Rescuer and First Aid card and an essay describing why this career field, career goals, and examples of community involvement.

| Health Education and Promotion<br>Bachelor of Science | |
|---|---|
| *Course Number and Title* | *Credits* |
| Foundational Studies Program requirements indicated in **bold**. See page 50 for details and lists of approved courses. | |
| **ENGL 101** Introduction to College Writing | 3 |
| **ENGL 102** Intro to College Writing and Research | 3 |
| **UF 100** Intellectual Foundations | 3 |
| **UF 200** Civic and Ethical Foundations | 3 |
| **DLM** MATH 143 College Algebra or higher | 3-4 |
| **DLN** BIOL 227 Human Anatomy and Physiology | 4 |
| **DLN** CHEM 101, 101L Essentials of Chemistry I & Lab or higher | 4 |
| **DLV** Visual and Performing Arts | 3 |
| **DLL** Literature and Humanities | 3-4 |
| **DLS** KINES 140 Personal Health | 3 |
| **DLS** Social Sciences course in a Sociology | 3 |
| ACCT 205 Introduction to Financial Accounting | 3 |
| BIOL 228 Human Anatomy and Physiology | 4 |
| COMM 356 Communication in Small Groups | 3 |
| ENGL 202 Technical Communication | 3 |
| HLTHST 101 Medical Terminology | 3 |
| HLTHST 109 Drugs: Use and Abuse | 3 |
| HLTHST 207 Nutrition | 3 |
| HLTHST 304 Public Health | 3 |
| HLTHST 356 Community-Based Prevention Methods | 3 |
| HLTHST 382 Research Methods in Health | 3 |
| HLTHST 480 Epidemiology | 3 |
| ITM 104* Operating Systems and Word Processing Topics<br>ITM 105* Spreadsheet Topics<br>*or successful completion of the COBE Computer Placement Exam | 0-2 |
| **CID** KINES 240 Foundations of Health Promotion and Prevention | 3 |
| KINES 301 Statistics, Measurement and Evaluation Concepts | 3 |
| KINES 330, 331 Exercise Physiology and Lab | 4 |
| KINES 340 Community Health Education | 3 |
| KINES 342 Health Promotion Methods | 3 |
| KINES 363 Exercise Psychology | 3 |
| **FF** KINES 440 Health Promotion Programming | 3 |
| KINES 493 Internship | 8 |
| KIN-ACT two sport and fitness activities | 2 |
| MGMT 301 Leadership Skills | 3 |
| MKTG 301 Principles of Marketing | 3 |
| PSYC 101 General Psychology | 3 |
| *Continued* | |

| *Health Education and Promotion continued* | |
|---|---|
| Three of the following:<br>HLTHST 450 Current Issues in Health Policy<br>KINES 242 Human Sexuality<br>PSYC 261 Human Sexuality<br>PSYC 301 Abnormal Psychology<br>PSYC 331 The Psychology of Health<br>PSYC 357 Introduction to Counseling Skills<br>PSYC 438 Community Psychology | 9 |
| Electives to total 120 credits | 0-1 |
| *Total* | 120-123 |

**Boise State Athletic Training Program** is a curriculum for the study of the care and prevention of injuries and illnesses incurred by athletes. The program is accredited by the Commission on Accreditation of Athletic Training Education (CAATE). Completion of this program prepares the graduates to sit for the Board of Certification's (BOC) national certification examination. The ATP includes both an academic and a clinical component.

Admission to the clinical component of the ATP is on a competitive basis and requires a separate application. In order to be considered for admission students must:

1. Submit a completed Boise State Athletic Training Program application by the first Friday of March. This application includes, but is not limited to: contact information, transcripts, a resume, letters of recommendation, a physical examination and health history form, immunization record, a background check, an essay, and an ATP Technical Standards for Admissions form.
2. Take the Boise State-Athletic Training Program admissions examination.
3. Complete prerequisite coursework as listed on the ATP application.
4. Complete a pre-admission interview.

The clinical component of the program is designed to be completed in six (6) semesters and is supervised by clinical preceptors. Students seeking to transfer to this academic program are subject to all university transfer related policies. Information on these policies can be found in chapters 3 and 10 of this catalog. For more information, contact the Boise State Athletic Training Program Director in the Department of Kinesiology, (208) 426-4270.

| Athletic Training<br>Bachelor of Science | |
|---|---|
| *Course Number and Title* | *Credits* |
| Foundational Studies Program requirements indicated in **bold**. See page 50 for details and lists of approved courses. | |
| **ENGL 101** Introduction to College Writing | 3 |
| **ENGL 102** Intro to College Writing and Research | 3 |
| **UF 100** Intellectual Foundations | 3 |
| **UF 200** Civic and Ethical Foundations | 3 |
| **DLM** MATH 143-144 College Algebra & Analytical Trigonometry or MATH 170 Calculus I | 4-5 |
| **DLN** BIOL 227 Human Anatomy and Physiology | 4 |
| **DLN** PHYS 111 General Physics | 4 |
| **DLV** Visual and Performing Arts | 3 |
| **DLL** Literature and Humanities | 3-4 |
| **DLS** KINES 140 Personal Health | 3 |
| **DLS** PSYC 101 General Psychology | 3 |
| BIOL 228 Human Anatomy and Physiology | 4 |
| CHEM 101, 101L Essentials of Chemistry I with lab or CHEM 111, 111L General Chemistry I with Lab | 4 |
| HLTHST 101 Medical Terminology | 3 |
| HLTHST 207 Nutrition | 3 |
| *Continued* | |

| *Athletic Training continued* | |
|---|---|
| HLTHST 300 Pathophysiology | 4 |
| HLTHST 306 Applied Pharmacotherapeutics | 3 |
| KINES 121 Taping and Wrapping Techniques in Athletic Training | 1 |
| **CID** KINES 201 Cultural, Historical & Philosophical Dimensions of Physical Activity | 3 |
| KINES 220 Introduction to Athletic Injuries | 3 |
| KINES 221 Athletic Training Clinical Instruction I | 2 |
| KINES 222 Athletic Training Clinical Instruction II | 2 |
| KINES 270, 271 Applied Anatomy and Lab | 3 |
| KINES 301 Statistics, Measurement and Evaluation Concepts | 3 |
| KINES 321 Athletic Training Clinical Instruction III | 3 |
| KINES 322 Athletic Training Clinical Instruction IV | 3 |
| KINES 324 Injury Evaluation | 4 |
| KINES 326 Modalities in Athletic Training | 3 |
| KINES 330, 331 Exercise Physiology and Lab | 4 |
| KINES 365 Social Psychology of Sport & Physical Activity | 3 |
| KINES 370, 371 Biomechanics and Lab | 4 |
| KINES 375, 376 Human Growth & Motor Learning and Lab | 4 |
| KINES 421 Athletic Training Clinical Instruction V | 3 |
| KINES 422 Athletic Training Clinical Instruction VI | 3 |
| KINES 424 Theory & Application of Therapeutic Exercise | 3 |
| KINES 426 Organization & Administration of Athletic Training | 3 |
| **FF** KINES 432 Conditioning Procedures | 2 |
| KINES 433 Laboratory for Conditioning Procedures | 1 |
| KINES 438 Qualitative Analysis of Human Movement | 3 |
| KIN-ACT Activity | 1 |
| Electives to total 120 credits | 0-2 |
| *Total* | 120 |

**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 | |
|---|---|
| *Course Number and Title* | *Credits* |
| HLTHST 109 Drugs: Use and Abuse | 3 |
| HLTHST 207 Nutrition | 3 |
| KINES 140 Personal Health | 3 |
| KINES 242 Human Sexuality | 3 |
| KINES 355 Elementary School Health & Physical Education* | 2 |
| KINES 445 Secondary School Health Methods & Admin | 3 |
| Select two courses from the following:<br>PSYC 101 General Psychology<br>PSYC 271 Human Relationships<br>PSYC 301 Abnormal Psychology<br>PSYC 331 The Psychology of Health | 6 |
| *Total* | 23 |
| *Note: Take the 2-credit option when enrolling in KINES 355 | |
| See Department of Curriculum, Instruction, and Foundational Studies for more information. | |

## Course Offerings

**See page 63 for a definition of the course-numbering system.**

**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 FITNESS CONDITIONING ACTIVITIES (0-3-1) (F/S).** Instruction and practice in a variety of fitness conditioning-related activities, emphasizing fundamental concepts, techniques, and teaching progressions using body-weight exercises and equipment. 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. Special fee required.

**KINES 140 PERSONAL HEALTH (3-0-3)(F/S)(DLS).** 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 (HLTHST 150) RESIDENTIAL COLLEGE: HEALTH PROFESSIONS (1-0-1)(F,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 180 INTRODUCTION TO COACHING (3-0-3)(F/S)(DLS).** An exploration of the role of sport in society and the various facets of leadership in sport settings including philosophy, leadership styles, communication, group dynamics, teaching and instruction, and management.

**KINES 201 CULTURAL, HISTORICAL AND PHILOSOPHICAL DIMENSIONS OF PHYSICAL ACTIVITY (3-0-3)(F/S)(CID).** A study of sociocultural, historical, and philosophical factors and issues that influence attitudes about and practices of physical activity. Introduction to the conventions of communication within the discipline of kinesiology. PREREQ: ENGL 101 and ENGL 102 (or ENGL 112).

**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.

**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 240 FOUNDATIONS OF HEALTH PROMOTION AND PREVENTION (3-0-3)(F/S)(CID).** Fundamental concepts, theories and direction of health promotion and prevention fields. Exploration of career opportunities and future trends in health promotion. PREREQ: ENGL 101 and ENGL 102 (or ENGL 112).

**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 (HLTHST 250) RESIDENTIAL COLLEGE: HEALTH PROFESSIONS (1-0-1)(F,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 (2-0-2)(F/S).** Investigation of human osteology, myology, arthrology, and neurology as they relate to movement. Emphasis is on application of gross human anatomy to principles of simple and complex movement. PREREQ: BIOL 107 or BIOL 227. COREQ: KINES 271.

**KINES 271 LABORATORY FOR APPLIED ANATOMY (0-2-1)(F/S).** The laboratory to accompany KINES 270. Lab fee required. COREQ: KINES 270.

**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.

**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: Junior standing.

**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 (3-0-3)(F/S).** Instruction in the physiological and biochemical changes accompanying exercise and training with emphasis on application of scientific principles to training program design. PREREQ: KINES 270 and KINES 271 or Instructor Permission. COREQ: KINES 331.

**KINES 331 LABORATORY FOR EXERCISE PHYSIOLOGY (0-2-1)(F/S).** The laboratory to accompany KINES 330. COREQ: KINES 330.

**KINES 340 COMMUNITY HEALTH EDUCATION (3-0-3)(F)(Odd years).** Introduction to community health including its foundations, the tools of community health such as epidemiology, community organization, disease control, and health promotion. Focuses on the populations, settings, and special issues of community health. PREREQ: KINES 240.

**KINES 342 HEALTH 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: KINES 240.

**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 (Variable 2-3)(F/S).** Planning, organization, and 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. Two credits for those pursing a Health Endorsement. Three credits for elementary education majors. PREREQ: Admission to teacher education.

**KINES 360 PSYCHOLOGY OF COACHING (2-0-2)(F/S).** An examination of different coaching styles and psychological aspects of the coaching profession. Students will learn how to communicate effectively, establish discipline, handle outside pressures, and enhance team cohesion. PREREQ: Junior standing.

**KINES 363 EXERCISE PSYCHOLOGY (3-0-3)(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: Junior standing.

**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: Junior standing.

**KINES 370 BIOMECHANICS (3-0-3)(F/S).** Anatomical and mechanical considerations applied to human motion in sport and exercise. PREREQ: MATH 143, MATH 144, or MATH 170. COREQ: KINES 371.

**KINES 371 LABORATORY FOR BIOMECHANICS (0-2-1)(F/S).** The laboratory to accompany KINES 370. COREQ: KINES 370.

**KINES 375 HUMAN GROWTH AND MOTOR LEARNING (3-0-3)(F/S).** 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 270 and KINES 271. COREQ: KINES 376.

**KINES 376 LABORATORY FOR HUMAN GROWTH AND MOTOR LEARNING (0-2-1)(F/S).** The laboratory to accompany KINES 375. COREQ: KINES 375.

**KINES 403 (ZOOL 403) HEAD AND NECK ANATOMY (2-2-3)(F,S).** Use of human cadavers to study prosections 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 KiINES or ZOOL credit but not both. PREREQ: BIOL 191-192 or BIOL 227-228 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 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 430 PHYSICAL ACTIVITY AND AGING (3-0-3)(S).** Physiological aspects of aging and the influence of physical activity on the aging process, functional abilities, independence, and quality of life. PREREQ: Junior standing and KINES 330 and KINES 331 or PERM/INST. COREQ: KINES 431.

**KINES 431 LABORATORY FOR PHYSICAL ACTIVITY AND AGING (0-2-1)(F/S).** The laboratory to accompany KINES 430. COREQ: KINES 430.

**KINES 432 CONDITIONING PROCEDURES (2-0-2)(F/S)(FF).** Conditioning procedures with emphasis on program planning, objectives, exercise analysis, and prescription. PREREQ: KINES 330, KINES 331. COREQ: KINES 433.

**KINES 433 LABORATORY FOR CONDITIONING PROCEDURES (0-2-1)(F/S).** Laboratory to accompany KINES 432. PREREQ: KINES 330, KINES 331. COREQ: KINES 432.

**KINES 436 EXERCISE TESTING AND PRESCRIPTION (2-0-2)(F).** 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, KINES 331. COEREQ: KINES 437.

**KINES 437 LABORATORY FOR EXERCISE TESTING AND PRESCRIPTION (0-2-1)(F).** Laboratory to accompany KINES 436. PREREQ: KINES 330, KINES 331. COREQ: KINES 436.

**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 440 HEALTH PROMOTION PROGRAMMING (3-0-3)(F)(FF).** Utilizes the principles of health education and promotion programming and development to plan, implement, and evaluate a community-focused health program. PREREQ: KINES 240, KINES 342 and upper-division standing in Kinesiology.

**KINES 441 (NONPROF 441) GRANT WRITING (2-0-2)(S,SU).** Grant proposal writing for nonprofit organizations requires skills in identifying funding sources, determining program needs, creating budgets, defining methods, and devising evaluation plans. PREREQ: Upper-division standing and ENGL 202 or BUSCOM 201, or PERM/INST.

**KINES 445 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. Field experience is included. PREREQ: Junior standing.

**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.

**KINES 458 CURRICULUM DESIGN IN PHYSICAL EDUCATION (3-0-3)(F/S).** 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 super vision 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 super vision 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)(CID).** Design of experiments, methods of analysis, interpretation of results, and use of research to support evidence-based practice. PREREQ: ENGL 102 (or ENGL 112), 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 classroom to the practical setting. Required in some areas of emphasis. Areas of emphasis may maintain policies applicable to this internship. PREREQ: Junior standing, 2.5 GPA and PERM/INST.

**KIN-ACT – Kinesiology Activities**

The Kinesiology Activity Program provides instruction in a variety of activities. **Eight credits of fitness activity courses may be counted as electives toward graduation.** No kinesiology activity course may be challenged for credit. All kinesiology activity courses are graded pass/fail; therefore, credits earned count toward graduation but earn no quality points used in calculating the grade-point average.

**Certain KIN-ACT classes may be repeated. See course descriptions for further information.**

Kinesiology activity course numbers provide the following information:

1. 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.
2. 200-level courses are for the individual who has command of basic skills and is of intermediate or advanced performance level.

**Lower Division**

**KIN-ACT 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. Special fee required. (Pass/Fail).

**KIN-ACT 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. Special fee required. (Pass/Fail.)

**KIN-ACT 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. For students who do not know how to swim. May be repeated, maximum four credits. (Pass/Fail.)

**KIN-ACT 114 RAFTING (0-2-1)(S).** Basic skills of rafting. 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. (Pass/Fail.)

**KIN-ACT 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.)

**KIN-ACT 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.)

**KIN-ACT 117 POCKET BILLIARDS (0-2-1)(F,S).** Designed to cover Billiard Congress of American Rules, proper stance, grip, bridge, and stroke techniques, shot selection, offensive and defensive strategies, and proper pool etiquette. May be repeated, maximum of two credits. Special fee required. (Pass/Fail).

**KIN-ACT 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).

**KIN-ACT 119 CYCLING (0-2-1)(F/S).** Learn proper cycling technique, bicycle mechanics, road safety, and tour planning. Special fee: full-time students exempt. May be repeated, maximum eight credits. (Pass/Fail.)

**KIN-ACT 120 ROCK CLIMBING (0-2-1)(F/S).** Learn the challenge of rock climbing. Basic knots, repelling, belaying, and other climbing skills are taught. No experience necessary. Special fee required. (Pass/Fail.)

**KIN-ACT 121 RAPPELLING (0-2-1)(F/S).** Basic skills of rappelling, including setting anchors, belaying, communication, and equipment care. Special fee required. (Pass/Fail.)

**KIN-ACT 122 FOLK DANCE I (0-2-1)(SU).** Instruction and participation in techniques and application of basic steps and patterns used in folk dances from different countries. May be repeated, maximum four credits. (Pass/Fail.)

**KIN-ACT 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.)

**KIN-ACT 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.

**KIN-ACT 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. Special fee required. May be repeated, maximum four credits. (Pass/Fail.)

**KIN-ACT 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.)

**KIN-ACT 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.)

**KIN-ACT 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.)

**KIN-ACT 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.)

**KIN-ACT 149 SNOWBOARDING (0-2-1)(S).** Basic skills and techniques of snowboarding. Students furnish equipment and transportation. Special fee required. May be repeated, maximum four credits. (Pass/Fail.)

**KIN-ACT 150 LIVING LEARNING COMMUNITY: LIFETIME RECREATION (1-0-1)(F,S).** Required course for students residing in the University Housing Lifetime Recreation Living Learning Community, co-sponsored by University Health and Recreation Services. Development of leadership skills and self-awareness through mentoring opportunities, participating in activities including swimming, flag football, group exercise, rock climbing, and ice-block sledding. Interact with instructor and staff. May be repeated for credit. (Pass/Fail.) PREREQ: PERM/INST.

**KIN-ACT 151 ALPINE SKIING I (0-2-1)(S).** Basic skills and techniques of alpine skiing. Students furnish equipment and transportation. Special fee required. May be repeated, maximum four credits. (Pass/Fail.)

**KIN-ACT 152 BACKPACKING, CAMPING AND SURVIVAL SKILLS I (0-2-1)(F/S).** Fundamental skills in backpacking, overnight camping, and basic survival. Includes choice and care of equipment, camping sites, outdoor cooking skills, and ecology. Students furnish equipment and transportation. (Pass/Fail.)

**KIN-ACT 153 CROSS COUNTRY SKIING I (0-2-1)(S).** Basic skills and techniques of cross country skiing. Students furnish equipment and transportation. Special fee required. May be repeated, maximum four credits. (Pass/Fail.)

**KIN-ACT 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. Special fee required. May be repeated, maximum four credits. (Pass/Fail.)

**KIN-ACT 155 FLYTYING I (0-2-1)(F/S).** A practical orientation and application of flytying skills for the beginning or experienced fly tier. The course will focus on tying dry and wet flies, nymphs, bucktails, and streamers. Special fee required. May be repeated, maximum four credits. (Pass/Fail.)

**KIN-ACT 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.)

**KIN-ACT 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).

**KIN-ACT 162 ADAPTED PHYSICAL EDUCATION I (0-2-1)(F,S).** Adaptive and corrective exercise programs to aid men and women who are unable to participate in a regular activity class. Course is structured to meet the special needs of the individual. May be repeated for credit. (Pass/Fail.)

**KIN-ACT 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).

**KIN-ACT 164 ONLINE PERSONAL FITNESS AND GOAL SETTING (0-2-1)(F/S).** An on-line 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.

**KIN-ACT 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.)

**KIN-ACT 166 YOGA AND STRESS MANAGEMENT I (0-2-1)(F,S,SU).** Introduction to yoga theory, practice, and tradition; introduction to stress/distress theories; in-depth practice of Hatha Yoga postures: in-depth breath control (abdominal breath.) May be repeated, maximum four credits. (Pass/Fail.)

**KIN-ACT 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.)

**KIN-ACT 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 racquets and balls. May be repeated, maximum four credits. (Pass/Fail.)

**KIN-ACT 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.)

**KIN-ACT 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.)

**KIN-ACT 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.)

**KIN-ACT 211 KAYAKING II(0-2-1)(F/S).** Intermediate and advanced skills of kayaking. Covers stroke modifications, boat angle, boat lean, boat control, ferrying, eddy turns, peel outs, and reading water. Special fee required. May be taken two times for credit. (Pass/Fail.) PREREQ: KIN-ACT 111.

**KIN-ACT 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.)

**KIN-ACT 220 INTERMEDIATE ROCK CLIMBING (0-2-1)(F/S).** Instruction covers techniques for mid-fifth class climbing, protection and placements, belaying, and repelling in a safe manner. Content will help improve skill level and develop leading ability on suitable terrain. Personal climbing equipment required. May be repeated, maximum two credits. (Pass/Fail.) PREREQ: KIN-ACT 120 or PERM/INST.

**KIN-ACT 222 FOLK DANCE II (0-2-1).** Instruction and participation in folk dance for development of advanced skills. May be repeated, maximum four credits. (Pass/Fail.)

**KIN-ACT 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.)

**KIN-ACT 235 GOLF II (0-2-1).** Instruction and participation in golf for development of intermediate skills and techniques. Special fee required. May be repeated, maximum four credits. (Pass/Fail.) PREREQ: KIN-ACT 135.

**KIN-ACT 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: KIN-ACT 143 or PERM/INST.

**KIN-ACT 244 SELF-DEFENSE II (0-2-1).** 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: KIN-ACT 144.

**KIN-ACT 250 LIVING LEARNING COMMUNITY: LIFETIME RECREATION (1-0-1)(S).** Optional course for students residing in the University Housing Lifetime Recreation Living Learning Community who wish to repeat KIN-ACT 150 in their sophomore year, co-sponsored by University Health and Recreation Services. Additional leadership opportunities related to class activities including swimming, flag football, group exercise, rock climbing, and ice-block sledding. Includes additional assignments and reflections beyond those included in KIN-ACT 150. May be repeated for credit. (Pass/Fail.) PREREQ: PERM/INST.

**KIN-ACT 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: KIN-ACT 166 or PERM/INST.

**KIN-ACT 273 TENNIS II (0-2-1)(F,S,SU).** Instruction and participation in tennis for development of intermediate skills and techniques. Students furnish racquets and balls. May be repeated, maximum four credits. (Pass/Fail.) PREREQ: KIN-ACT 173.

**KIN-ACT 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: KIN-ACT 181.

**KIN-ACT 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: KIN-ACT 186.

**KIN-ACT 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.)

**KIN-ACT 291 VARSITY SPORTS (0-2-1)(F,S).** Instruction and participation in Boise State Department of Athletics-approved sports. Coach's approval required. May be repeated, maximum four credits. (Pass/Fail.)

# Leadership and Human Relations Certificate

*College of Innovation and Design*

Communication Building, Room 105 Phone: (208) 426-2404
http://coid.boisestate.edu/leadership/
E-mail: hreeder@boisestate.edu

Program Director: Heidi Reeder

## Program Offered

- Certificate in Leadership and Human Relations

## Program Statement

The Certificate in Leadership and Human Relations is a 16 credit interdisciplinary and experiential program open to all Boise State University undergraduate students.

The purpose of the program is to investigate ideas that promote an understanding of leadership, and use those ideas to develop innovative, high integrity leaders who change the world. Integrating the fields of leadership and personal development, the certificate program approaches leadership from the inside out. Through dynamic experiences and projects, students will be better equipped for leadership in multiple contexts, and in a changing world.

## Program Requirements

| Certificate in Leadership and Human Relations | |
|---|---|
| *Course Number and Title* | *Credits* |
| LEAD 325 Foundations in Leadership | 3 |
| LEAD 326 Exploration of Leadership | 3 |
| LEAD 327 Relational Leadership | 3 |
| Select from the following courses:<br>COMM/DISPUT/SOC 390 Conflict Management<br>DISPUT 401 Negotiation<br>DISPUT 402 Culture and Conflict<br>LEAD 480 Studies in Leadership | 6 |
| LEAD 495 Leadership Experience | 1 |
| *Total* | 16 |
| Students must complete all 16 credits with a C or above. | |

## Course Offerings

**See page 63 for a definition of the course-numbering system.**

**LEAD – Leadership**

**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 EXPLORATION 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. Completion of LEAD 325 is recommended. PREREQ: sophomore standing.

**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. PREREQ: sophomore standing.

**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 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 one or more community projects to organize, implement, and reflect on as a vehicle to demonstrate leadership. PREREQ: LEAD 325, LEAD 326, LEAD 327, and sophomore standing.

## Linguistics — see Department of English

# Department of Literacy, Language, and Culture

*College of Education*

Education Building, Room 504 Phone: (208) 426-2862
Advising Office, Room 503 Phone: (208) 426-3962
http://education.boisestate.edu/literacy Fax: (208) 334-2337

*Chair and Professor:* Stan Steiner. *Professors:* Armstrong, Bahruth, Boothe, Martin, Peralta, Stewart. *Associate Professors:* Cahill, Chase, Son, Rodriguez, Tysseling. *Lecturers:* Kirby, Loffer, Mulhern.

## Degrees Offered

- Bachelor of Arts in Elementary Education, Bilingual/ENL
- Bachelor of Arts in Elementary Education, TESOL/ENL
- Endorsement: Literacy K-12

## 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 new language (ENL) 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 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; in addition, the department offers several courses at the 100-level, which are university-service courses that build foundations for student academic success. Two of these courses are jointly offered by the department and Advising and Academic Enhancement. For students planning to earn an endorsement in Literacy, please see the guidelines that follow.

The **Elementary Education, TESOL/ENL** program prepares candidates to teach English language learners (ELLs) in various contexts, including general education or ENL 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 New Language (K-12). Four semester credit hours in a modern language other than English are required.

The **Elementary Education, Bilingual/ENL** prepares candidates to teach in a bilingual (Spanish-English) program. Candidates earn an elementary certification (K-8) and endorsements in both Bilingual Education (K-12) and English as a New Language (K-12). Graduates may teach in a bilingual program, teach ELLs in various contexts, or teach in a general education setting. Spanish language proficiency is developed through Spanish classes; students are required to pass the ACTFL proficiency assessment at an advanced level.

The **Endorsement in Literacy** provides enhanced depth and breadth of coursework in reading and language arts. This enhanced knowledge allows the student to be endorsed in literacy education K-12. Twenty-three semester credits are required, which include courses from each of the seven following areas: Foundations of Literacy; Literacy in the Content Area; Corrective/Diagnostic/Remedial Reading; Development and Diversity of Literacy Learners; Literature for Youth; Language Development; and Writing Instruction. The courses listed here represent suggestions that fulfill the twenty-three (23) credit endorsement (See degree box below). Students must earn a C (74%) 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.

## Degree Requirements

| Elementary Education Bilingual/ENL Bachelor of Arts | |
|---|---|
| *Course Number and Title* | *Credits* |
| Foundational Studies Program requirements indicated in **bold**. See page 50 for details and lists of approved courses. | |
| **ENGL 101** Introduction to College Writing | 3 |
| **ENGL 102** Intro to College Writing and Research | 3 |
| **UF 100** Intellectual Foundations | 3 |
| **UF 200** Civic and Ethical Foundations | 3 |
| **DLM** MATH 257 Geometry and Probability for Teachers | 4 |
| **DLN** Natural, Physical, & Applied Sciences course with lab | 4 |
| **DLN** Natural, Physical, and Applied Sciences course | 3-4 |
| **DLV** Visual and Performing Arts | 3 |
| **DLL** SPANISH 201 Intermediate Spanish | 4 |
| **DLS** ED-CIFS 201 Foundations of Education | 3 |
| **DLS** ED-LLC 200 Cultural Diversity in the Schools | 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 330 Elementary Social Studies Curriculum & Instruction | 3 |
| ED-CIFS 331 Elementary Mathematics Curriculum and Instruction | 3 |
| ED-CIFS 332 Elementary Classroom Learning Environments | 3 |
| ED-CIFS 333 Elementary Science Curriculum and Instruction | 3 |
| ED-ESP 250 Exceptionality in the Schools | 3 |
| ED-LLC 300 Foundations of Linguistics, Language Acquisition, & Pedagogy | 3 |
| ED-LLC 302 Developing Biliteracy in the Bilingual Classroom | 3 |
| ED-LLC 303 Teaching Content in the Bilingual/ENL Classroom | 3 |
| ED-LLC 305 Spanish for the Bilingual Classroom | 2 |
| ED-LLC 306 Field Experience in the Bilingual or ENL Classroom | 1 |
| ED-LLC 331 Assessment of Learners in the Bilingual Classroom | 3 |
| ED-LLC 340 Idaho Comprehensive Literacy | 4 |
| ED-LLC 345 Writing Process and Assessment | 3 |
| **FF** ED-LLC 400 Constructing a Professional Portfolio | 1 |
| **CID** ED-LLC 440 Content Area Language Arts: K-8 | 3 |
| ED-LLC 460 Professional Year I | 5 |
| ED-LLC 461 Professional Year II: Teaching Experience in Bilingual/ENL Education | 6 |
| ED-LLC 462 Professional Year III: Teaching Experience in Bilingual/ENL Education | 6 |
| EDTECH 202 Teaching and Learning in a Digital Age | 3 |
| KINES 355 Elementary School Health & PE Curriculum & Instruction | 3 |
| MATH 157 Structure of Arithmetic for Teachers | 4 |
| SPANISH 202 or SPANISH 203 Intermediate Spanish | 4 |
| *Continued* | |

| *Elementary Education Bilingual/ENL continued* | |
|---|---|
| SPANISH 303 Advanced Spanish Conversation and Composition<br>(Students who successfully complete SPANISH 303 with a grade of C or better may apply for credit for prerequisites not taken and may use SPANISH 201, SPANISH 202, or SPANISH 203 in fulfillment of requirements.) | 3 |
| SPANISH 304 Introduction to Hispanic Literature | 3 |
| SPANISH 385 Mexican American Culture and Civilization or SPANISH 412 Advanced Spanish Grammar and Syntax<br>(Prior to the professional (senior) year, Bilingual Education majors must demonstrate oral and written proficiency in Spanish by successfully passing the American Council for Teachers of Foreign Languages (ACTFL) at an advanced level.) | 3 |
| *Total* | 120-121 |
| 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 or bilingual elementary classroom. The certificate will also be endorsed for Bilingual Education, K-12 and English as a Second Language, K-12. | |

## Elementary Education TESOL/ENL Bachelor of Arts

| *Course Number and Title* | *Credits* |
|---|---|
| Foundational Studies Program requirements indicated in **bold**. See page 50 for details and lists of approved courses. | |
| **ENGL 101** Introduction to College Writing | 3 |
| **ENGL 102** Intro to College Writing and Research | 3 |
| **UF 100** Intellectual Foundations | 3 |
| **UF 200** Civic and Ethical Foundations | 3 |
| **DLM** MATH 257 Geometry and Probability for Teachers | 4 |
| **DLN** Natural, Physical, & Applied Sciences course with lab | 4 |
| **DLN** Natural, Physical, and Applied Sciences course | 3-4 |
| **DLV** Visual and Performing Arts | 3 |
| **DLL** World Language | 4 |
| **DLS** ED-CIFS 201 Foundations of Education | 3 |
| **DLS** ED-LLC 200 Cultural Diversity in the Schools | 3 |
| ART 321 Elementary School Art Methods or<br>COUN 301 Guidance and Counseling in Schools or<br>MUS 374 Music Fundamentals & Methods for the Elementary Classroom Teacher | 3 |
| ED-CIFS 203 Child and Educational Psychology | 3 |
| ED-CIFS 330 Elementary Social Studies Curriculum & Instruction | 3 |
| ED-CIFS 331 Elementary Mathematics Curriculum and Instruction | 3 |
| ED-CIFS 332 Elementary Classroom Learning Environments | 3 |
| ED-CIFS 333 Elementary Science Curriculum and Instruction | 3 |
| ED-ESP 250 Exceptionality in the Schools | 3 |
| ED-LLC 205 Migration Studies in Education | 3 |
| ED-LLC 300 Foundations of Linguistics, Language Acquisition, & Pedagogy | 3 |
| ED-LLC 303 Teaching Content in the Bilingual/ENL Classroom | 3 |
| *Continued* | |

| *Elementary Education TESOL/ENL continued* | |
|---|---|
| ED-LLC 306 Field Experience in the Bilingual or ENL Classroom | 1 |
| ED-LLC 331 Assessment of Learners in the Bilingual Classroom | 3 |
| ED-LLC 340 Idaho Comprehensive Literacy | 4 |
| ED-LLC 345 Writing Process and Assessment | 3 |
| **FF** ED-LLC 400 Constructing a Professional Portfolio | 1 |
| **CID** ED-LLC 440 Content Area Language Arts: K-8 | 3 |
| ED-LLC 460 Professional Year I | 5 |
| ED-LLC 461 Professional Year II: Teaching Experience in Bilingual/ENL Education | 6 |
| ED-LLC 462 Professional Year III: Teaching Experience in Bilingual/ENL Education | 6 |
| EDTECH 202 Teaching and Learning in a Digital Age | 3 |
| KINES 355 Elementary School Health & PE Curriculum & Instruction | 3 |
| MATH 157 Structure of Arithmetic for Teachers | 4 |
| Electives to total 120 credits | 10-11 |
| *Total* | 120 |
| 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 ENL classrooms also. | |

## Literacy Endorsement: K-12

| *Course Number and Title* | *Credits* |
|---|---|
| Area I: Foundations of Literacy<br>ED-LLC 340 Idaho Comprehensive Literacy | 4 |
| Area II: Reading in the Content Area<br>ED-LLC 440 Content Area Language Arts: K-8<br>ED-LLC 444 Content Literacy for Secondary Students | 3 |
| Area III: Corrective/Diagnostic/Remedial Reading<br>ED-LLC 343 Reading Diagnosis and Intervention | 4 |
| Area IV: Language and Development<br>ED-LLC 300 Foundations of Linguistics, Language Acquisition, & Pedagogy<br>ED-LLC 448 Psycholinguistics and Literacy<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 481 Literature for Use in Junior and Senior High School | 3 |
| Area VI: Writing Instruction<br>ED-LLC 345 Writing Process and Assessment for K-8 Classrooms<br>ENGL 301 Teaching English Composition | 3 |
| Area VII: Development and Diversity of Literacy Learners<br>ED-LLC 200 Cultural Diversity in the Schools | 3 |
| *Total* | 23 |
| Students must earn a C (74%) 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

**See page 63 for a definition of the course-numbering system.**

**ED-LLC – Literacy, Language and Culture**

**Lower Division**

**ED-LLC 105 (ACAD 105) READING AND STUDY STRATEGIES (3-0-3) (F).** Topics include five learning tools, memory, rationale for strategies. Strategies include reading textbooks, selecting key information from various types of text, note taking, preparing for tests, test taking, and written reflections. May be taken for ED-LLC or ACAD credit, but not both. (Pass/Fail.)

**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 120 (ACAD120) COMPREHENSION OF TEXTBOOKS AND TEXT STRUCTURE (3-0-3)(F,S).** Emphasizes comprehension, vocabulary, and study strategies based on the organizational patterns found in college textbook chapters, informational essays, and news magazine articles. Direct applications of strategies to the reading materials in students' current university courses. May be taken for ED-LLC or ACAD credit, but not both.

**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)(DLS).** 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 203 FILM AND CONTEMPORARY ISSUES IN EDUCATION (3-0-3)(F,SU)(DLS).** 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, LANGUAGE ACQUISITION, AND LANGUAGE PEDAGOGY (3-0-3)(S).** Foundation of the components of language and language as a system. Understanding of language acquisition as applied to English learners including literacy development, language varieties, and the role of sociocultural and individual learner variables. Historical and current pedagogy of language for English learners in K-12 settings. PRE/COREQ: ED-LLC 200.

**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: SPANISH 202 or SPANISH 203. PRE/COREQ: ED-LLC 340.

**ED-LLC 303 TEACHING CONTENT IN THE BILINGUAL/ENL CLASSROOM (3-0-3)(S).** Instructional strategies, techniques, and methods across the content areas for use in the elementary bilingual/ENL classroom. 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. PRE/COREQ: SPANISH 303.

**ED-LLC 306 FIELD EXPERIENCE IN THE BILINGUAL OR ENL CLASSROOM (3-0-1)(S).** A field placement in a bilingual education or English as a New Language class 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 LEARNERS IN THE BILINGUAL CLASSROOM (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. PRE/COREQ: ED-LLC 302.

**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 and ED-LLC 440.

**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.

**ED-LLC 346 CHILDREN'S LITERATURE (3-0-3)(F,S,SU)(CID).** 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 (or ENGL 112).

**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) (CID).** 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 (or ENGL 112). PRE/COREQ: ED-LLC 340.

**ED-LLC 444 CONTENT LITERACY FOR SECONDARY STUDENTS (3-0-3)(F,SU)(CID).** 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 (or ENGL 112), 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/ENL 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-CIFS 332.

**ED-LLC 461 PROFESSIONAL YEAR II: TEACHING EXPERIENCE IN BILINGUAL /ENL EDUCATION (0-21-6)(F,S).** Teaching experience in a bilingual/ENL classroom, including activities related to planning and preparation, classroom environments, curriculum and instruction in the bilingual/ENL classroom, and with the calendar of the assigned partnership school. 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 332, ED-CIFS 333, ED-CIFS 460, and ED-LLC 440. COREQ: ED-LLC 462.

**ED-LLC 462 PROFESSIONAL YEAR III: TEACHING EXPERIENCE IN BILINGUAL/ENL EDUCATION (0-21-6)(F,S).** The concluding teaching experience in Professional Year for students pursuing an endorsement in Bilingual Education/ENL classroom, with a full-time teaching experience in a bilingual and/ENL classroom. 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 332, ED-CIFS 333, ED-LLC 440, 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 Phone: (208) 426-1313
http://cobe.boisestate.edu/management

*Chair and Professor:* Gundars Kaupins. *Professors:* Baughn, Buchanan, Neupert, Wanek. *Associate Professors:* McIntosh, McNatt, Park, Sugheir. *Assistant Professors:* Mattingly, Taylor Black. *Lecturers:* Larabee, Martinez, Poole, Reed, Suciu.

## Degrees Offered

- Bachelor of Business Administration in Entrepreneurship Management
- Bachelor of Business Administration in General Business
- Bachelor of Business Administration in Human Resource Management
- Minor in Entrepreneurship Management
- Minor in Human Resource Management
- Minor in Nonprofit Management

## Department Statement

The Department of Management offers three majors: General Business, Entrepreneurship Management, and Human Resource Management.

The general business major provides a broad-based curriculum and is designed for students who do not wish to specialize in any single area of business. Emphasis is placed on the development of logical thinking and the use of technical tools directed at recognizing and solving problems that occur in the business community.

A major in General Business is appropriate for those students who wish to enter management-trainer programs offered by business corporations, ranging from the fast-food industry to public utilities to financial institutions.

The Entrepreneurship Management major is appropriate for students who may wish to start their own business someday, work in a family-owned business and/or work for smaller businesses.

The Human Resource Management major provides a solid foundation for those 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.

## Admission Requirements

Students interested in pursuing a degree in the College of Business and Economics (COBE) must be admitted to the college. Admission to COBE is required before a student may enroll in most upper-division business and economics courses. See page 13 for exceptions to these requirements.

Admission to COBE is competitive and based on various academic criteria such as overall GPA, performance in gateway courses, and other business and economics courses. Meeting the criteria does not guarantee admission. Please see the COBE advising website: http://cobe.boisestate.edu/studentadvising/ to obtain specific information about the application process and application deadlines.

To be considered for admission, students must:

- Complete each of the following gateway courses with a grade of C- or better:
  - ACCT 205 Introduction to Financial Accounting
  - ACCT 206 Introduction to Managerial Accounting
  - BUSCOM 201 Business Communication
  - BUSSTAT 207 Statistical Techniques for Decision Making I
  - ECON 201 Principles of Macroeconomics
  - ECON 202 Principles of Microeconomics
  - GENBUS 101 Business for the New Generation
  - ITM 104 Operating Systems and Word Processing Topics
  - ITM 105 Spreadsheet Topics
  - MATH 160 Survey of Calculus
- Meet minimum cumulative GPA requirement of 2.5. A minimum cumulative GPA of 2.5 must be maintained in order to remain admitted to COBE.

## Degree Requirements

| General Business<br>Bachelor of Business Administration | |
|---|---|
| *Course Number and Title* | *Credits* |
| Foundational Studies Program requirements indicated in **bold**. See page 50 for details and lists of approved courses. | |
| **ENGL 101** Introduction to College Writing | 3 |
| **ENGL 102** Intro to College Writing and Research | 3 |
| **UF 100** Intellectual Foundations | 3 |
| **UF 200** Civic and Ethical Foundations | 3 |
| **DLM** MATH 160 Survey of Calculus or MATH 170 Calculus I | 4 |
| **DLN** Natural, Physical, & Applied Sciences course with lab | 4 |
| **DLN** Natural, Physical, and Applied Sciences course | 3-4 |
| **DLV** Visual and Performing Arts | 3 |
| **DLL** Literature and Humanities | 3-4 |
| **DLS** COMM 101 Fundamentals of Communication | 3 |
| **DLS** ECON 201 Principles of Macroeconomics | 3 |
| ACCT 205 Introduction to Financial Accounting | 3 |
| ACCT 206 Introduction to Managerial Accounting | 3 |
| **CID** BUSCOM 201 Business Communication | 3 |
| BUSSTAT 207-208 Statistical Techniques for Decision Making | 6 |
| ECON 202 Principles of Microeconomics | 3 |
| FINAN 303 Principles of Finance | 3 |
| GENBUS 101 Business for the New Generation | 3 |
| GENBUS 202 The Legal Environment of Business | 3 |
| **FF** GENBUS 450 Business Policies | 3 |
| Successful completion of the COBE Computer Placement Exam for: Word Processing and Spreadsheets, or<br>ITM 104 Operating Systems & Word Processing Topics and<br>ITM 105 Spreadsheet Topics | 0-2 |
| ITM 310 Business Intelligence | 3 |
| MGMT 301 Leadership Skills | 3 |
| MKTG 301 Principles of Marketing | 3 |
| PSYC 101 General Psychology | 3 |
| SCM 345 Principles of Operations Management | 3 |
| International Business requirement:<br>INTBUS 220 Go Global: You and the World Economy<br>ECON 317 International Economics<br>FINAN 430 International Finance<br>MGMT 334 International Management<br>MKTG 430 International Marketing<br>Or a university-sponsored semester abroad (requires department approval). | 3 |
| Choose four, at least one of which must be a HRM course:<br>ENTREP 420 New Venture Creation<br>GENBUS 302 Commercial Law<br>GENBUS 441 Business in Society<br>HRM 305 Human Resource Management<br>HRM 340 Employee and Labor Relations<br>HRM 408 Employee Staffing and Training<br>MGMT 410 Advanced Management Topics | 12 |
| Choose three of the following:<br>MKTG 321 Professional Selling<br>SCM 416 Procurement and Supply Chain Integration<br>Or any other upper-division COBE courses for which you have the prerequisites | 9 |
| Electives to total 120 credits | 12-16 |
| *Total* | 120 |

| Entrepreneurship Management<br>Bachelor of Business Administration | |
|---|---|
| *Course Number and Title* | *Credits* |
| Foundational Studies Program requirements indicated in **bold**. See page 50 for details and lists of approved courses. | |
| **ENGL 101** Introduction to College Writing | 3 |
| **ENGL 102** Intro to College Writing and Research | 3 |
| **UF 100** Intellectual Foundations | 3 |
| **UF 200** Civic and Ethical Foundations | 3 |
| **DLM** MATH 160 Survey of Calculus or MATH 170 Calculus I | 4 |
| **DLN** Natural, Physical, & Applied Sciences course with lab | 4 |
| **DLN** Natural, Physical, and Applied Sciences course | 3-4 |
| **DLV** Visual and Performing Arts | 3 |
| **DLL** Literature and Humanities | 3-4 |
| **DLS** COMM 101 Fundamentals of Communication | 3 |
| **DLS** ECON 201 Principles of Macroeconomics | 3 |
| ACCT 205 Introduction to Financial Accounting | 3 |
| ACCT 206 Introduction to Managerial Accounting | 3 |
| **CID** BUSCOM 201 Business Communication | 3 |
| BUSSTAT 207-208 Statistical Techniques for Decision Making I & II | 6 |
| 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 |
| GENBUS 101 Business for the New Generation | 3 |
| GENBUS 202 The Legal Environment of Business | 3 |
| GENBUS 302 Commercial Law | 3 |
| GENBUS 441 Business in Society | 3 |
| **FF** GENBUS 450 Business Policies | 3 |
| HRM 305 Human Resource Management | 3 |
| Successful completion of the COBE Computer Placement Exam for: Word Processing and Spreadsheets, or<br>ITM 104 Operating Systems & Word Processing Topics and<br>ITM 105 Spreadsheet Topics | 0-2 |
| ITM 310 Business Intelligence | 3 |
| MGMT 301 Leadership Skills | 3 |
| MGMT 410 Advanced Management Topics | 3 |
| MKTG 301 Principles of Marketing | 3 |
| MKTG 420 Marketing Management | 3 |
| PSYC 101 General Psychology | 3 |
| SCM 345 Principles of Operations Management | 3 |
| International Business:<br>INTBUS 220 Go Global: You and the World Economy<br>ECON 317 International Economics<br>FINAN 430 International Finance<br>MGMT 334 International Management<br>MKTG 430 International Marketing<br>Or a university-sponsored semester abroad (requires department approval).<br>(INTBUS 443 is recommended.) | 3 |
| Electives to total 120 credits | 9-13 |
| *Total* | 120 |

| Human Resource Management<br>Bachelor of Business Administration | |
|---|---|
| *Course Number and Title* | *Credits* |
| Foundational Studies Program requirements indicated in **bold**. See page 50 for details and lists of approved courses. | |
| **ENGL 101** Introduction to College Writing | 3 |
| **ENGL 102** Intro to College Writing and Research | 3 |
| **UF 100** Intellectual Foundations | 3 |
| **UF 200** Civic and Ethical Foundations | 3 |
| **DLM** MATH 160 Survey of Calculus or MATH 170 Calculus I | 4 |
| **DLN** Natural, Physical, & Applied Sciences course with lab | 4 |
| **DLN** Natural, Physical, and Applied Sciences course | 3-4 |
| **DLV** Visual and Performing Arts | 3 |
| **DLL** Literature and Humanities | 3-4 |
| **DLS** COMM 101 Fundamentals of Communication | 3 |
| **DLS** ECON 201 Principles of Macroeconomics | 3 |
| ACCT 205 Introduction to Financial Accounting | 3 |
| ACCT 206 Introduction to Managerial Accounting | 3 |
| **CID** BUSCOM 201 Business Communication | 3 |
| BUSSTAT 207-208 Statistical Techniques for Decision Making I & II | 6 |
| ECON 202 Principles of Microeconomics | 3 |
| FINAN 303 Principles of Finance | 3 |
| GENBUS 101 Business for the New Generation | 3 |
| GENBUS 202 The Legal Environment of Business | 3 |
| GENBUS 441 Business in Society | 3 |
| **FF** GENBUS 450 Business Policies | 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 |
| Successful completion of the COBE Computer Placement Exam for: Word Processing and Spreadsheets, or<br>ITM 104 Operating Systems & Word Processing Topics and<br>ITM 105 Spreadsheet Topics | 0-2 |
| ITM 310 Business Intelligence | 3 |
| MGMT 301 Leadership Skills | 3 |
| MGMT 410 Advanced Management Topics | 3 |
| MKTG 301 Principles of Marketing | 3 |
| PSYC 101 General Psychology | 3 |
| SCM 345 Principles of Operations Management | 3 |
| International Business:<br>INTBUS 220 Go Global: You and the World Economy<br>ECON 317 International Economics<br>FINAN 430 International Finance<br>MGMT 334 International Management<br>MKTG 430 International Marketing<br>Or a university-sponsored semester abroad (requires department approval). | 3 |
| One of the following:<br>COMM 307 Interviewing<br>COMM 390/SOC 390 Conflict Management<br>HRM 408 Employee Staffing and Training | 3 |
| Electives to total 120 credits | 12-16 |
| *Total* | 120 |

## Double Major Requirements

A number of students want to major in General Business and either Entrepreneurship or Human Resource Management. Because the majors are closely related, the attached list has been designed so that there is no doubt about what students may or may not take for double major combinations.

Net Result: To be a double major in General Business and either Entrepreneurship or Human Resource Management, you will have to take three additional courses beyond your General Business major.

If you double major in General Business and Human Resource Management, you may not count the following courses in the General Business Major. This also applies to the General Business Major and Human Resource Management Minor combination.

COMM 307 Interviewing
COMM 390/SOC 390 Conflict Management
HRM 330 Human Resource Law
HRM 406 Compensation and Benefits
HRM 408 Employee Staffing and Training

If you double major in General Business and Entrepreneurship, you may not count the following courses in the General Business Major. This also applies to the General Business Major and Entrepreneurship Management Minor combination.

ENTREP 320 Entrepreneurial Skills
ENTREP 420 New Venture Creation
ENTREP 421 Managing an Emerging Business

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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 | |
|---|---|
| *Course Number and Title* | *Credits* |
| ENTREP 320* Entrepreneurial Skills | 3 |
| ENTREP 420* New Venture Creation | 3 |
| ENTREP 421* Managing an Emerging Business | 3 |
| MGMT 301 Leadership Skills | 3 |
| Two courses chosen from:<br>INTBUS 443* Importing and Exporting Procedures<br>MGMT 493* Internship<br>SCM 420 Creating Sustainable Goods and Services | 6 |
| *Total* | 18 |
| *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 an human resource management minor.

| Human Resource Management Minor | |
|---|---|
| *Course Number and Title* | *Credits* |
| 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 |
| MGMT 301 Leadership Skills | 3 |
| *Continued* | |

| *Human Resource Management Minor continued* | |
|---|---|
| One course chosen from:<br>COMM 307 Interviewing<br>COMM/DISPUT/SOC 390 Conflict Management<br>GENBUS 441* Business in Society: Ethics, Responsibility & Sustainability<br>HRM 408* Employee Staffing and Training | 3 |
| *Total* | 18 |
| *Require admission to COBE. | |

The Nonprofit Management Minor is a 20 credit interdisciplinary focus upon nonprofit management and community development efforts. 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 | |
|---|---|
| *Course Number and Title* | *Credits* |
| BUSCOM 201 Business Communication or<br>CMGT 201 Construction Communications or<br>ENGL 202 Technical Communication | 3 |
| HRM 305 Human Resource Management | 3 |
| MGMT 301 Leadership Skills | 3 |
| NONPROF 240 Introduction to Nonprofit Management | 3 |
| NONPROF/KINES 441 Grant Writing | 2 |
| NONPROFIT 450 Volunteer Management & the Nonprofit | 3 |
| Choose from:<br>COMM 356 Communication in the Small Group<br>COMM/DISPUT/SOC 390 Conflict Management<br>NONPROFIT 493 Internship<br>SOC 403 Social Change | 3 |
| *Total* | 20 |

## Course Offerings

**See page 63 for a definition of the course-numbering system.**

Upper-division courses in the Department of Management (those with a course number 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.

**ENTREP – Entrepreneurship Management**

**Upper Division**

**ENTREP 320 ENTREPRENEURIAL SKILLS (3-0-3)(F,S).** Covers opportunity recognition, feasibility planning, family business considerations, cash flow planning, written and oral presentation of feasibility plans, and marketing, accounting, legal and human resource issues for start-up businesses. PREREQ: Admission to COBE or Construction Management major, Junior standing or PERM/INST.

**ENTREP 415 THE ART OF BARGAINING IN BUSINESS (3-0-3)(Offered 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, MGMT 301 and Junior standing or PERM/INST.

**ENTREP 420 NEW VENTURE CREATION (3-0-3)(F).** Create a new venture while simultaneously developing an implementable business plan for a technology based enterprise. Techniques in opportunity recognition; opportunity assessment; venture team creation and management, business plan development, and venture fund raising to commercialize a technology patent(s)

available from one of the national laboratories. PREREQ: Admission to COBE, ENTREP 320, FINAN 303, MGMT 301, MKTG 301 or PERM/INST.

**ENTREP 421 MANAGING AN EMERGING BUSINESS (3-0-3)(S).** Study of problems encountered by newer business organizations. Covers planning to achieve growth, organizational and legal issues, financial statement analysis, cash-flow analysis, financing tactics, and marketing and sales strategies. PREREQ: Admission to COBE, ENTREP 420, ITM 310, and SCM 345 or PERM/INST.

**ENTREP 493 INTERNSHIP (number of credits varies)(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.

**GENBUS – General Business**

**Lower Division**

**GENBUS 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.

**GENBUS 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.

**GENBUS 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**

**GENBUS 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, GENBUS 202.

**GENBUS 304 LAW FOR ACCOUNTANTS I (3-0-3)(F).** Covers introduction to law, contracts, sales and commercial paper and secured transactions. First of two courses required for accountancy majors. PREREQ: Admission to COBE.

**GENBUS 305 LAW FOR ACCOUNTANTS II (3-0-3)(S).** Covers suretyship, bankruptcy and property law, agency, partnerships and corporations, estates and trusts, government regulation and the role of the CPA in law. Second of two courses required for accountancy majors. PREREQ: Admission to COBE, GENBUS 304.

**GENBUS 360 BUSINESS ETHICS AND SOCIAL RESPONSIBILITY (3-0-3)(Offered on Demand).** An exploration of business conduct and social responsibility in the light of existing ethical, moral, and social values. Designed to enable students to form individual opinions on ethical conduct and social responsibility. PREREQ: Admission to COBE or Certificate in Technical Communication.

**GENBUS 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 or English, Technical Communications Emphasis, GENBUS 202, (GENBUS 302 recommended).

**GENBUS 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, MGMT 301, MKTG 301, SCM 345.

**HRM – Human Resource Management**

**Upper Division**

**HRM 305 HUMAN RESOURCE MANAGEMENT (3-0-3)(F,S).** 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 the law and the effective application of these principles. Such issues as organizing campaigns, unfair labor practices, picketing, work stoppages, and the mechanism of conflict resolution are discussed. PREREQ: Admission to COBE or Construction Management major, ENGL 102 (or ENGL 112) and GENBUS 202.

**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. PREREQ: Admission to COBE or Construction Management major, ENGL 102 (or ENGL 112) and GENBUS 202.

**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/INST.

**HRM 408 EMPLOYEE STAFFING AND TRAINING (3-0-3)(S).** Current trends in selection and training, 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 (number of credits varies)(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.

**MGMT – Management**

**Upper Division**

**MGMT 301 LEADERSHIP SKILLS (3-0-3)(F/S).** 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 202 for non-business majors or CMGT 201 for construction management majors.

**MGMT 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, MGMT 301.

**MGMT 401 ORGANIZATION BEHAVIOR (3-0-3)(Offered on Demand).** Emphasis on action skills useful for managers. Topics include managing of self, communicating, motivating, innovating, managing a group, use of formal and social power, persuading, and dealing with uncertainty. PREREQ: Admission to COBE or ENGLISH, Technical Communications Emphasis or Certificate in Technical Communication, MGMT 301.

**MGMT 405 MANAGEMENT OF CONTINUOUS LEARNING (3-0-3) (Offered on Demand).** This course examines how managers can facilitate organizational, team, and individual learning. It reviews the organizational and managerial innovations needed to support quality management and customer satisfaction. It will draw upon a variety of disciplines, including: learning theory, Japanese management, socio-technical systems theory, and social psychology of group problem solving. Special emphasis will be placed on skills in developing effective teams. PREREQ: Admission to COBE or English, Technical Communication Emphasis, or Certificate in Technical Communication, MGMT 301.

**MGMT 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, MGMT 301.

**MGMT 493 INTERNSHIP (number of credits varies)(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.

**NONPROF – Nonprofit Management**

**Lower Division**

**NONPROF 240 INTRODUCTION TO NONPROFIT MANAGEMENT (3-0-3)(F,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 441 (KINES 441) GRANT WRITING (2-0-2)(S,SU).** Grant proposal writing for nonprofit organizations requires skills in identifying funding sources, determining program needs, creating budgets, defining methods, and devising evaluation plans. PREREQ: Upper-division standing and ENGL 202 or BUSCOM 201, or PERM/INST.

**NONPROF 450 VOLUNTEER MANAGEMENT AND THE NONPROFIT (3-0-3)(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/INST.

**NONPROF 493 INTERNSHIP (number of credits varies)(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: PERM/INST.

# Department of Marketing and Finance

*College of Business and Economics*

Micron Business and Economics Building, Room 2240 Phone: (208) 426-3356
cobe.boisestate.edu/marketingandfinance
E-mail: marketingandfinance@boisestate.edu

*Chair and Professor:* Trina Sego. *Professors:* Harvey, Maher, Ray, Sarin, Schooley-Pettis, Smith, White. *Associate Professor:* MacDonald. *Assistant Professors:* Hunt, Koppenhafer, McBrayer, Roark.

## Degrees Offered

- Bachelor of Business Administration in Finance
- Bachelor of Business Administration in Marketing
- Minor in Finance
- Minor in Marketing

## Department Statement

The Department of Marketing and Finance offers courses leading to an undergraduate degree in marketing or finance. Marketing majors take a general program of study that includes customer behavior, marketing research, marketing planning, and professional selling. Finance majors take a general program of study that includes courses in investment management, corporate finance, and financial institutions. Many Finance majors double major in Accounting by taking their electives in Accounting, and the two departments have structured their programs so that double majors can complete their programs without exceeding the minimum credit hours required for an undergraduate degree.

The goal of the Department of Marketing and 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 marketing and finance. The curriculum for these majors addresses current business trends and the developing global economy through such courses as international marketing, international finance, and occasional special topics courses. Students gain practical experience through internships at local companies and case studies in marketing and 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 admitted to the college. Admission to COBE is required before a student may enroll in most upper-division business and economics courses. See page 13 for exceptions to these requirements.

Admission to COBE is competitive and based on various academic criteria such as overall GPA, performance in gateway courses, and other business and economics courses. Meeting the criteria does not guarantee admission. Please see the COBE advising website: http://cobe.boisestate.edu/studentadvising/ to obtain specific information about the application process and application deadlines.

To be considered for admission, students must:

- Complete each of the following gateway courses with a grade of C- or better:
  - ACCT 205 Introduction to Financial Accounting
  - ACCT 206 Introduction to Managerial Accounting
  - BUSCOM 201 Business Communication
  - BUSSTAT 207 Statistical Techniques for Decision Making I
  - ECON 201 Principles of Macroeconomics
  - ECON 202 Principles of Microeconomics
  - GENBUS 101 Business for the New Generation
  - ITM 104 Operating Systems and Word Processing Topics
  - ITM 105 Spreadsheet Topics
  - MATH 160 Survey of Calculus
- Meet minimum cumulative GPA requirement of 2.5. A minimum cumulative GPA of 2.5 must be maintained in order to remain admitted to COBE.

## Degree Requirements

The finance curriculum has major emphases in the three areas of finance: corporate finance, investment and portfolio management, and financial institutions. Our courses prepare students for financial decision making using accounting and market information within a framework of economic theory. A major in finance prepares students to deal with a wide range of financial situations, including those that concern businesses, individuals, and government.

| Finance<br>Bachelor of Business Administration | |
|---|---|
| *Course Number and Title* | *Credits* |
| Foundational Studies Program requirements indicated in **bold**. See page 50 for details and lists of approved courses. | |
| **ENGL 101** Introduction to College Writing | 3 |
| **ENGL 102** Intro to College Writing and Research | 3 |
| **UF 100** Intellectual Foundations | 3 |
| **UF 200** Civic and Ethical Foundations | 3 |
| **DLM** MATH 160 Survey of Calculus or MATH 170 Calculus I | 4 |
| **DLN** Natural, Physical, & Applied Sciences course with lab | 4 |
| **DLN** Natural, Physical, and Applied Sciences course | 3-4 |
| **DLV** Visual and Performing Arts | 3 |
| **DLL** Literature and Humanities | 3-4 |
| **DLS** COMM 101 Fundamentals of Communication | 3 |
| **DLS** ECON 201 Principles of Macroeconomics | 3 |
| ACCT 205 Introduction to Financial Accounting | 3 |
| ACCT 206 Introduction to Managerial Accounting | 3 |
| ACCT 300 Financial Reporting and Analysis | 3 |
| **CID** BUSCOM 201 Business Communication | 3 |
| BUSSTAT 207-208 Statistical Techniques for Decision Making I & II | 6 |
| ECON 202 Principles of Microeconomics | 3 |
| ECON 303 Intermediate Microeconomics | 3 |
| FINAN 303 Principles of Finance | 3 |
| FINAN 411 Capital Budgeting and Planning | 3 |
| FINAN 420 Management of Financial Institutions | 3 |
| FINAN 440 Financial Modeling | 3 |
| FINAN 450 Investment Management | 3 |
| FINAN 451 Frontiers in Financial Markets | 3 |
| GENBUS 101 Business for the New Generation | 3 |
| GENBUS 202 The Legal Environment of Business | 3 |
| **FF** GENBUS 450 Business Policies | 3 |
| *Continued* | |

| *Finance continued* | |
|---|---|
| Successful completion of the COBE Computer Placement Exam for: Word Processing and Spreadsheets, or<br>ITM 104 Operating Systems & Word Processing Topics and<br>ITM 105 Spreadsheet Topics | 0-2 |
| ITM 310 Business Intelligence | 3 |
| MGMT 301 Leadership Skills | 3 |
| MKTG 301 Principles of Marketing | 3 |
| SCM 345 Principles of Operations Management | 3 |
| Major elective chosen from upper-division finance, accounting, economics, or supply chain management. | 6 |
| Electives to total 120 credits | 12-16 |
| *Total* | 120 |

Students pursuing a degree from the College of Business and Economics may earn a minor in finance by satisfying the requirements listed below (in addition to the requirements of their major).

| Finance Minor | |
|---|---|
| *Course Number and Title* | *Credits* |
| FINAN 303* Principles of Finance | 3 |
| FINAN 411* Capital Budgeting and Planning | 3 |
| FINAN 450* Investment Management | 3 |
| Any three of the following:<br>FINAN 420* Management of Financial Institutions<br>FINAN 430* International Finance<br>FINAN 440* Financial Modeling<br>FINAN 451* Frontiers in Financial Markets<br>FINAN 470* Real Estate Finance and Investments | 9 |
| *Total* | 18 |
| *Requires admission to College of Business and Economics. | |

The marketing curriculum gives students a comprehensive background in marketing and allows them the flexibility to adapt their class choices to individual career goals. Course work stresses practical applications of marketing concepts through applied projects with the local business community. The program prepares students for a variety of careers including advertising, marketing research, personal selling, and Internet marketing.

| Marketing<br>Bachelor of Business Administration | |
|---|---|
| *Course Number and Title* | *Credits* |
| Foundational Studies Program requirements indicated in **bold**. See page 50 for details and lists of approved courses. | |
| **ENGL 101** Introduction to College Writing | 3 |
| **ENGL 102** Intro to College Writing and Research | 3 |
| **UF 100** Intellectual Foundations | 3 |
| **UF 200** Civic and Ethical Foundations | 3 |
| **DLM** MATH 160 Survey of Calculus or MATH 170 Calculus I | 4 |
| **DLN** Natural, Physical, & Applied Sciences course with lab | 4 |
| **DLN** Natural, Physical, and Applied Sciences course | 3-4 |
| **DLV** Visual and Performing Arts | 3 |
| **DLL** Literature and Humanities | 3-4 |
| **DLS** COMM 101 Fundamentals of Communication | 3 |
| **DLS** ECON 201 Principles of Macroeconomics | 3 |
| ACCT 205 Introduction to Financial Accounting | 3 |
| ACCT 206 Introduction to Managerial Accounting | 3 |
| *Continued* | |

| *Marketing continued* | |
|---|---|
| **CID** BUSCOM 201 Business Communication | 3 |
| BUSSTAT 207-208 Statistical Techniques for Decision Making I & II | 6 |
| ECON 202 Principles of Microeconomics | 3 |
| ECON 303 Intermediate Microeconomics | 3 |
| FINAN 303 Principles of Finance | 3 |
| GENBUS 101 Business for the New Generation | 3 |
| GENBUS 202 The Legal Environment of Business | 3 |
| **FF** GENBUS 450 Business Policies | 3 |
| Successful completion of the COBE Computer Placement Exam for: Word Processing and Spreadsheets, or<br>ITM 104 Operating Systems & Word Processing Topics and<br>ITM 105 Spreadsheet Topics | 0-2 |
| ITM 310 Business Intelligence | 3 |
| MGMT 301 Leadership Skills | 3 |
| MKTG 301 Principles of Marketing | 3 |
| MKTG 307 Customer Behavior | 3 |
| MKTG 315 Marketing Research | 3 |
| MKTG 321 Professional Selling | 3 |
| MKTG 425 Marketing Planning Applications | 3 |
| PSYC 101 General Psychology | 3 |
| SCM 345 Principles of Operations Management | 3 |
| Upper-division Marketing electives with 6 credits chosen from MKTG 407, MKTG 420, MKTG 421, MKTG 430, and MKTG 460 and 6 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. | 12 |
| Electives to total 120 credits | 9-13 |
| *Total* | 120 |

Business majors may earn a minor in marketing by satisfying the requirements listed below (in addition to the requirements of their major).

Non-business majors interested in pursuing a marketing minor in the College of Business and Economics (COBE) must be admitted to the college in addition to satisfying the marketing minor requirements listed below. Please see the COBE advising website: http://cobe.boisestate.edu/studentadvising/ to obtain specific information about upper-division admission requirements, the application process and application deadlines.

Admission to COBE is competitive and based on various academic criteria such as overall GPA, performance in gateway courses, and other business and economics courses. Meeting the criteria does not guarantee admission.

| Marketing Minor | |
|---|---|
| *Course Number and Title* | *Credits* |
| ACCT 205 Introduction to Financial Accounting | 3 |
| BUSCOM 201 Business Communication or<br>ENGL 202 Technical Communication | 3 |
| ECON 202 Principles of Microeconomics | 3 |
| MKTG 301 Principles of Marketing | 3 |
| MKTG 307* Customer Behavior | 3 |
| MKTG 321* Professional Selling | 3 |
| Upper-division marketing courses* | 6 |
| *Total* | 24 |
| *Requires admission to College of Business and Economics. | |

## Course Offerings

**See page 63 for a definition of the course-numbering system.**

**BUSCOM – Business Communication**

**Lower Division**

**BUSCOM 201 BUSINESS COMMUNICATION (3-0-3)(F,S,SU)(CID).** Effectiveness and correctness of writing and psychology of letter and report writing stressed through the preparation of a variety of business correspondence. Specific writing problems used in conjunction with various cases with realistic opportunities to develop writing skills following a designated style. Oral presentation skills included. PREREQ: ENGL 102 (or ENGL 112).

**FINAN – Finance**

**Lower Division**

**FINAN 101 ORIENTATION TO BUSINESS AND FINANCE (1-0-1)(F).** Introduction to the world of business and finance. Designed to survey the functional areas within business, acquaint student with career alternatives, and provide background information pertaining to the policies and programs within the College of Business and Economics.

**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).** An introductory course focusing on financial management for business concerns. Topics include: allocation of resources for investment in short- and long-term assets, decisions with respect to debt and equity financing, and dividend policy. Lectures and reading are blended with problems and cases for class discussion. PREREQ: Admission to COBE, ACCT 206, ECON 201, ECON 202 and BUSSTAT 207.

**FINAN 410 WORKING CAPITAL MANAGEMENT (3-0-3)(Offered Intermittently).** Considers the short-term financial management of a firm. Financial analysis of past, present, and future operations is emphasized. Cash flow analysis, management of current accounts, and cost benefit analysis are stressed. Case discussions provide a merging of theoretical concepts and practical application. PREREQ: Admission to COBE, FINAN 303.

**FINAN 411 CAPITAL BUDGETING AND PLANNING (3-0-3)(F).** Acquisition and allocation of long-term sources of funds are the subject of this course. Emphasis is placed on fund raising and the problems associated with measurement and structural influences on the firm's cost of capital. Cash-flow analysis and alternative investment decision rules are examined. Cases are used for classroom discussion as a link between theory and practice. PREREQ: Admission to COBE, BUSSTAT 208 and FINAN 303.

**FINAN 420 MANAGEMENT OF FINANCIAL INSTITUTIONS (3-0-3)(F).** The interaction between financial institutions and financial markets are examined and their roles in the economy are discussed. Emphasis is placed on the changes taking place within the financial community, the effects on financial institutions in general, and commercial banking in particular. PREREQ: Admission to COBE, FINAN 303.

**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.

**FINAN 450 INVESTMENT MANAGEMENT (3-0-3)(F).** Examines the U.S. securities markets from both a theoretical and a practical viewpoint. Topics include 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. Class format incorporates lecture and readings and may include guest lecturers. PREREQ: Admission to COBE, BUSSTAT 208 and FINAN 303.

**FINAN 451 FRONTIERS IN FINANCIAL MARKETS (3-0-3)(S).** Focuses on both recent and past innovations in the securities markets. Futures contracts and options and the theory of hedging, using both agricultural and financial futures contracts, options writing, and index options are stressed. A combination of theory and practice will be sought relying on lecture, text material and journal and trade articles, and may include guest speakers. PREREQ: Admission to COBE, BUSSTAT 208 and FINAN 303.

**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.

**FINAN 498, FINAN 499 SENIOR SEMINAR IN FINANCE (3-0-3)(F/S).** Designed to provide an opportunity for study of a particular area of finance at an advanced level. Builds background developed in the regularly scheduled finance courses. The topics offered will be selected on the basis of their timely interest to finance students and a particular expertise of the instructor. PREREQ: Admission to COBE, FINAN 303 and PERM/INST.

**MKTG – Marketing**

**Upper Division**

**MKTG 301 PRINCIPLES OF MARKETING (3-0-3)(F,S).** Describes the methods of identifying and interpreting wants and needs of people; selecting the particular wants and needs the organization will satisfy; and determining the product, price, promotion, and place in a proper mix. PREREQ: BUSCOM 201 for business majors or ENGL 202 for non-business majors or B.S. Business and Economic Analytics major, ENGL 102 and ITM 104 and ITM 105 or successful completion of the COBE Computer Placement Exam for ITM 104 and ITM 105.

**MKTG 307 CUSTOMER BEHAVIOR (3-0-3)(F,S).** Concepts in and analysis of consumer and group satisfaction attributes, methods of measurement, and processes to guide decisions using this knowledge. PREREQ: Admission to COBE or Music/Business major, MKTG 301.

**MKTG 315 MARKETING RESEARCH (3-0-3)(F,S).** Theory and the use of research for marketing decisions. Emphasizes planning, designing, and implementing research activities. It is strongly recommended that students enroll in this course immediately following completion of BUSSTAT 208. PREREQ: Admission to COBE or B.S. Business and Economic Analytics major, BUSSTAT 208 or equivalent and MKTG 301.

**MKTG 321 PROFESSIONAL SELLING (3-0-3)(F,S).** A basic selling course providing an overview of professional selling techniques and careers in sales. Emphasis is on identifying potential customers and building customer-supplier long-term relationships. Applicable to both consumer and organizational markets. PREREQ: Admission to COBE, junior standing.

**MKTG 401 ADVERTISING AGENCY MANAGEMENT I (3-0-3)(F).** Functions as a full-service advertising agency to develop a complete promotion and advertising campaign. Students develop a marketing and advertising plan complete with advertising and media objectives and strategies, comprehensive ad designs, and sales promotion plans. PREREQ: Admission to COBE, Junior standing, PERM/INST, and formal application through the department.

**MKTG 402 ADVERTISING AGENCY MANAGEMENT II (3-0-3)(S).** Functions as a full-service advertising agency in the latter stages of developing a complete promotion and advertising campaign for a real client. Includes a marketing and advertising plan with advertising and media objectives, strategies, comprehensive ad designs, and sales promotion plans for their client. PREREQ: Admission to COBE, MKTG 401, PERM/INST, and formal application through the department.

**MKTG 407 MARKETING COMMUNICATION (3-0-3)(F/S).** Comprehensive approach to creating and implementing marketing communication activities, including advertising, sales promotions, event sponsorships, direct marketing, public relations, and business/store image. Complete a course project involving development of a marketing communication plan. Relevant social, cultural, and ethical issues are emphasized. PREREQ: Admission to COBE or Certificate in Technical Communication, MKTG 301.

**MKTG 420 MARKETING MANAGEMENT (3-0-3)(F/S).** Marketing principles and theories integrated with analytical and behavioral decision processes. Emphasis on problem and opportunity recognition, marketing strategies, and planning and administering marketing programs. Consumer, industrial, institutional, and international markets are considered. PREREQ: Admission to COBE, MKTG 301 and satisfactory completion of the College of Business and Economics computer competency exam.

**MKTG 421 SALES ADMINISTRATION (3-0-3)(S).** Management of sales organizations with emphasis on selection, motivation, and supervision of salespeople. Ethics, social responsibilities, and coordination with other functional areas also considered. PREREQ: Admission to COBE, MKTG 301, MKTG 321.

**MKTG 422 NEW PRODUCT DEVELOPMENT (3-0-3)(Offered Intermittently).** Basic strategies and processes used in the introduction of new products (goods and services). Includes concept generation and evaluation for production and market value. Other topics include perceptual mapping, positioning, integrated design, quality functional deployment, and test marketing. Guest speakers will discuss current applications. PREREQ: Admission to COBE, MKTG 301.

**MKTG 425 MARKETING PLANNING APPLICATIONS (3-0-3)(F,S).** Real world study of marketing problems. Emphasis on live marketing problem definition, situational analysis, identification and evaluation of alternative solutions, decision criteria, presentation of a "best" solution, and programmatic design to accomplish desired objectives. PREREQ: Admission to COBE, Marketing major, senior standing, and MKTG 301.

**MKTG 430 INTERNATIONAL MARKETING (3-0-3)(F,S).** An analysis of the creation, planning, and implementation of marketing strategies that cross national and cultural borders. PREREQ: Admission to COBE, MKTG 301.

**MKTG 440 INDUSTRIAL MARKETING (3-0-3)(Offered Intermittently).** An analysis of activities related to the marketing of products and services to organizations including government agencies, profit and nonprofit institutions, and commercial enterprises. PREREQ: Admission to COBE, MKTG 301.

**MKTG 460 INTERNET MARKETING STRATEGY (3-0-3)(S).** How end consumers and business customers buy products on the Internet, how to enhance customer relationships through use of the Internet, and how the Internet fits within traditional marketing tactics such as advertising and pricing. PREREQ: Admission to COBE, MKTG 301.

**MKTG 493 INTERNSHIP (number of credits varies)(F,S,SU).** Internship credits are earned in supervised fieldwork specifically related to a student's major. No more than 3 credits of internship may be used to meet the upper-division marketing elective requirement. PREREQ: Admission to COBE, MKTG 301 and PERM/INST.

**MKTG 498 SEMINAR IN CONTEMPORARY TOPICS IN MARKETING (Variable Credit)(Offered Intermittently).** Provides an opportunity for the study of topics of current interest in marketing. The topics will be selected based upon the interests of students and expertise of faculty. PREREQ: Admission to COBE, MKTG 301.

# Department of Materials Science and Engineering

*College of Engineering*

Engineering Building. Room 338 Phone: (208) 426-5600
http://coen.boisestate.edu/mse/ Fax: (208) 426-4466

*Chair and Professor:* Peter Müllner. *Professors:* Butt, Callahan, Knowlton, Moll. *Associate Professors:* Frary, Hughes, Ubic. *Assistant Professors:* Estrada, Graugnard, Hurley, Jankowski, Lee, Li, Simmonds, Wharry, Xiong. *Clinical Assistant Professor:* Ackler. *Distinguished Research Fellow:* Yurke. *Research Associate Professor:* Wu. *Lecturer:* Watson.

## Degrees Offered

- Bachelor of Science in Materials Science and Engineering
  - Secondary Education Emphasis
- Minor in Materials Science and Engineering

## Department Statement

A fundamental understanding of how properties, structure, processing and performance of materials are interrelated is an essential aspect of an engineering education. Understanding how these materials properties can be altered or how the properties change in different applications and environments is a critical focus for all engineering disciplines. The Materials Science and Engineering program focuses on the fundamental aspects of the technical classes of materials including metals, ceramics, polymers, electronic materials, biomaterials, nanomaterials, and composites. Laboratory emphasis is placed on the measurement and characterization of these materials systems and providing hands-on experience with various process operations typical in the materials fabrication industry.

The study of materials properties has held fascination with scientists for many years. However, it is in the application of materials to product design and manufacturing where economic growth is realized. In today's technology driven environment, the engineer and scientist work to modify materials to optimize performance, reduce cost, and to develop materials with a greater range of capabilities.

The B.S. in Materials Science is accredited by the Commission of ABET, 111 Market Place, Suite 1050, Baltimore, MD 21202-4012, (410) 347-7700.

The B.S. in Materials Science and 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 http://idoteach.boisestate.edu. 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 entry-level 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 Bachelor of Science | |
|---|---|
| *Course Number and Title* | *Credits* |
| Foundational Studies Program requirements indicated in **bold**. See page 50 for details and lists of approved courses. | |
| **ENGL 101** Introduction to College Writing | 3 |
| **ENGL 102** Intro to College Writing and Research | 3 |
| **UF 100** Intellectual Foundations | 3 |
| **UF 200** Civic and Ethical Foundations | 3 |
| **DLM** MATH 170 Calculus I | 4 |
| **DLN** CHEM 111, 111L General Chemistry I & Lab | 4 |
| **DLN** PHYS 211, 211L Physics I with Calculus & Lab | 5 |
| **DLV** Visual and Performing Arts | 3 |
| **DLL** Literature and Humanities or **DLL** STEM-ED 220 Perspectives on Science and Mathematics (Secondary Education Emphasis) | 3-4 |
| **DLS** Social Sciences course in a first field or **DLS** ED-CIFS 201 Foundations of Education (Secondary Education Emphasis) | 3 |
| **DLS** Social Sciences course in a second field or **DLS** STEM-ED 210 Knowing and Learning in Mathematics and Science (Secondary Education Emphasis) | 3 |
| CHEM 112, 112L General Chemistry II with Lab | 4 |
| Computer science elective* | 2-4 |
| ENGR 120 Introduction to Engineering or ENGR 130 Introduction to Engineering Applications | 3-4 |
| ENGR 210 Engineering Statics | 3 |
| ENGR 240 Electrical and Electronic Circuits or ECE 210 Intro to Electric Circuits | 3 |
| ENGR 245, 245L Intro to Materials Science & Engineering & Lab | 4 |
| MATH 175 Calculus II | 4 |
| MATH 275 Multivariable and Vector Calculus | 4 |
| MATH 333 Differential Equations with Matrix Theory | 4 |
| MATH 360 Engineering Statistics | 3 |
| **CID** MSE 215 Materials Processing | 3 |
| MSE 305 Structure of Materials | 3 |
| MSE 308 Thermodynamics of Materials | 3 |
| MSE 310 Electrical Properties of Materials | 3 |
| MSE 312 Mechanical Behavior of Materials | 3 |
| MSE 318 Phase Transformations and Kinetics | 3 |
| MSE 380 Materials Properties Laboratory | 3 |
| MSE 381 Material Analysis Laboratory | 3 |
| MSE 421 Structural Characterization | 3 |
| MSE 480 Senior Project I | 3 |
| **FF** MSE 482 Senior Project II | 3 |
| MSE 498 Materials Science Seminar | 1 |
| PHYS 212, 212L Physics II with Calculus & Lab | 5 |
| PHYS 309, 309L Introductory Quantum Physics & Lab | 4 |
| Materials Science and Engineering electives* | 3 |
| *Continued* | |

| *Materials Science and Engineering continued* | |
|---|---|
| In addition, complete the following coursework to graduate with B.S. in Materials Science and Engineering (without an emphasis) or complete the courses listed under the Secondary Education Emphasis below to graduate with a B.S. in Materials Science and Engineering with an emphasis in Secondary Education. | |
| Physics electives* | 3 |
| Technical electives* | 3 |
| Upper-division electives to total 40 credits | 1 |
| *Total* | 124-128 |
| **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 |
| *Total* | 134-137 |
| This emphasis also needs to complete ED-CIFS 201, STEM-ED 220 and STEM-ED 350. | |
| *Electives must be approved by the student's advisor. | |

| Materials Science and Engineering Minor | |
|---|---|
| *Course Number and Title* | *Credits* |
| ENGR 245, 245L Intro to Materials Science & Engineering & Lab | 4 |
| MSE 305 Structure of Materials | 3 |
| MSE 308 Thermodynamics of Materials or<br>MSE 310 Electrical Properties of Materials | 3 |
| Courses chosen from the following list:<br>CE 340 Engineering Properties of Construction Materials<br>CE 341 Construction Materials Lab<br>CHEM 321, 322 Physical Chemistry I & II Lecture<br>CHEM 401 Advanced Inorganic Chemistry<br>ECE 320 Semiconductor Devices<br>ECE 440, ECE 440L Intro Integrated Circuit Process & Lab<br>ECE 441 Advanced Silicon Technology<br>GEOS 300 Earth Materials<br>ME 444 Corrosion Engineering<br>ME 454 Composites<br>MSE 215 Materials Processing<br>MSE 305 Structure of Materials<br>MSE 308 Thermodynamics of Materials<br>MSE 310 Electrical Properties of Materials<br>MSE 312 Mechanical Behavior of Materials<br>MSE 318 Phase Transformations and Kinetics<br>MSE 404, MSE 404L Materials Analysis<br>MSE 421 Structural Characterization<br>MSE 422 Advanced Transmission Electron Microscopy<br>MSE 428 Interfaces and Dislocation Behavior<br>MSE 461 Microelectronic Packaging Materials<br>MSE 477 Biomaterials<br>MSE 488 Environmental Degradation of Materials<br>MSE 498 Materials Science and Engineering Seminar<br>PHYS 309, 309L Introductory Quantum Physics & Lab<br>PHYS 415 Solid State Physics<br>PHYS 423 Physical Methods of Materials Characterization | 9 |
| *Total* | 19 |

## Course Offerings

**See page 63 for a definition of the course-numbering system.**

**MSE – Materials Science and Engineering**

**Lower Division**

**MSE 215 MATERIALS PROCESSING (3-0-3)(S)(CID).** Survey of manufacturing and processing techniques for technological materials including biomaterials, ceramics, metals, nanomaterials, and polymers. PREREQ: ENGL 102 (or ENGL 112), ENGR 120 or ENGR 130, and ENGR 245.

**Upper Division**

**MSE 305 STRUCTURE OF MATERIALS (3-0-3)(F).** Unit cells and lattices, 2D symmetry, 3D symmetry, and crystal structures. Tensor properties. Bonding potential and relationship to crystal structure. Point defects, diffusion, line defects, surface structure, interfaces and microstructure. PREREQ: ENGR 245 and MATH 333.

**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: ENGR 245, MATH 333 and CHEM 112 or ENGR 320.

**MSE 310 (ECE 340) ELECTRICAL PROPERTIES OF MATERIALS (3-0-3)(F).** 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: ENGR 245, MATH 333 and PHYS 309 or ECE 212.

**MSE 312 MECHANICAL BEHAVIOR OF MATERIALS (3-0-3)(S).** 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: ENGR 210 and ENGR 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 305 and MSE 308.

**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: ENGR 245L. PRE/COREQ: MSE 305, 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. PRE/COREQ: MSE 215, MSE 312, MSE 421 and MATH 360.

**MSE 404 MATERIALS ANALYSIS (3-0-3)(F/S).** Physical and chemical characterization of the bulk and physical properties of materials. Diffraction, imaging and spectroscopy using optical, electron, and x-ray methods. PREREQ: MSE 380.

**MSE 404L MATERIALS ANALYSIS LAB (0-3-1)(F).** Use of characterization techniques in materials engineering analysis including microscopy, spectroscopy and diffraction techniques. PRE/COREQ: MSE 305, MSE 380, MSE 404 or PHYS 423.

**MSE 419 INTERFACIAL KINETICS AND TRANSPORT PROCESSES (3-0-3)(S)(Even years).** 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 421 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 305.

**MSE 422 ADVANCED TRANSMISSION ELECTRON MICROSCOPY (1-3-2)(F).** In-depth understanding of the transmission electron microscope (TEM), electron diffraction, imaging techniques, analytical techniques, and high-resolution electron microscopy (HREM). Students are required to have an approved project that utilizes the TEM. PREREQ: MSE 421 and PERM/INST.

**MSE 423 INTRODUCTION TO X-RAY DIFFRACTION (0-3-1)(S).** 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 305 and PERM/INST.

**MSE 428 INTERFACES AND DISLOCATION BEHAVIOR (3-0-3)(S)(Even years).** 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 305.

**MSE 461 MICROELECTRONIC PACKAGING MATERIALS (3-0-3)(F/S).** Engineering analysis of electronic packaging materials and their effect on electrical design, assembly, reliability, and thermal management. Selection process for packaging materials, manufacturing and assembly, single and multi-chip packaging. PREREQ: ENGR 245.

**MSE 464 COMPUTATIONAL MATERIALS SCIENCE (3-0-3)(F/S).** 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 305, MSE 308, and PHYS 309 or PERM/INST.

**MSE 465 APPLICATIONS OF MATHEMATICA FOR MATERIALS SCIENCE AND ENGINEERING (1-0-1)(F).** The basics of using mathematical software to solve problems in Materials Science and Engineering. PREREQ: ENGR 245 and MATH 175.

**MSE 471 PHYSICAL CERAMICS AND GLASSES (3-0-3)(F/S).** Structure property and processing-property relations in crystalline and amorphous ceramic materials at the atomistic and microscopic levels. PREREQ: ENGR 245 or PERM/INST.

**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 ENGR 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 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 310. PREREQ: MSE 312, MSE 318, MSE 381.

**MSE 482 SENIOR 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. (Pass/Fail). PREREQ: ENGR 245.

# Department of Mathematics

*College of Arts and Sciences*

Mathematics Building, Room 235 Phone: (208) 426-1172
http://math.boisestate.edu/ Fax: (208) 426-1356
E-mail: office@math.boisestate.edu

*Chair and Associate Professor:* Leming Qu. *Professors:* Holmes, Mead, Scheepers, Zubik-Kowal. *Associate Professors:* Brill, Babinkostova, Bullock, Caicedo, Cavey, Harlander, Kaiser, Kinzel, Ko, Lee, Smith, Teitler, Wright. *Assistant Professors:* Calhoun, Champion, Coskey, Mukherjee, Wang.

## 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 DLN and DLS requirements

Students pursuing the B.S. 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* |
| Foundational Studies Program requirements indicated in **bold**. See page 50 for details and lists of approved courses. | |
| **ENGL 101** Introduction to College Writing | 3 |
| **ENGL 102** Intro to College Writing and Research | 3 |
| **UF 100** Intellectual Foundations | 3 |
| **UF 200** Civic and Ethical Foundations | 3 |
| **DLM** MATH 170 Calculus I | 4 |
| **DLN** Natural, Physical, & Applied Sciences course with lab | 4 |
| **DLN** Natural, Physical, and Applied Sciences course | 3-4 |
| **DLV** Visual and Performing Arts | 3 |
| *Continued* | |

| *Applied Mathematics continued* | |
|---|---|
| **DLL** Literature and Humanities | 3-4 |
| **DLS** Social Sciences course in a first field | 3 |
| **DLS** Social Sciences course in a second field | 3 |
| One of the following:<br>CS 115 Introduction to C<br>CS 117 C++ for Engineers<br>CS 119 Introduction to JAVA<br>CS 121 Computer Science I | 2-4 |
| One of the following sequences*:<br>BIOL 191-192<br>CHEM 111, 111L-112, 112L<br>CS 221 and CS 321<br>ECON 201 and ECON 202<br>ENGR 210 and ENGR 220<br>GEOS 100 and GEOS 200 or GEOS 212 or GEOPH 201<br>PHYS 211, 211L-212, 212L<br>(*Choice of sequence may significantly impact **DLN**, **DLS**, and CS requirements. Contact an advisor or consult the department webpage.) | 6-10 |
| MATH 175 Calculus II | 4 |
| MATH 187 Discrete and Foundational Mathematics I | 3 |
| MATH 275 Multivariable and Vector Calculus | 4 |
| **CID** MATH 287 Communication in the Mathematical Sciences | 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 Analysis I | 3 |
| MATH 488 Senior Outcome Assessment | 0 |
| Two of the following, with at least one 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 Public Key Cryptology<br>MATH 409 Symmetric Key Cryptology<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 | 6-7 |
| In addition, complete either the following coursework to graduate with a B.S. in Applied Mathematics (without an emphasis) or complete the courses listed under the Statistics emphasis below to graduate with a B.S. in Applied Mathematics with an emphasis in Statistics. | |
| Upper-division electives to total 40 credits | 13-14 |
| Electives to total 120 credits | 15-28 |
| *Total* | 120 |
| **Statistics Emphasis** | |
| 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 B.S. in Applied Mathematics major. | |
| MATH 462 Probability and Statistics II | 3 |
| *Continued* | |

| *Applied Mathematics continued* | |
|---|---|
| MATH 471 Data Analysis | 3 |
| MATH 472 Computational Statistics | 3 |
| Upper-division electives to total 40 credits | 4-5 |
| Electives to total 120 credits | 15-28 |
| *Total* | 120 |

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 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 http://idoteach.boisestate.edu. Students must meet and maintain all knowledge, skill, and disposition requirements to remain in the program.

## Mathematics
## Bachelor of Science

| *Course Number and Title* | *Credits* |
|---|---|
| Foundational Studies Program requirements indicated in **bold**. See page 50 for details and lists of approved courses. | |
| **ENGL 101** Introduction to College Writing | 3 |
| **ENGL 102** Intro to College Writing and Research | 3 |
| **UF 100** Intellectual Foundations | 3 |
| **UF 200** Civic and Ethical Foundations | 3 |
| **DLM** MATH 170 Calculus I | 4 |
| Choose from the following:<br>**DLN** BIOL 191 General Biology I<br>**DLN** CHEM 111, 111L General Chemistry I & Lab<br>**DLN** PHYS 211, 211L* Physics I with Calculus & Lab | 4-5 |
| **DLN** Natural, Physical, and Applied Sciences course | 3-4 |
| **DLV** Visual and Performing Arts | 3 |
| **DLL** Literature and Humanities | 3-4 |
| **DLS** ED-CIFS 201 Foundations of Education (Secondary Education Emphasis) or<br>**DLS** Social Sciences course in a first field | 3 |
| **DLS** Social Sciences course in a second field | 3 |
| One of the following:<br>CS 115 Introduction to C<br>CS 117 C++ for Engineers<br>CS 119 Introduction to JAVA<br>CS 121 Computer Science I | 2-4 |
| One of the following*:<br>BIOL 192 General Biology II<br>CHEM 112, 112L General Chemistry II with Lab<br>PHYS 212, 212L Physics II with Calculus & Lab<br>(*Choice may significantly impact **DLN** requirements. Contact an advisor or consult the department webpage.) | 4-5 |
| MATH 175 Calculus II | 4 |
| MATH 187 Discrete and Foundational Mathematics I | 3 |
| MATH 275 Multivariable and Vector Calculus | 4 |
| **CID** MATH 287 Communication in the Mathematical Sciences | 3 |
| *Continued* | |

| *Mathematics continued* | |
|---|---|
| MATH 305 Intro to Abstract Algebra & Number Theory | 3 |
| MATH 314 Foundations of Analysis | 3 |
| MATH 361 Probability and Statistics I | 3 |
| **FF** MATH 401 Senior Thesis in the Mathematical Sciences | 1 |
| MATH 488 Senior Outcome Assessment | 0 |
| In addition, complete either the following coursework to graduate with a B.S. in Mathematics (without an emphasis) or complete the courses listed under the Secondary Education emphasis below to graduate with a B.S. in Mathematics with an emphasis in Secondary Education. | |
| MATH 301 Introduction to Linear Algebra or<br>MATH 333 Differential Equations with Matrix Theory | 3-4 |
| Three of the following, with at least two at the 400-level, including at least one of MATH 403, MATH 405 or MATH 406:<br>MATH 307 Foundations of Cryptology<br>MATH 308 Introduction to Algebraic Cryptology<br>MATH 311 Foundations of Geometry<br>MATH 387 Discrete and Foundational Mathematics II<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 Public Key Cryptology<br>MATH 409 Symmetric Key Cryptology<br>MATH 411 Introduction to Topology<br>MATH 414 Advanced Calculus<br>MATH 426 Complex Variables<br>MATH 433 Ordinary Differential Equations<br>MATH 462 Probability and Statistics II | 9-11 |
| Upper-division electives to total 40 credits | 15-18 |
| Electives to total 120 credits | 16-28 |
| *Total* | 120 |
| **Secondary Education Emphasis** | |
| MATH 211 Geometry for the Classroom | 3 |
| MATH 261 Statistics for the Classroom | 3 |
| MATH 301 Introduction to Linear Algebra | 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 and Learning in Mathematics & Science | 3 |
| STEM-ED 220 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 credits | 3 |
| Electives to total 120 credits | 5-11 |
| *Total* | 120 |
| *PHYS 212,212L is an approved **DLN** course. When taking the PHYS 211-212 sequence both the **DLN** requirement and Science Requirement above are satisfied with just two courses for a total of 10 credits. Otherwise the combined requirement is three courses for 11-14 credits. | |

| Applied Mathematics Minor | |
|---|---|
| *Course Number and Title* | *Credits* |
| MATH 170 Calculus I | 4 |
| MATH 175 Calculus II | 4 |
| MATH 275 Multivariable and Vector Calculus | 4 |
| MATH 365 Introduction to Computational Mathematics | 3 |
| Upper-division mathematics chosen from the following:<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 Analysis I | 6-7 |
| *Total* | 21-22 |

| Mathematics Minor | |
|---|---|
| *Course Number and Title* | *Credits* |
| MATH 170 Calculus I | 4 |
| MATH 175 Calculus II | 4 |
| MATH 187 Discrete and Foundational Mathematics I or<br>MATH 189 Discrete Mathematics | 3-4 |
| MATH 275 Multivariable and Vector Calculus | 4 |
| Upper-division mathematics (MATH prefix except for MATH 491 or higher), including at least two 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 Discrete and Foundational Mathematics II<br>MATH 403 Linear Algebra | 9-11 |
| *Total* | 24-27 |

| Mathematics Teaching Endorsement Minor | |
|---|---|
| *Course Number and Title* | *Credits* |
| MATH 170 Calculus I | 4 |
| MATH 175 Calculus II | 4 |
| MATH 187 Discrete and Foundational Mathematics I | 3 |
| MATH 211 Geometry for the Classroom | 3 |
| MATH 261 Statistics for the Classroom | 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* | 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

**See page 63 for a definition of the course-numbering system.**

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.

**MATH – Mathematics**

**Lower Division**

**MATH 015 PRE-ALGEBRA (3-0-0)(F,S).** Fundamental algebraic skills needed for MATH 25. Review of arithmetic (fractions, negative numbers, and percents), an introduction to graphing, and an introduction to variables, simplifying algebraic expressions, and solving linear equations.

**MATH 025 ELEMENTARY ALGEBRA (3-0-0)(F,S,SU).** Brief review of arithmetic operations and their properties. Positive integer exponents, variables, algebraic expressions, solution of linear equations, definition of absolute value. Expansion of product of two binomials, factorization of quadratics, solution of quadratic equations by factoring. Two-dimensional Cartesian coordinate systems, slope, equations of lines, solution of 2-by-2 linear systems. Simple "word problems."

**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 DLM course, and cannot be taken for credit after any MATH course numbered MATH 143 or higher. PREREQ: MATH 25 or satisfactory placement score.

**MATH 123 QUANTITATIVE REASONING (3-0-3)(F,S,SU)(DLM).** 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 25 or satisfactory placement score.

**MATH 143 COLLEGE ALGEBRA (3-0-3)(F,S,SU)(DLM).** Emphasis on the concept of functions as mathematical entities; domain, range, algebraic operations, composition, inverses, graphing. Polynomial functions, division of 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. Credit cannot be granted for both MATH 143 and MATH 147. PREREQ: MATH 108 or satisfactory placement score.

**MATH 144 ANALYTIC TRIGONOMETRY (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, polar representations of complex numbers. Credit cannot be granted for both MATH 144 and MATH 147. COREQ: MATH 143 or satisfactory placement score.

**MATH 147 PRECALCULUS (5-0-5)(F,S,SU).** A single course equivalent to College Algebra (MATH 143) plus Analytic Trigonometry (MATH 144). Credit cannot be granted for both MATH 143 and MATH 147, nor for both MATH 144 and MATH 147. PREREQ: MATH 108 or satisfactory placement score.

**MATH 157 STRUCTURE OF ARITHMETIC FOR TEACHERS (4-0-4)(F,S,SU).** Number systems from whole numbers through the reals: numeration, number operations, algorithms, and properties. Includes an integrated materials component which makes use of physical models and technology. PREREQ: MATH 108 or satisfactory placement score.

**MATH 160 SURVEY OF CALCULUS (4-0-4)(F,S,SU)(DLM).** 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 satisfactory placement score.

**MATH 170 CALCULUS I (4-0-4)(F,S,SU)(DLM).** Definitions of limit, derivative and integral. Computation of the derivative, including logarithmic,

exponential and trigonometric functions. Applications of the derivative, approximations, optimization, mean value theorem. Fundamental Theorem of Calculus, brief introduction to applications of the integral and to computations of antiderivatives. Intended for students in engineering, mathematics and the sciences. PREREQ: MATH 143 and MATH 144, or MATH 147, or satisfactory placement score.

**MATH 175 CALCULUS II (4-0-4)(F,S,SU).** A continuation of MATH 170. Applications of the integral, symbolic and numerical techniques of integration. Sequences and series, with an emphasis on power series and approximations, convergence and error bounds. Separable differential equations. Parametric curves in the plane and polar coordinates. Includes use of mathematical software such as Maple or Mathematica. PREREQ: MATH 143, MATH 144 and MATH 170, or corresponding satisfactory placement score.

**MATH 187 DISCRETE AND FOUNDATIONAL MATHEMATICS I (3-0-3)(F,S,SU).** An introduction to the language and methods of reasoning used throughout mathematics. Topics include propositional and predicate logic, elementary set theory, proof techniques including mathematical induction,functions and relations, combinatorial enumeration, permutations and symmetry. PREREQ: MATH 143 or MATH 147 or 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. Intended for computer science majors. Credit cannot be granted for both MATH 187 and MATH 189. PREREQ: MATH 170.

**MATH 211 GEOMETRY FOR THE CLASSROOM (3-0-3)(F,S)(F,S,SU).** Activity-based treatment of geometry designed to extend preservice teachers' understanding of geometry and its connections to other areas of mathematics. Topics may include: constructions, conjectures and proofs, dynamic geometry technology, transformations. It is recommended that this course be taken prior to MATH 311. PREREQ: MATH 187.

**MATH 254 INTRODUCTION TO STATISTICS (3-0-3)(F,S,SU)(DLM).** 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 satisfactory placement score.

**MATH 257 GEOMETRY AND PROBABILITY FOR TEACHERS (4-0-4) (F,S)(DLM).** Probability, statistics, geometric concepts, principles, and measurement. Includes the use of physical materials and technology. PREREQ: MATH 157.

**MATH 261 STATISTICS FOR THE CLASSROOM (3-0-3)(S).** Activity-based treatment of statistics designed to extend preservice teachers' understanding of statistics and its connections to other areas of mathematics. Topics may include: simulations, hypothesis testing, dynamic statistical software and technology. It is recommended that this course be taken prior to MATH 361. PREREQ: MATH 147.

**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 COMMUNICATION IN THE MATHEMATICAL SCIENCES (3-0-3)(F,S)(CID).** Integrates mathematics content with the opportunity to develop proof writing and communication skills important in the mathematical sciences. Content is drawn from discrete and foundational math and elementary analysis. Introduction to and engagement with written and verbal communication practices characteristic to mathematical sciences. Introduction to and use of technologies that support communication in the mathematical sciences. PREREQ: ENGL 102 (or ENGL 112), MATH 187.

**MATH 291 PUTNAM PRACTICE I (1-0-1)(F,S).** 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 187 or MATH 189.

**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 187, or MATH 189.

**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 187 or MATH 189.

**MATH 311 FOUNDATIONS OF GEOMETRY (3-0-3)(S).** Euclidean, non-Euclidean, and projective geometries from an axiomatic point of view. PREREQ: MATH 175, and MATH 187 or MATH 189.

**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 175 and MATH 287.

**MATH 333 DIFFERENTIAL EQUATIONS WITH MATRIX THEORY (4-0-4).** 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 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. PREREQ: MATH 175.

**MATH 361 PROBABILITY AND STATISTICS I (3-0-3)(F,S).** 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. 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 175.

**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 175.

**MATH 387 DISCRETE AND FOUNDATIONAL MATHEMATICS II (4-0-4)(S)(Odd years).** A continuation of MATH 187, exploring more advanced topics in logic, set theory, and discrete mathematics. Proof techniques in predicate logic; diagonalization arguments in logic, set theory and computer science; ordered sets; mathematical methods in cryptography; advanced techniques of combinatorial enumeration; selected topics in graph theory. PREREQ: MATH 187 or 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: One of MATH 403, 405, 411, 414, 426, 433, 436, 456, 462, 465, 471 or 480.

**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)(S).** 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 187 or MATH 189, and one of MATH 301 or MATH 333.

**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 301 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 305.

**MATH 408 ADVANCED PUBLIC KEY CRYPTOLOGY (3-0-3)(F).** Galois Fields, Vector Spaces and Lattices. Group based and lattice based asymmetric cryptographic primitives. Security models for public key cryptosystems. Study of the security foundations of current public key cryptosystems. PREREQ: MATH 305 or MATH 307 or MATH 308. (13-089)

**MATH 409 SYMMETRIC KEY CRYPTOLOGY (3-0-3)(S).** Combinatorics, Galois Fields and Extensions, and Vector Spaces. One-way functions, Hash functions, and pseudo-random number generators. Data Encryption Standard, Rijndael and other symmetric key cryptosystems and their cryptanalysis. PREREQ: MATH 305 or MATH 307 or MATH 308. (13-089)

**MATH 411 INTRODUCTION TO TOPOLOGY (3-0-3)(F)(Even years).** Sets, metric and topological spaces, product and quotient topology, continuous mappings, connectedness and compactness, homeomorphisms, fundamental group, covering spaces. PREREQ: MATH 314.

**MATH 414 ADVANCED CALCULUS (4-0-4)(F).** Introduction to fundamental elements of analysis on Euclidean spaces including the basic differential and integral calculus. Topics include: infinite series, sequences and series of function, uniform convergences, theory of integration, implicit function theorem and applications. PREREQ: MATH 275, MATH 301, 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 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 464 MATHEMATICAL MODELING (3-0-3)(F).** Introduction to mathematical modeling through case studies. Deterministic and probabilistic models. Optimization. Examples will be drawn from the physical, biological, and social sciences. PREREQ: MATH 361 or PERM/INST.

**MATH 465 NUMERICAL ANALYSIS 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 301 or MATH 333.

**MATH 471 DATA ANALYSIS (3-0-3)(S).** 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)(F)(Even years).** Introduction to trends 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)(Offered 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/S).** 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.

# Department of Mechanical and Biomedical Engineering

*College of Engineering*

Engineering Building, Room 201 Phone: (208) 426-4078
http://coen.boisestate.edu/mbe/ Fax: (208) 426-4800

*Chair and Associate Professor:* Don Plumlee. *Professors:* Gardner, Guarino, Tennyson. *Associate Professors:* Ferguson, Senocak. *Assistant Professors:* Lujan, Zhang. *Clinical Assistant Professor:* Pakala. *Lecturers:* Catlin, Engstrom, Wang.

## Degrees Offered

- Bachelor of Science in Mechanical Engineering
  - Secondary Education Emphasis
- Minor in Biomedical Engineering

## 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 B.S. 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 http://idoteach.boisestate.edu. Students must meet and maintain all knowledge, skill, and disposition requirements to remain in the program.

## 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

The Mechanical Engineering Program prepares graduates to demonstrate:

- innovative **problem solving** applying engineering skills and knowledge for the benefit of employers and society,
- **contributions** to the practice of science and engineering,
- effective **communication** presenting ideas and solutions to audiences of various backgrounds and technical understanding,
- effective **team building** working with others to accomplish organizational goals,
- responsible world **citizenship** committed to enriching the engineering community and adhering to the highest ethical standards, and
- proactive **Leadership** 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 pre-requisite.

Admission to the program is based on various academic criteria including performance in a set of designated CORE courses, number of repeated CORE courses as well as professional and ethical behavior. Admission is competitive and due to the large number of students seeking admission to the Bachelor of Science Mechanical Engineering program, not all applicants can be admitted. Please see the MBE advising website: http://coen.boisestate.edu/mbe/students/advising/ to obtain specific information about the application process and application deadlines.

The following CORE courses are used as a basis for admission to the undergraduate Mechanical Engineering program:

- CHEM 111 General Chemistry I
- ENGR 210 Engineering Statics
- ENGR 220 Engineering Dynamics
- MATH 170 Calculus I
- MATH 175 Calculus II
- ME 105 Mechanical Engineering Graphics
- ME 302 Thermodynamics I
- PHYS 211 Physics I with Calculus

To be considered for admission, students must:

1. Complete the designated CORE courses with a minimum GPA of 2.4.
2. Complete the designated CORE courses with no more than 2 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.

Preference will be given to students who have completed at least 20 of the 27 CORE course credits at Boise State University.

## Degree Requirements

| Mechanical Engineering<br>Bachelor of Science | |
|---|---|
| *Course Number and Title* | *Credits* |
| Foundational Studies Program requirements indicated in **bold**. See page 50 for details and lists of approved courses. | |
| **ENGL 101** Introduction to College Writing | 3 |
| **ENGL 102** Intro to College Writing and Research | 3 |
| **UF 100** Intellectual Foundations | 3 |
| **UF 200** Civic and Ethical Foundations | 3 |
| **DLM** MATH 170 Calculus I | 4 |
| *Continued* | |

| *Mechanical Engineering continued* | |
|---|---|
| **DLN** CHEM 111, 111L General Chemistry I & Lab | 4 |
| **DLN** PHYS 211, 211L Physics I with Calculus & Lab | 5 |
| **DLV** Visual and Performing Arts | 3 |
| **DLL** STEM-ED 220 Perspectives on Science and Mathematics (Secondary Education Emphasis) or **DLL** Literature and Humanities | 3-4 |
| **DLS** ENGL 202 Technical Communication or **DLS** STEM-ED 210 Knowing and Learning in Mathematics & Science (Secondary Education Emphasis) | 3 |
| **DLS** ED-CIFS 201 Foundations of Education (Secondary Education Emphasis) or **DLS** Social Sciences course in a second field | 3 |
| CS 117 C++ for Engineers | 3 |
| ENGR 120 Introduction to Engineering or ENGR 130 Introduction to Engineering Applications | 3-4 |
| ENGR 210 Engineering Statics | 3 |
| ENGR 220 Engineering Dynamics | 3 |
| ENGR 240 Electrical and Electronic Circuits | 3 |
| ENGR 245, 245L Intro to Materials Science & Engineering & Lab | 4 |
| 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 MATH 361 Probability and Statistics I | 3 |
| ME 105 Mechanical Engineering Graphics | 3 |
| ME 271 Introduction to Computation for Engineers | 1 |
| ME 302 or ENGR 320 Thermodynamics I | 3 |
| **CID** ME 310 Experimental Methods Lab | 2 |
| ME 320 Heat Transfer | 3 |
| ME 330, 331 or CE 330, 331 or ENGR 330, 331 Fluid Mechanics and Lab | 4 |
| ME 350 or CE 350 or ENGR 350 Engineering Mechanics of Materials | 3 |
| ME 352 Machine Design I | 3 |
| ME 380 Kinematics and Machine Dynamics | 3 |
| ME 424 Thermal and Fluids Systems Design | 3 |
| ME 462 Machine Design II | 3 |
| **FF** ME 481 Senior Design Project I | 3 |
| ME 483 Senior Design Project II | 3 |
| PHYS 212, 212L Physics II with Calculus & Lab | 5 |
| Mechanical engineering electives* (must be upper-division ME courses) | 6 |
| Technical electives* (must be upper-division course) or 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 B.S. in Mechanical Engineering with an emphasis in Secondary Education. | |
| *Total* | 122-124 |
| *Continued* | |

| *Mechanical Engineering continued* | |
|---|---|
| **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 410 Project-Based Instruction | 3 |
| STEM-ED 480 Apprentice Teaching | 6 |
| *Total* | 136-138 |
| Note: The emphasis requires that ED-CIFS 201, STEM-ED 210, STEM-ED 220, STEM-ED 350 must also be completed, as indicated above.. | |
| *All technical electives must be approved by the student's advisor. | |

## Course Offerings

**See page 63 for a definition of the course-numbering system.**

**ENGR – Engineering Science**

**See page 139 for the listing of ENGR courses.**

**ME – Mechanical Engineering**

**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 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 105.

**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.

**Upper Division**

**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, and PHYS 211.

**ME 310 EXPERIMENTAL METHODS LAB (1-2-2)(F/S)(CID).** Instrumentation, data acquisition, and theory verification in the engineering sciences. Emphasis placed on experimental procedure, uncertainty analysis, and technical communication. PREREQ: ENGL 102 (or ENGL 112), ENGR 240, CE/ENGR/ME 331, MATH 360 or MATH 361 and ME Major Status.

**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 or ENGR 320, CE/ENGR/ME 330, MATH 275, MATH 333 and ME Major Status.

**ME 325 HVAC PRINCIPLES (3-0-3)(F/S).** Heating, ventilating and air conditioning applications of thermodynamic and psychometric principles. Calculation of heating and cooling loads based on thermal comfort and design of processes and equipment that maintain desired indoor air quality. PREREQ: ENGR 320 or ME 302. COREQ: CE 330 or ENGR 330 or ME 330.

**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 statistics, hydraulics, computational fluid dynamics, pipe flow, turbulence, drag, and lift. COREQ: ME 330 or CE 330 or ENGR 330.

**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, 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: ENGR 245, ENGR 245L, CE 350 or ENGR 350 or ME 350, MATH 360 (or MATH 361), ME 105 and 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: ENGR 210 or PERM/INST.

**ME 360 (ECE 360) SYSTEM MODELING AND CONTROL (3-0-3)(F).** 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, PHYS 212.

**ME 370 ADVANCED ENGINEERING MATHEMATICS (3-1-3)(F/S).** 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: ENGR 220, MATH 275, MATH 333, ME 271 and ME major status.

**ME 402 APPLIED NUMERICAL METHODS FOR ENGINEERS (3-0-3) (F/S).** 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 structured programming.

**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: ENGR 320 or ME 302, and 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: CE 330 or ENGR 330 or ME 330, ME 320 and ME Major Status.

**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, ENGR 320 or ME 302, CE 330 or ENGR 330 or ME 330.

**ME 430 FLUID DYNAMICS (3-0-3)(F/S).** 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: CE 330 or ENGR 330 or ME 330, MATH 275, MATH 333.

**ME 432 ACOUSTICS (3-0-3)(F/S).** Basic theories of acoustics, wave equations,acoustic response, sound generation, transmission, and attenuation. Measurement techniques and nomenclature. PREREQ: CE 330 or ENGR 330 or ME 330, and MATH 333.

**ME 433 DYNAMIC METEOROLOGY (3-1-3)(F/S).** 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)(F/S).** 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)(F/S).** Fatigue and fracture of materials. Fatigue nucleation, crack growth, temperature effects, fracture toughness and resistance, and design considerations. PREREQ: CE 350 or ENGR 350 or ME 350, MATH 275, MATH 333, or PERM/INST.

**ME 450 ADVANCED MECHANICS OF MATERIALS (3-0-3)(F/S).** 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: CE 350 or ENGR 350 or ME 350.

**ME 454 COMPOSITES (3-0-3)(F/S).** 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: CE 350 or ENGR 350 or ME 350, and MATH 275.

**ME 460 COMPUTER AIDED DESIGN (3-0-3)(F/S).** 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. For students desiring higher level CAD skills prior to taking ME 481, ME 482. PREREQ: ME 320 and ME 352.

**ME 461 (ECE 461) CONTROL SYSTEMS (3-0-3)(F/S).** Time and frequency domain analysis and design of feedback systems using classical and state space methods. Observability, controllability, pole placement, observers, and discrete time. Multivariable and optimal methods are introduced. May be taken for ECE or ME credit, but not both. PREREQ: ECE 360 or ME 360.

**ME 462 MACHINE DESIGN II (3-0-3)(F/S).** Design and analysis of machine parts to prevent failure due to elastic instability, yielding, fracture, crack propagation and fatigue. Treatment is given to both standard and special-purpose parts. PREREQ: ME 352, ME 380 and ME Major Status.

**ME 464 PRODUCTION ENGINEERING (3-0-3)(F/S).** 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 320 and ME 350.

**ME 466 COMPUTER INTEGRATED DESIGN AND MANUFACTURING (3-0-3)(F/S).** 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: CE 350 or ENGR 350 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: ENGR 220, CE 350 or ENGR 350 or ME 350, structured programming, and senior standing.

**ME 471 PARALLEL SCIENTIFIC COMPUTING (3-0-3)(F/S).** Introduction to parallel scientific 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, structured programming, and PERM/INST.

**ME 472 VIBRATIONS (3-0-3)(F/S).** 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: ENGR 220 and 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 ENGR 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.

**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 and ME 462.

**ME 482 OPTIMAL DESIGN (3-0-3)(F/S).** 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)(F/S).** 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: CE 330 or ENGR 330 or ME 330 and CE 350 or ENGR 350 or ME 350.

**ME 485 VEHICLE DESIGN (3-0-3)(F/S).** 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: ENGR 220, CE 350 or ENGR 350 or ME 350, ENGR 245, and ME 105.

**ME 486 HUMAN FACTORS DESIGN (3-0-3)(F/S).** 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: Senior/graduate standing.

**ME 488 DESIGN FOR MANUFACTURE AND ASSEMBLY (3-0-3)(F/S) (Alternate years).** 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: CE 350 or ENGR 350 or ME 350, ME 105.

Medical Studies, Pre-Professional Program — see Department of Community and Environmental Health

Mexican-American Studies Minor — see Department of Sociology

Microbiology — see Department of Biological Sciences

# Department of Military Science (Army ROTC)

*School of Public Service*

Taco Bell Arena, next to entrance 3 Phone: (208) 426-3500
http://sspa.boisestate.edu/militaryscience/ Fax: (208) 343-0543
E-mail: armyrotc@boisestate.edu
Facebook: Boise State University Army ROTC

**CADRE –** *Chair and Professor:* LTC Blaine Wales. *Lecturers:* Cutler, Dahl, Fa'apouli, Hansen, Kempkes, Melton, Patrick.

## 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. The 100 and 200-level courses are open to interested students with no military obligation or commitment to the army. The 300 and 400-level courses are open to United States citizens who will contract into ROTC and pursue a commission as officers in the United States Army.

Students who wish to enroll in the upper-division curriculum in military science must apply and be accepted by the chair of the Department of Military Science. The requirements for the upper-division classes are to complete two additional years of military science and associated labs, field training exercises, physical training, and a four-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, students are commissioned as second lieutenants in the U.S. Army, Army Reserve, or Army National Guard.

## Admission Requirements

All Advanced Course ROTC students must be United States citizens.

Advanced program cadets must:

1. Be admitted to Boise State University in good standing as a full-time student with a 2.0 minimum GPA.
2. Have satisfied **one** of the following requirements: completion of the basic course; successful completion of the four-week leadership training course; or completion of Basic Training. All students must have a minimum of 58 semester hours.
3. Be able to complete all requirements for commissioning before their 34th birthday, if non-scholarship; and before their 31st birthday if scholarship.
4. Be medically qualified in accordance with Department of Army Medical Review Board.
5. Execute an individual contract with the government in which they agree to complete the advanced course at Boise State University or any other institution at which they may thereafter be enrolled where such a program is offered.
6. Devote a minimum of eight hours a week to the military training prescribed by the Secretary of the Army.
7. Attend a four-week Cadet Summer Training course between the junior and senior year, or in exceptional cases, at the end of the senior year.
8. Complete the professional military education (PME) requirements for commissioning. The PME requirements are to articulate the skills and knowledge required of all U.S. Army Officers. The PME consists of four parts, a baccalaureate degree; completion of Military Science Leadership Advanced Course (MILSCI 301 through 402) and the Cadet Summer Training practicum (MILSCI 390); and Military History (HIST 339).
9. Enlist in the ROTC Control Group. This enlistment does not involve additional training or duty but is to ensure compliance with the terms of the contract signed by the student.
10. Agree to accept a commission if tendered.
11. Serve as a commissioned officer. For nonscholarship Cadets: three years active duty with five years in the Inactive Ready Reserve, or for eight years in either the Army Reserve or National Guard. For scholarship Cadets: four years active duty with four years in the Inactive Ready Reserve. If the Army does not require service on active duty, students must agree to serve an initial period of active duty for training of three to six months and remain a member of, and participate satisfactorily in, a reserve component until the eighth anniversary of such appointment; unless sooner relieved under other provisions. Guaranteed Reserve Forces (GRF) assignments are available for those who do not want to compete for the active duty assignments. The GRF assignment allows Officers to remain in their state and continue their civilian career plans as well as serve in the Reserves with an Army Commission.

## Minor Admission Requirements

Students who wish to enroll in the minor curriculum in military science must first apply and be accepted to upper-division (candidacy) for the advance program in military science. All Advanced Course ROTC students must be United States citizens. Non-citizens desiring to enroll in ROTC may attend classroom instruction only for the Basic Course.

## 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 301 Adaptive Team Leadership | 3 |
| MILSCI 302 Leadership in Changing Environments | 3 |
| MILSCI 390 Military Science Practicum | 6 |
| MILSCI 401 Developing Adaptive Leaders | 3 |
| MILSCI 402 Leadership in a Complex World | 3 |
| *Total* | 21 |

## Course Offerings

**See page 63 for a definition of the course-numbering system.**

**MILSCI – Military Science (No military obligation at lower-division level)**

**Students wishing to attend the corresponding labs with the basic course must meet the eligibility requirements of an enrolled student in the ROTC program.**

**Lower Division**

**MILSCI 101 LEADERSHIP AND PERSONAL DEVELOPMENT (1-0-1)(F).** Personal challenges and competencies that are critical for effective leadership. How personal development of life skills such as goal setting, time management, physical fitness, and stress management relate to leadership, officership, and the Army profession.

**MILSCI 101L LEADERSHIP AND PERSONAL DEVELOPMENT LAB (0-1-1)(F).** COREQ: ROTC program status. (Pass/Fail).

**MILSCI 102 FOUNDATIONS IN LEADERSHIP (1-0-1)(S).** Leadership fundamentals such as setting direction, problem-solving, listening, presenting briefs, providing feedback, and using effective writing skills, and actions in the context of practical, hands-on, and interactive exercises.

**MILSCI 102L FOUNDATIONS IN LEADERSHIP LAB (0-1-1)(S).** COREQ: ROTC program status. (Pass/Fail).

**MILSCI 104 CORPS PHYSICAL FITNESS (0-3-1)(S).** A requirement for all contracted cadets. Forms the building blocks of progressive lessons in fitness, leadership, and officership all embedded in a values-based structure. Develop and implement a physical fitness plan using the U.S. Army FITT (Frequency, Intensity, Time, and Type) methodology. 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).** Dimensions of creative and innovative tactical leadership strategies and styles by studying historical case studies and engaging in interactive student exercises. Personal motivation and team building in the context of planning, executing, and assessing team exercises.

**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).** Challenges of leading teams in the complex contemporary operating environment (COE). Dimensions of the cross-cultural challenges of leadership in a constantly changing world and applies these to practical Army leadership tasks and situations.

**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).** Study, practice, and evaluate adaptive leadership skills as they are presented with the demands of the ROTC Leader Development Assessment Course (LDAC). Challenging scenarios related to small unit tactical operations assist in the development of self awareness and critical thinking skills. PREREQ: Admission to program.

**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).** Increasingly intense situational leadership challenges to build cadet awareness and skills in leading small units. Skills in decision-making, persuading, and motivating team members in the contemporary operating environment (COE) are explored, evaluated, and developed. Aspects of combat, stability operations, and support operations as they prepare to attend the ROTC (LDAC).

**MILSCI 302L LEADERSHIP IN CHANGING ENVIRONMENTS LAB (0-1-1)(S).** COREQ: ROTC program status. (Pass/Fail).

**MILSCI 390 MILITARY SCIENCE PRACTICUM (V-V-6)(SU).** Application of the leadership skills learned at the four-week ROTC (CST) at Fort Knox, Kentucky. Note: This is required of all contracted students and is usually required between the junior and senior year.

**MILSCI 401 DEVELOPING ADAPTIVE LEADERS (3-0-3)(F).** Develops proficiency in planning, executing, and assessing complex operations, functioning as a member of a staff, and providing leadership performance feedback to subordinates. Risk management, make ethical decisions, and coaching fellow ROTC cadets.

**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).** Dynamics of leading in the complex situations of current military operations in the contemporary operating environment (COE). Examination of differences in customs and courtesies, military law, principles of war, and rules of engagement in the face of international terrorism. Aspects of interactions with non-government organizations, civilians on the battle field, and host nation support.

**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).** Application of skills while membership in ROTC and Army Reserve/National Guard. PREREQ: PERM/CHAIR.

# Multidisciplinary Studies

*College of Arts and Sciences*

1023 South Grant Avenue Phone: (208) 426-3721
Fax: (208) 426-xxxx
E-mail: MDS@boiststate.edu
Website: http://mds.boisestate.edu/

*Program Director:* Vicki Budd. *Advisor:* Alexis Kenyon. *Admission Specialist:* Rebecca Morgan.

## 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. Students desiring a discipline-specific course of study should consider traditional majors.

## Admission Requirements

Admission to the Bachelor of Arts in Multidisciplinary Studies program requires a minimum of at least 58 semester hours of credit earned with a 2.25 GPA at or transferable to Boise State University. 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 at least five years of life experience other than that of being a full-time student, e.g., full-time paid or volunteer employment, family care-provider/parent, or other non-academic life experience.

## Degree Requirements

| Multidisciplinary Studies<br>Bachelor of Arts | |
|---|---|
| *Course Number and Title* | *Credits* |
| Foundational Studies Program requirements indicated in **bold**. See page 50 for details and lists of approved courses. | |
| **ENGL 101** Introduction to College Writing | 3 |
| **ENGL 102** Intro to College Writing and Research | 3 |
| **UF 100*** Intellectual Foundations | 3 |
| **UF 200*** Civic and Ethical Foundations | 3 |
| **DLM** Mathematics | 3-4 |
| **DLN** Natural, Physical, & Applied Sciences course with lab | 4 |
| **DLN** Natural, Physical, and Applied Sciences course | 3-4 |
| **DLV** Visual and Performing Arts | 3 |
| **DLL** Literature and Humanities | 3-4 |
| **DLS** Social Sciences course in a first field | 3 |
| **DLS** Social Sciences course in a second field | 3 |
| **CID** MDS 300 Communication Universally | 3 |
| **FF** MDS 400 Capstone for the BA in Multidisciplinary Studies | 3 |
| Upper-division courses required by the degree plan<br>Upper-division courses will be selected in collaboration with the program advisor based on the student's educational goals and a degree plan approved by the Multidisciplinary Studies Advisory Committee. These courses must be completed during or after successful completion of MDS 300. At a minimum the proposed course of study must demonstrate a coherent design; characterized by appropriate breadth, depth, sequencing of courses and synthesis of learning. The design must be clearly linked to the stated educational objectives of the program. Programs of study that appear to be crafted to avoid course sequencing, pre-requisites, or disciplinary coherence will not be approved. Only 4 credits for internship and/or field work may be applied. With advisor approval, up to 3 credits from upper-division workshops may be used to satisfy this requirement. | 21 |
| Upper-division electives to total 40 credits | 13 |
| Electives to total 120 credits | 43-46 |
| *Total* | 120 |
| *If student comes in as core-certified, then **UF 300** Transfer Foundations (3 credits) will replace the **UF 100** and **UF 200**. Students must maintain a 2.25 GPA for all major requirements. | |

## Course Offerings

**See page 63 for a definition of the course-numbering system.**

**MDS – Multidisciplinary Studies**

**MDS 300 COMMUNICATING UNIVERSALLY (3-0-3)(F/S/SU)(CID).** Must be taken during first semester of the Multidisciplinary Studies program. Introduction and analysis of learning and adult development theories, utilizing reflection and application of current life skills and intellectual competencies. Through writing and presentation students will apply theories and readings to assess their own critical thinking skills and communication proficiencies as they relate to career and life goals. PREREQ: ENGL 101. PRE/COREQ: ENGL 102 (or ENGL 112); and admitted to program.

**MDS 400 CAPSTONE FOR THE BACHELOR OF ARTS IN MULTIDISCIPLINARY STUDIES (3-0-3)(F/S/SU)(FF).** Fifteen hours of service-learning, major research paper or project and presentation of results required to demonstrate critical thinking skills, communication strategies, and content expertise to analyze a problem or issue related to life and career goals. The course will provide evidence of attaining the program outcomes and educational goals of the student's degree plan developed and approved in MDS 300. PREREQ: MDS 300, senior standing, department consent.

**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. PREREQ: Admitted to program 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. PREREQ: Admitted to program 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. PREREQ: Admitted to program 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. PREREQ: Admitted to program 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. PREREQ: Admitted to program or PERM/INST.

**MDS 493 INTERNSHIP (variable credit)(F/S/SU).** Supervised fieldwork designed to receive academic credit for professional experience that is relevant to your Individual Degree Plan (IDP) goals. PREREQ: Admitted to program.

# Department of Music

*College of Arts and Sciences*

Morrison Center, Room C-100 Phone: (208) 426-1596
music.boisestate.edu Fax: (208) 426-1771
E-mail: jennieficks@boisestate.edu

*Chair and Professor:* Mark Hansen. *Professors:* Baldwin, Belfy, Berg, Kline Lamar, Parkinson, Saunders. *Associate Professors:* Brown, Hodges, Jirak, Molumby, Moreau, Rushing-Raynes, Samball. *Assistant Professors:* Biedenbender, Noppe, Paradis, Porter, Purdy, Springer, Tornello.

## Degrees Offered

- Bachelor of Arts in Music
- Bachelor of Arts in Music/Business
- 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 B.A. in music is appropriate for students who wish to pursue general music studies within a broad-based program of liberal arts study. An additional program is offered, which combines this liberal arts study of music with courses in business disciplines thus preparing students for careers in the music industry.

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:

- B.A. Music, B.A. Music/Business, B.M. Performance, and B.M. Composition emphases majors—8 semesters
- B.M. 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, Women's Chorus, or for keyboard, the appropriate course as specified), 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, distributed as follows: 2 semesters of Accompanying (MUS-ENS 180/380), remaining 6 semesters to be fulfilled by choosing among 1 additional semester of Accompanying (MUS-ENS 180/380), 1-2 semester(s) Duo-Piano Ensemble (MUS-ENS 185/385), and 3-6 semesters of large ensemble
  - Voice – 8 semesters, 2 may be Opera Workshop
  - All Others – 8 semesters
- Composition Majors – 8 semesters
- Music Education Majors – 7 semesters

Bachelor of Arts:
- Music and Music/Business — 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. Pass a vocal proficiency exam prior to their application for student teaching. Successful completion of MUS 221 Ear Training III and of the folk/art song singing section of MUS 256 Vocal Techniques and Methods will satisfy this requirement. Further information is available from the Music Department.
2. 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 Appeals Committee and normal appeals procedures as described in the *Boise State University Student Handbook*.
3. Receive the grade of C or better in MUS 119 to have ED-LLC 444 waived.
4. Pass the Piano Proficiency Examination before a faculty committee. A grade of C or better in MUS-APL 109 will also satisfy the piano proficiency requirement.
5. Complete a technology requirement established by the College of Education.
6. Successfully complete the PRAXIS II music examinations.

| Performance<br>Bachelor of Music | |
|---|---|
| *Course Number and Title* | *Credits* |
| Foundational Studies Program requirements indicated in **bold**. See page 50 for details and lists of approved courses. | |
| **ENGL 101** Introduction to College Writing | 3 |
| **ENGL 102** Intro to College Writing and Research | 3 |
| **UF 100** Intellectual Foundations | 3 |
| **UF 200** Civic and Ethical Foundations | 3 |
| **DLM** Mathematics | 3-4 |
| **DLN** Natural, Physical, & Applied Sciences course with lab | 4 |
| **DLN** Natural, Physical, and Applied Sciences course | 3-4 |
| **DLV** MUS 100 Introduction to Music | 3 |
| **DLL** Literature and Humanities | 3-4 |
| **DLS** Social Sciences course in a first field | 3 |
| **DLS** Social Sciences course in a second field | 3 |
| MUS 119, 120, 219, 220 Materials of Music | 12 |
| MUS 121, 122, 221, 222 Ear Training | 4 |
| **CID** MUS 202 Music Communications | 2 |
| 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 |
| **FF** 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 |
| 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 | 0-6 |
| Electives to total 128 credits | 2-11 |
| *Total* | 128 |
| *Continued* | |

| *Performance continued* | |
|---|---|
| **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 | 0-8 |
| Electives to total 128 credits | 0-10 |
| *Total* | 128 |
| **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 | 0-3 |
| Electives to total 128 credits | 0-4 |
| *Total* | 128 |
| **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 | 0-13 |
| *Total* | 128 |

## Composition Bachelor of Music

| *Course Number and Title* | *Credits* |
|---|---|
| Foundational Studies Program requirements indicated in **bold**. See page 50 for details and lists of approved courses. | |
| **ENGL 101** Introduction to College Writing | 3 |
| **ENGL 102** Intro to College Writing and Research | 3 |
| **UF 100** Intellectual Foundations | 3 |
| **UF 200** Civic and Ethical Foundations | 3 |
| **DLM** Mathematics | 3-4 |
| **DLN** Natural, Physical, & Applied Sciences course with lab | 4 |
| **DLN** Natural, Physical, and Applied Sciences course | 3-4 |
| **DLV** MUS 100 Introduction to Music | 3 |
| **DLL** Literature and Humanities | 3-4 |
| **DLS** Social Sciences course in a first field | 3 |
| **DLS** Social Sciences course in a second field | 3 |
| MUS 119, 120, 219, 220 Materials of Music | 12 |
| MUS 121, 122, 221, 222 Ear Training | 4 |
| **CID** MUS 202 Music Communications | 2 |
| MUS 208 Music Technology | 2 |
| MUS 261 Basic Conducting | 1 |
| MUS 312 Introduction to Computer Music | 3 |
| *Continued* | |

| *Composition continued* | |
|---|---|
| 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 |
| **FF** 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 semesters) | 2 |
| MUS-PRV 282 Composition Lessons (two semesters) | 4 |
| MUS-PRV 382 or 482 Composition Lessons (must study for at least one 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 | 4-7 |
| *Total* | 128 |

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

| *Course Number and Title* | *Credits* |
|---|---|
| Foundational Studies Program requirements indicated in **bold**. See page 50 for details and lists of approved courses. | |
| **ENGL 101** Introduction to College Writing | 3 |
| **ENGL 102** Intro to College Writing and Research | 3 |
| **UF 100** Intellectual Foundations | 3 |
| **UF 200** Civic and Ethical Foundations | 3 |
| **DLM** Mathematics | 3-4 |
| **DLN** Natural, Physical, & Applied Sciences course with lab | 4 |
| **DLN** Natural, Physical, and Applied Sciences course | 3-4 |
| **DLV** MUS 100 Introduction to Music | 3 |
| **DLL** Literature and Humanities | 3-4 |
| **DLS** ED-CIFS 201 Foundations of Education | 3 |
| **DLS** Social Sciences course in a second field | 3 |
| ED-CIFS 301* Teaching: Experience I | 1 |
| ED-CIFS 302* Learning and Instruction | 4 |
| *Continued* | |

| *Music Education continued* | |
|---|---|
| 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 119*, 120, 219, 220 Materials of Music (*with grade of C or higher this course satisfies the requirement for ED-LLC 444) | 12 |
| MUS 121, 122, 221, 222 Ear Training | 4 |
| **CID** MUS 202 Music Communications | 2 |
| MUS 208 Music Technology (see Music Education Emphasis Additional Requirements for explanation of this requirement.) or EDTECH 202 Teaching and Learning in a Digital Age | 2-3 |
| 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 of the three Professional Year classes below:<br>MUS 481* Professional Year: Elementary Teaching Exp III Dual Option<br>MUS 482* Professional Year: Jr High Teaching Exp IV Dual Option<br>MUS 483* Professional 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 |
| **FF** 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 |
| *Continued* | |

| *Music Education continued* | |
|---|---|
| Electives chosen from:<br>MUS 208 Music Technology<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 1-3 credits of other free music electives with prior written approval by the Music Education Committee. | 6 |
| *Total* | 135-139 |
| 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

| *Course Number and Title* | *Credits* |
|---|---|
| Foundational Studies Program requirements indicated in **bold**. See page 50 for details and lists of approved courses. | |
| **ENGL 101** Introduction to College Writing | 3 |
| **ENGL 102** Intro to College Writing and Research | 3 |
| **UF 100** Intellectual Foundations | 3 |
| **UF 200** Civic and Ethical Foundations | 3 |
| **DLM** Mathematics | 3-4 |
| **DLN** Natural, Physical, & Applied Sciences course with lab | 4 |
| **DLN** Natural, Physical, and Applied Sciences course | 3-4 |
| **DLV** MUS 100 Introduction to Music | 3 |
| **DLL** Literature and Humanities | 3-4 |
| **DLS** Social Sciences course in a first field | 3 |
| **DLS** Social Sciences course in a second field | 3 |
| MUS 119, 120, 219, 220 Materials of Music | 12 |
| MUS 121, 122 221, 222 Ear Training | 4 |
| **CID** MUS 202 Music Communications | 2 |
| 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 |
| **FF** MUS-APL 445 BA Senior Recital (see course description for details) or **FF** MUS-APL 448 BA Senior Project (independent study terminal project under faculty supervision and with 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 semester at the MUS-PRV 200-level.) | 4 |
| Performance, theory, music education, or music history courses to support Senior Recital or Senior Project | 8 |
| *Continued* | |

| *Music continued* | |
|---|---|
| Upper-division electives to total 40 credits | 17-33 |
| Electives to total 120 credits | 7-26 |
| *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 |
| MUS 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 |
| Note: MUS-PRV courses are extra fee courses. Music minors must perform semester-end juries. | |

## Course Offerings

**See page 63 for a definition of the course-numbering system.**

**MUS – Music, General**

**Lower Division**

**MUS 100 INTRODUCTION TO MUSIC (3-0-3)(F,S,SU)(DLV).** 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 (3-0-3)(F).** A preliminary course designed to acquaint the student with music history (from the Middle Ages to the present), literature, materials, library and listening skills, and writing about music. Though open to all students with a serious interest in music, the course presupposes the student has a basic background in music. The course is writing-intensive, with research, journal and essay assignments.

**MUS 102 INTRODUCTION TO JAZZ (3-0-3)(F,S)(DLV).** 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 (2-0-2)(F).** This introduction to music theory course is designed for incoming music majors with minimal music theory background, as determined by the Music Literacy Predictive Exam given at the time of audition to the music program. It is understood that students who take MUS 103 in the fall should take MUS 104 in the spring.

**MUS 104 ELEMENTS OF EAR TRAINING (2-0-2)(S).** This introduction to ear training course is designed for first-year 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. PREREQ: MUS 103.

**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 202 MUSIC COMMUNICATIONS (2-0-2)(F)(CID).** A second-year course for the music major in writing, speaking, and presenting in the discipline, using Western music history and non-Western musics as content. PREREQ: ENGL 102 (or ENGL 112), MUS 100.

**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 202 and MUS 219.

**MUS 352 MUSIC HISTORY AND LITERATURE II (3-0-3)(F).** Encompasses the periods from the mid-baroque through the early 19th century. Attention to the changes in music forms and genres through listening, score-reading, analysis and discussion. PREREQ: MUS 202 and MUS 219.

**MUS 353 MUSIC HISTORY AND LITERATURE III (3-0-3)(S).** Encompasses the music of the mid-19th 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 355 ROCK MUSIC: ITS PERFORMANCE AND HISTORY (3-0-3)(F/S).** Survey of history and theory of rock music from primitive beginnings in nineteenth century to the present with primary focus on music from 1950 through 1970. Includes a final performance component. Graduate students will be expected to engage in current research on the subject matter. PREREQ: MUS 220 and PERM/INST.

**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 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 401 MUSIC THEORY REVIEW (2-0-1)(F).** The course is a review of undergraduate music theory materials and is designed for graduate students

planning to take the Predictive exam in music theory. Meets the first 8 weeks of the semester only. PREREQ: Baccalaureate Degree.

**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: MUS 100 or MUS 101.

**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 472 ADVANCED METHODS FOR ELEMENTARY MUSIC TEACHING (3-0-3)(F)(Even years).** Primarily for music majors. Emphasis on methods and materials for individualized instruction, special education, related arts, and listening lessons, as well as a study of the major contributions made to music education from the fields of educational philosophy and psychology. PREREQ: MUS 374.

**MUS 481 PROFESSIONAL YEAR—ELEMENTARY TEACHING EXPERIENCE III DUAL OPTION (0-15-8)(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 (0-15-8)(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 (0-15-8)(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 107 RECORDER CLASS (1-0-1)(S).** The class is designed to improve the technical ability of the classroom teacher or anyone interested in playing the recorder and to discover the classroom value of the instrument. Baroque ensembles will be emphasized. The class will meet once a week. Students must supply their own instrument. May be repeated once for credit.

**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 127 BEGINNING GUITAR CLASS (0-2-1)(F/S).** Technical fundamentals in playing the acoustical guitar for beginners. Use of popular and folk songs. Course is based on written notation and aural instruction, stressing chord playing, correct posture, and holding positions. Students must provide their own instrument. May be repeated once for credit.

**MUS-APL 128 INTERMEDIATE GUITAR CLASS (0-2-1)(F/S).** Continuation of MUS-APL 127. Emphasis on understanding fret-board theory, reading music notation for guitar, and solo playing. Concept of form levels as it relates to upper position work. Students must provide their own instrument. May be repeated once for credit. PREREQ: MUS-APL 127 or PERM/INST.

**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 307 RECORDER CLASS (1-0-1)(F/S).** The class is designed to enhance the technical ability of the classroom teacher or anyone interested in playing the recorder and to discover the classroom value of the instrument. Baroque ensembles will be emphasized. The classes will meet once a week. Students must supply their own instrument. May be repeated once for credit. PREREQ: MUS-APL 107 or PERM/INST.

**MUS-APL 327 ADVANCED GUITAR CLASS (0-3-2)(F/S).** Study of music and technical problems in solo guitar playing: chord construction and progression, analysis of intervals, functional harmonic relationships, principals of guitar transcriptions, and introduction of improvisation. Students must provide their own instrument. May be repeated once for credit. PREREQ: MUS-APL 128 or PERM/INST.

**MUS-APL 328 JAZZ GUITAR CLASS (0-2-1)(F/S).** A course in jazz improvisation for the guitarist with at least 1 year of playing experience. The use of the guitar in jazz is approached within a historical perspective beginning with the 1930s. Students must provide their own instrument. May be repeated once for credit. PREREQ: MUS-APL 128 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)(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.

**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. PREREQ: Enrollment is by audition and Music Department approval.

**MUS-ENS 106, 306 CHAMBER SINGERS (0-2-1)(F/S).** Concentrates on choral literature in the madrigal style and on twentieth-century choral selections. Open to all students, but final admission will be by audition and director selection. Limited to 15 singers. PREREQ: Audition and/or PERM/INST.

**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. PREREQ: PERM/INST.

**MUS-ENS 112, 312 WOMEN'S CHORUS (0-3-1)(F,S).** Designed for female singers who are interested in performing a wide repertoire of music composed for a women's chorus. Enrollment is open to all university women students. Public performance(s) will be expected each semester.

**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.

**MUS-ENS 115, 315 OPERA THEATRE (0-V-1)(F,S,SU).** A course in the study and production of operas. PREREQ: PERM/INST.

**MUS-ENS 118, 318 EARLY MUSIC ENSEMBLE (0-2-1)(F,S,SU).** Course explores European vocal and instrumental music from the Middle Ages, Renaissance and Baroque periods through performance. Concert performances by students enrolled in the course are expected each semester.

**MUS-ENS 120, 320 SYMPHONIC WINDS (0-5-1)(F,S).** The Symphonic Winds is the select concert band of the university. 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.

**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.

**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. 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. 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. 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 performance is required each semester. PREREQ: PERM/INST.

**MUS-ENS 135, 335 FLUTE CHOIR (0-1-1)(F,S).** Study and performance of music for flutes. Literature consists of original and transcribed works for piccolo, flute, alto flute and bass flute. Public performances are given each semester. 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. 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.

**MUS-ENS 167, 367 GUITAR ENSEMBLE (0-2-1)(F/S).** A course designed to promote playing in and repertoire knowledge of ensembles of including guitar(s). PREREQ: PERM/INST.

**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. 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. 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.

**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. 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 B.A. Music majors, B.A. 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 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.

## Native American Studies Minor — see Department of Anthropology

# School of Nursing

*College of Health Sciences*

Norco Nursing and Health Sciences Building, Room 433
http://hs.boisestate.edu/nursing/ Telephone (208) 426-4143
E-mail: nursing@boisestate.edu Fax (208) 426-1370

*Director, School of Nursing and Associate Professor:* Ann Hubbert. *Chair of BS Completion, AGNP, DNP Programs and Professor:* Denise Seigart. *Chair of Undergraduate Program and Masters of Nursing Program Coordinator and Professor:* Denise Seigart. *Jodi DeMeyer Endowed Chair in Nursing:* vacant. *Doctor of Nursing Practice Program Coordinator and Associate Professor:* Pam Strohfus. *Adult-Gerontology Nurse Practitioner Program Coordinator and Associate Professor:* Dawn Weiler. *Undergraduate Program Coordinator:* vacant. *Professor:* Grassley. *Associate Professors:* Ahten, Connor, Davis, Downey, Gehrke, Hereford, Josephsen, Macy, Prengaman, Veltman. *Assistant Professors:* Breitkreuz, Carlson, Gallegos, Martz, Siemon, Towle, Walker, Willhaus. *Lectures:* Anderson, Marsh. *Clinical Assistant Professors:* Brauner, Butt, Deckys, Godard, Molina-Shaver, Quiroz, Van Zandt, Zhao. *Clinical Coordinator:* Mulcock. *Simulation Director:* Rebecca Bunderson.

## Degrees Offered

- Bachelor of Science in Nursing

## School Statement

The School of Nursing offers a Bachelor of Science (B.S.) degree for those desiring licensure as a Registered Nurse (R.N.). 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. In addition, the School of Nursing also offers degrees of Master of Science in Nursing, Master of Nursing, Doctor of Nursing Practice, and new graduate programs as announced on the website. Contact the School of Nursing at the above telephone, fax, e-mail, or website to obtain more information on the nursing educational programs at Boise State University.

The Bachelor of Science Nursing Program is approved by the Idaho State Board of Nursing. The Bachelor of Science Program is accredited by the Accreditation Commission for Education in Nursing (ACEN), 3343 Peachtree Road, NE, Suite 850, Atlanta, Georgia, 30326, (404) 975-5000.

Students accepted into the Undergraduate Bachelor of Science 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

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 before admission will be granted. Students are strongly encouraged to work with an advisor through http://hs.boisestate.edu/advising/.

Admission to the Bachelor of Science Nursing Program will be based on various academic/personal requirements. Please see the School of Nursing website, http://hs.boisestate.edu/nursing/bachelors/, 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 Nursing Program for those not licensed as a registered professional nurse (RN) include:

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 254
     - CHEM 101 with lab or CHEM 111 with lab
     - BIOL 227, BIOL 228
2. These courses need to be completed before an application, but are not counted into the GPA calculation for admission.
   - ENGL 101, ENGL 102
   - PSYC 101
   - UF 100*
   - HLTHST 207
   - SOC 101 or 102 or 230 (DLS)
3. These courses must be completed before or during the semester of application into the Nursing Program. These courses are not counted into the GPA calculation for admission.
   - UF 200*
   - BIOL 205
   - HLTHST 300

*Students transferring from another institution and those who already have at least an academic associate of science or an associate of arts degree do not need to take these courses prior to admission. However, they do need to be "core certified" prior to entering the nursing program and must take the UF 300 within one year of starting the program. For more details see: http://academics.boisestate.edu/fsp/students/uf-300/transfer/.

## Degree Requirements

| Nursing<br>Bachelor of Science | |
|---|---|
| *Course Number and Title* | *Credits* |
| Foundational Studies Program requirements indicated in **bold**. See page 50 for details and lists of approved courses. | |
| **ENGL 101** Introduction to College Writing | 3 |
| **ENGL 102** Intro to College Writing and Research | 3 |
| **UF 100** Intellectual Foundations | 3 |
| **UF 200** Civic and Ethical Foundations | 3 |
| **DLM** MATH 254 Introduction to Statistics | 3 |
| **DLN** BIOL 227 Human Anatomy and Physiology | 4 |
| **DLN** CHEM 101/101L or CHEM 111/111L Chemistry | 4 |
| **DLV** Visual and Performing Arts | 3 |
| **DLL** Literature and Humanities | 3-4 |
| **DLS** PSYC 101 General Psychology | 3 |
| **DLS** SOC 101 Introduction to Sociology or<br>**DLS** SOC 102 Social Problems or<br>**DLS** SOC 230 Introduction to Ethnic Studies | 3 |
| BIOL 205 Introductory Microbiology | 4 |
| BIOL 228 Human Anatomy and Physiology | 4 |
| HLTHST 207 Nutrition | 3 |
| HLTHST 300 Pathophysiology | 4 |
| **FF** HLTHST 400 Interprofessional Capstone | 1 |
| NURS 105 Interprofessional Patient Care Skills Lab | 2 |
| **CID** NURS 226 Essentials of Communication in Professional Nursing | 3 |
| NURS 228, 229 Health Assessment and Lab | 3 |
| NURS 230 Dosage Calculations for Nurses | 1 |
| *Continued* | |

| *Nursing continued* | |
|---|---|
| NURS 232, 233 Foundations of Nursing Care and Lab | 4 |
| NURS 330 Applied Pharmacotherapeutics for Nurses | 3 |
| NURS 332, 333 Nursing in Health and Illness I and Lab | 6 |
| NURS 334, 335 Behavioral Health Nursing and Lab | 4 |
| NURS 342, 343 Nursing in Health and Illness II and Lab | 6 |
| NURS 344, 345 Child and Family Nursing and Lab | 6 |
| NURS 392 Nursing Research and Evidence Based Practice | 3 |
| NURS 414 Critical Thinking Synthesis | 1 |
| NURS 416, 417 Community & Public Health Nursing & Lab | 6 |
| NURS 420 Policy, Power, and Voice | 3 |
| NURS 422 Care Coordination and Resource Management | 3 |
| NURS 424, 425 Nursing Leadership & Management & Lab | 5 |
| NURS 427 Clinical Preceptorship | 3 |
| NURS 428 Nursing Roles in Healthy Aging | 2 |
| NURS 430 Current Trends in Nursing | 1 |
| Electives to total 120 credits | 3-4 |
| *Total* | 120 |
| Nursing students must earn a grade of C (not C-) or better in all nursing (NURS) courses. | |

### RN-BS Completion (For individuals with a Registered Nurse (R.N.) license applying to the Undergraduate Bachelor of Science Nursing Program.)

#### Pre-licensure Track

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 before admission will be granted. Students are strongly encouraged to work with an advisor through http://hs.boisestate.edu/advising/.

RNs with an academic Associate of Science or an Associate of Arts degree from a regionally accredited institution, including Boise State University, are considered core certified.

RNs with AS degrees are required to take UF 300 Transfer Foundations, in lieu of UF 100 and UF 200.

For RNs who have been awarded an Associate of Science (A.S) or Associate of Arts (A.A.) in Nursing or have a previous Bachelor's degree.

| Nursing, RN-BS Completion Track<br>Bachelor of Science | |
|---|---|
| *Course Number and Title* | *Credits* |
| Foundational Studies Program requirements indicated in **bold**. See page 50 for details and lists of approved courses. | |
| **UF 300** Transfer Foundations | 3 |
| **FF** HLTHST 400 Interprofessional Capstone | 1 |
| NURS 392 Nursing Research and Evidence Based Practice | 3 |
| NURS 416, 417 Community & Public Health Nursing & Lab | 6 |
| **CID** NURS 420 Policy, Power, and Voice | 3 |
| NURS 422 Care Coordination and Resource Management | 3 |
| NURS 424, 425 Nursing Leadership & Management & Lab | 5 |
| NURS 428 Nursing Roles in Healthy Aging | 2 |
| NURS 430 Current Trends in Nursing | 3 |
| Statistics Course | 3 |
| *Continued* | |

| *Nursing, RN-BS Completion Track continued* | |
|---|---|
| Credit for Prior Learning | 39 |
| Transfer credit from AA/AS degree | 49 |
| *Total* | 120 |
| Recommended: NURS 306 E-Learning Preparation for RNs<br>Nursing students must earn a grade of C (not C-) or better in all nursing (NURS) courses. | |

#### RN-BS Completion Track

Students interested in pursuing a Baccalaureate degree must be accepted for admission to the Bachelor of Science Nursing Program before a student may enroll in nursing or other core courses. All admission requirements must be completed before admission will be granted. Students are strongly encouraged to work with an advisor through http://hs.boisestate.edu/nursing/rnbs/new/.

RNs with AAS or ADN degrees or a Diploma in Nursing from a regionally accredited institution are required to take NURS 350 Professional Transitions in Nursing for the RN, and may need other university Foundational Studies courses to meet the requirements for the B.S. 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, ADN, or a Diploma in Nursing, and students whose degree has not been recognized by Boise State University.

| Nursing, RN-BS Completion Track<br>Bachelor of Science | |
|---|---|
| *Course Number and Title* | *Credits* |
| Foundational Studies Program requirements indicated in **bold**. See page 50 for details and lists of approved courses. | |
| **ENGL 101** Introduction to College Writing | 3 |
| **ENGL 102** Intro to College Writing and Research | 3 |
| **UF 100** Intellectual Foundations and **UF 200** Civic and Ethical Foundations or<br>**UF 300** Transitional Foundations | 3-6 |
| **DLM** Mathematics | 3-4 |
| **DLN** BIOL 227 Human Anatomy and Physiology | 4 |
| **DLN** CHEM 100 or CHEM 101/101L or CHEM 111/111L Chemistry | 4 |
| **DLV** Visual and Performing Arts | 3 |
| **DLL** Literature and Humanities | 3-4 |
| **DLS** PSYC 101 General Psychology | 3 |
| **DLS** Social Sciences course in a second field | 3 |
| **FF** HLTHST 400 Interprofessional Capstone | 1 |
| NURS 350 Professional Transitions in Nursing | 3 |
| NURS 392 Nursing Research and Evidence Based Practice | 3 |
| NURS 416, 417 Community & Public Health Nursing & Lab | 6 |
| **CID** NURS 420 Policy, Power, and Voice | 3 |
| NURS 422 Care Coordination and Resource Management | 3 |
| NURS 424, 425 Nursing Leadership & Management & Lab | 5 |
| NURS 428 Nursing Roles in Healthy Aging | 2 |
| NURS 430 Current Trends in Nursing | 3 |
| Statistics Course* | 0-3 |
| Credit for Prior Learning (Nursing courses) | 39 |
| Transfer or additional credit taken | 12-20 |
| *Total* | 120 |
| *Continued* | |

| *Nursing, RN-BS Completion Track continued* |
| --- |
| Recommended: NURS 306 E-Learning Preparation for RNs |
| Nursing students must earn a grade of C (not C-) or better in all nursing (NURS) courses. |
| *If MATH 254 is taken to fulfill the DLM requirement, then the "statistics course" requirement is fulfilled. |

## Course Offerings

**See page 63 for a definition of the course-numbering system.**

**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.

**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 ESSENTIALS OF COMMUNICATION IN PROFESSIONAL NURSING (3-0-3)(F,S)(CID).** Introduction to concepts of Professional Nursing related to communication, writing, management of health information, and roles in health delivery systems. PREREQ: ENGL 102 (or ENGL 112), Admission to the nursing program. 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 nursing program. 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 the nursing program. COREQ: NURS 228.

**NURS 230 DOSAGE CALCULATIONS FOR NURSES (1-0-1)(F,S).** Application of algebra, mathematical ratios and proportions in medication administration. 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 the program. COREQ: NURS 228, NURS 229. PRE/COREQ: HLTHST 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 the nursing program. COREQ: NURS 232, NURS 226.

**Upper Division**

**NURS 306 E-LEARNING PREPARATION FOR THE RN (1-0-1)(F,S).** Prepares RNs in understanding how to be successful in the online/distance completion option in the School of Nursing at Boise State University. PREREQ: Licensed RN and Admission to Boise State University.

**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: HLTHST 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: HLTHST 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: HLTHST 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. 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 complex behavioral health issues within the community and acute care settings. Integrates concepts and theory from NURS 334. (Pass/Fail). PREREQ: 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: 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: 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: 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: NURS 330, NURS 332. COREQ: NURS 344.

**NURS 350 PROFESSIONAL TRANSITIONS IN NURSING FOR THE RN (3-0-3)(F,S).** Designed to meet the learning needs of registered nurses who want to continue their professional education and receive a baccalaureate degree in nursing. Focus on concepts of community based nursing, advanced concepts of role transition, and change theory. Required for A.A.S., A.D.N. or Diploma in Nursing RNs only. PREREQ: Admission to the RN-B.S. Completion Option.

**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 nursing or PERM/INST.

**NURS 375 EMERGENCY NURSING CARE (2-3-3)(F,S).** Develop knowledge and skills in emergency nursing care. PREREQ: 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.

**NURS 377 RURAL NURSING (1-2-3)(SU).** An introduction to rural nursing theory, research, and clinical practice. PREREQ: NURS 332, NURS 333 and 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: NURS 303 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 in BS Prelicensed Option: MATH 254. PREREQ in RN-BS Completion Option: A statistics course.

**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: NURS 302 and NURS 303, 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: NURS 302 and NURS 303, or PERM/INST.

**NURS 414 CRITICAL THINKING SYNTHESIS (1-0-1)(F,S).** Critical thinking related to licensure, delegation, and dilemmas in practice. Success on predictor examination required. PREREQ: 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 practice. PREREQ: NURS 392. COREQ: NURS 417.

**NURS 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: NURS 392. COREQ: NURS 416.

**NURS 420 POLICY, POWER, AND VOICE (RN-BS Completion Option) (3-0-3)(F,S)(CID).** 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: ENGL 102 (or ENGL 112), NURS 392.

**NURS 422 CARE COORDINATION AND RESOURCE MANAGEMENT (3-0-3)(F,S).** 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: for B.S. Prelicensed Option: NURS 392. PREREQ: for RN-B.S. Completion Option: Admission to the RN-B.S. Completion Option.

**NURS 424 NURSING LEADERSHIP AND MANAGEMENT (3-0-3)(F,S).** Theory and concepts of issues in nursing management: Utilization of theory surrounding conflict resolution, negotiation, budgeting, scheduling, ethics, human resources, and policy development. PREREQ: NURS 392. COREQ: NURS 425.

**NURS 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. COREQ: NURS 424.

**NURS 427 CLINICAL PRECEPTORSHIP (0-9-3)(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: NURS 392. COREQ: NURS 424, NURS 425.

**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. COREQ: for B.S. Prelicensed Option: NURS 424/425. PRE/COREQ: for RN-B.S. Completion Option: UF 300 or NURS 350.

**NURS 430 CURRENT TRENDS IN NURSING (V-0-V)(F,S).** Examines a variety of timely and relevant trends in nursing-related issues and practice. Topics will be rotated to reflect current issues and interest. PREREQ: NURS 392 or PERM/INST.

## Occupational Therapy, Pre-Professional Program — see Department of Community and Environmental Health

## Optometry, Pre-Professional Program — see Department of Community and Environmental Health

## Pharmacy, Pre-Professional Program — see Department of Community and Environmental Health

# Department of Philosophy

*College of Arts and Sciences*

University Annex, 1695 University Drive Phone: (208) 426-3304
E-mail: philosophy@boisestate.edu Fax: (208) 426-4332

*Chair and Associate Professor:* Andrew Cortens. *Professor:* Roark. *Associate Professor:* Crowley, Kierland. *Assistant Professor:* Jackson. *Lecturers:* Pearson, Stockton.

## Degrees Offered

- Bachelor of Arts in Philosophy
- 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, "How should moral decisions be made?" 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 does not in itself prepare the student for a specific vocation. For students who aspire to academic careers in philosophy, the major provides the basis for graduate work in the field. For other students, it develops intellectual skills useful in life and in other fields of advanced study, such as law, religion, and public affairs.

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* |
| Foundational Studies Program requirements indicated in **bold**. See page 50 for details and lists of approved courses. | |
| **ENGL 101** Introduction to College Writing | 3 |
| **ENGL 102** Intro to College Writing and Research | 3 |
| **UF 100** Intellectual Foundations | 3 |
| **UF 200** Civic and Ethical Foundations | 3 |
| **DLM** Mathematics | 3-4 |
| **DLN** Natural, Physical, & Applied Sciences course with lab | 4 |
| **DLN** Natural, Physical, and Applied Sciences course | 3-4 |
| **DLV** Visual and Performing Arts | 3 |
| **DLL** PHIL 101 Knowledge and Reality or<br>**DLL** PHIL 102 Classics of Western Philosophy or<br>**DLL** PHIL 103 Moral Problems | 3 |
| **DLS** Social Sciences course in a first field | 3 |
| **DLS** Social Sciences course in a second field | 3 |
| PHIL 209 Logic and Philosophy | 3 |
| **CID** PHIL 210 Philosophical Writing and Methodology | 3 |
| *Continued* | |

| *Philosophy continued* | |
|---|---|
| Two of the following:<br>PHIL 305 Ancient Greek Philosophy<br>PHIL 307 Medieval Philosophy<br>PHIL 309 Modern Philosophy | 6 |
| Three 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 Moral Philosophy<br>PHIL 313 Analytic Philosophy<br>PHIL 333 Metaphysics<br>PHIL 335 Epistemology | 9 |
| PHIL 437 Advanced Topics | 3 |
| **FF** PHIL 495 Senior Comprehensive Assessment | 1 |
| Upper-division Philosophy electives | 9 |
| Upper-division electives to total 40 credits | 12 |
| Electives to total 120 credits | 38-40 |
| *Total* | 120 |

| Philosophy Minor | |
|---|---|
| *Course Number and Title* | *Credits* |
| PHIL 101 Knowledge and Reality or<br>PHIL 102 Classics of Western Philosophy or<br>PHIL 103 Moral Problems | 3 |
| PHIL 209 Logic and Philosophy | 3 |
| PHIL 210 Philosophical Writing and Methodology | 3 |
| Upper-division philosophy courses other than PHIL 489 | 6 |
| Philosophy course other than PHIL 489 | 3 |
| *Total* | 18 |

## Course Offerings

**See page 63 for a definition of the course-numbering system.**

**PHIL – Philosophy**

**Lower Division**

**PHIL 101 KNOWLEDGE AND REALITY (3-0-3)(F,S)(DLL).** 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 CLASSICS OF WESTERN PHILOSOPHY (3-0-3)(F,S)(DLL).** 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.

**PHIL 103 MORAL PROBLEMS (3-0-3)(F,S)(DLL).** 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 LOGIC AND PHILOSOPHY (3-0-3)(F,S).** An introduction to formal techniques relevant to philosophical thinking, covering propositional, quantificational and some modal logic.

**PHIL 210 PHILOSOPHICAL WRITING AND METHODOLOGY (3-0-3)(F,S)(CID).** Detailed examination of a small number of focused philosophical topics, with an emphasis on improving students as readers and writers of philosophical texts as well as improving their ability to orally communicate philosophical ideas. Will prepare students for upper-division work in philosophy. PREREQ: ENGL 102 (or ENGL 112), PHIL 101 or PHIL 102 or PHIL 103.

**Upper Division**

**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: MATH 187 or 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 210.

**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 209 and PHIL 210.

**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 210.

**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 209 and PHIL 210.

**PHIL 309 MODERN PHILOSOPHY (3-0-3)(F).** A survey of developments in Western philosophy from Descartes through Kant, with emphasis on selected figures. PREREQ: PHIL 210.

**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 209 and PHIL 210.

**PHIL 311 MORAL PHILOSOPHY (3-0-3)(Offered as justified).** An examination of views and issues in meta-ethics and/or normative theory, such as moral realism vs. anti-realism, moral epistemology, moral motivation, utilitarianism, egalitarianism, libertarianism and contractarianism. PREREQ: PHIL 209 and PHIL 210.

**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 209 and PHIL 210.

**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, and at least one CID course in any discipline.

**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: at least one CID course in any discipline.

**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: PHIL 101 or PHIL 102 or PHIL 103, and at least one CID course in any discipline.

**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 209 and PHIL 210.

**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 209 and PHIL 210.

**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 209 and PHIL 210.

**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: at least one CID course in any discipline.

**PHIL 437 ADVANCED PHILOSOPHICAL TOPICS (3-0-3)(F/S).** Detailed examination of a small set of issues within a selected area of philosophy. May be repeated for credit. PREREQ: PHIL 209, PHIL 210 and PERM/INSTR.

**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 101, PHIL 141 or PHIL 101.

**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 101, PHIL 141 or PHIL 101.

**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 101, PHIL 141 or PHIL 101.

**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.

Physical Education—see Department of Kinesiology

Physical Therapy, Pre-Professional Program—see Department of Community and Environmental Health

Physician Assistant, Pre-Professional Program—see Department of Community and Environmental Health

# Department of Physics

*College of Arts and Sciences*

Multipurpose Classroom Facility, Room MP 420 Phone: (208) 426-3775
physics.boisestate.edu Fax: (208) 426-4330
E-mail: physics@boisestate.edu

*Chair and Professor:* C. B. Hanna. *Distinguished Professor:* Alex Punnoose. *Professors:* Kim, Tenne. *Associate Professors:* Macomb, Raghani. *Assistant Professors:* Ferguson, Fologea, Jackson, Simmonds. *Lecturers:* Brennan, Sup, Watkins.

## Degrees Offered

- Bachelor of Science in Physics
  - Applied Physics Emphasis
  - Biophysics Emphasis
  - Secondary Education Emphasis
- Minor in Physics
- Minor in Physical Science Teaching Endorsement
- 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, 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 (B.S.) degree in Physics at Boise State University 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. The following optional emphases are offered for the B.S. Physics degree: Applied Physics (nanomaterials), Biophysics (molecular and cellular), and Secondary Education (teaching).

## Degree Requirements

| Physics<br>Bachelor of Science | |
|---|---|
| *Course Number and Title* | *Credits* |
| Foundational Studies Program requirements indicated in **bold**. See page 50 for details and lists of approved courses. | |
| **ENGL 101** Introduction to College Writing | 3 |
| **ENGL 102** Intro to College Writing and Research | 3 |
| **UF 100** Intellectual Foundations | 3 |
| **UF 200** Civic and Ethical Foundations | 3 |
| **DLM** MATH 170 Calculus I | 4 |
| **DLN** PHYS 211, 211L Physics I with Calculus & Lab | 5 |
| **DLN** PHYS 212, 212L Physics II with Calculus & Lab | 5 |
| **DLV** Visual and Performing Arts | 3 |
| **DLL** Literature and Humanities | 3-4 |
| *Continued* | |

| *Physics continued* | |
|---|---|
| **DLS** ED-CIFS 201 Foundations of Education (Secondary Education Emphasis) or<br>**DLS** Social Sciences course in a first field | 3 |
| **DLS** Social Sciences course in a second field | 3 |
| CHEM 111, 111L-112, 112L General Chemistry I & II & Labs | 8 |
| MATH 175 Calculus II | 4 |
| MATH 275 Multivariable and Vector Calculus | 4 |
| MATH 301 Introduction to Linear Algebra | 3 |
| MATH 333 Differential Equations with Matrix Theory | 4 |
| **CID** PHYS 301 Analog and Digital Electronics | 4 |
| PHYS 309, 309L Introductory Quantum Physics & Lab | 4 |
| PHYS 311 Modern Physics | 3 |
| PHYS 325 Scientific Computing | 4 |
| PHYS 330, 330L Optics and Lab or<br>PHYS 382 Electrodynamics | 4 |
| PHYS 341 Mechanics | 4 |
| PHYS 381 Electromagnetic Theory | 4 |
| PHYS 432 Thermal Physics | 4 |
| **FF** PHYS 499 Physics Seminar | 1 |
| In addition, complete either the following coursework to graduate with a B.S. in Physics (without an emphasis) or complete the courses listed under one of the emphases below to graduate with a B.S. in Physics with an emphasis. | |
| Must choose PHYS 382 Electrodynamics from above | |
| PHYS 412 Intermediate Quantum Mechanics | 4 |
| Choose one 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<br>PHYS 436 Soft Matter | 3-4 |
| Electives to total 120 credits | 18-20 |
| *Total* | 120 |
| **Applied Physics Emphasis** | |
| ENGR 245, 245L Intro to Materials Science & Engineering & Lab | 4 |
| MSE 305 Structure of Materials | 3 |
| MSE 308 Thermodynamics of Materials or<br>MSE 310 Electrical Properties of Materials | 3 |
| PHYS 415 Solid State Physics | 3 |
| PHYS 423 Physical Methods of Materials Characterization | 3 |
| Electives to total 120 credits | 10-11 |
| *Total* | 120 |
| **Astrophysics Emphasis** | |
| PHYS 204 Planetary Astronomy | 4 |
| PHYS 205 Stellar Astronomy | 4 |
| PHYS 405 Astrophysics | 3 |
| PHYS 406 Cosmology | 3 |
| Electives to total 120 credits | 12-13 |
| *Total* | 120 |
| *Continued* | |

| *Physics continued* | |
|---|---|
| **Biophysics Emphasis** | |
| BIOL 191 General Biology I | 4 |
| BIOL 301 Cell Biology | 3 |
| CHEM 301-302 Survey of Organic Chemistry & Lab or CHEM 307, 308 Organic Chemistry I & Lab | 5 |
| CHEM 350 Fundamentals of Biochemistry | 3 |
| PHYS 307 Introduction to Biophysics | 4 |
| PHYS 436 Soft Matter | 3 |
| Electives to total 120 credits | 4-5 |
| *Total* | 120 |
| **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 210 Knowing & Learning in Mathematics & Science | 3 |
| STEM-ED 220 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 |
| PHYS 104 Planets and Astrobiology or PHYS 105 Stars and Cosmology | 4 |
| *Total* | 120-121 |

| Physics Minor | |
|---|---|
| *Course Number and Title* | *Credits* |
| 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 | |
|---|---|
| *Course Number and Title* | *Credits* |
| CHEM 111, 111L-112, 112L General Chemistry I & II & Labs | 8 |
| CHEM 211, 212 Analytical Chemistry I & Lab | 5 |
| PHYS 104 Planets and Astrobiology or PHYS 105 Stars and Cosmology | 4 |
| PHYS 111-112 General Physics | 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 | |
|---|---|
| *Course Number and Title* | *Credits* |
| PHYS 211, 211L Physics I with Calculus & Lab | 5 |
| *Continued* | |

| *Physics Teaching Endorsement Minor continued* | |
|---|---|
| PHYS 212, 212L Physics II with Calculus & Lab | 5 |
| PHYS 301 Analog and Digital Electronics or PHYS 325 Scientific Computing or PHYS 330, 330L Optics and Lab | 4 |
| PHYS 309, 309L Introductory Quantum Physics & Lab | 4 |
| PHYS 311 Modern Physics or 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

**See page 63 for a definition of the course-numbering system.**

**PHYS – Physics**

**PHYSICS LABORATORY FEES: A $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)(DLN).** 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 PLANETS AND ASTROBIOLOGY (3-2-4)(F,S,SU)(DLN).** 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 and/or planetarium visits.

**PHYS 105 STARS AND COSMOLOGY (3-2-4)(F,S,SU)(DLN).** 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)(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 111-112 GENERAL PHYSICS (3-3-4)(F,S,SU)(DLN).** Mechanics, sound, heat, light, magnetism and electricity. This course satisfies the science requirement for the bachelor of arts and bachelor of science curricula and may be taken by forestry, pre-dental and pre-medical students. Recommended background: high school physics or PHYS 101. PREREQ: for PHYS 111: MATH 144 or MATH 147 or satisfactory placement score into MATH 170. PREREQ: for PHYS 112: PHYS 111.

**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 119 LABORATORY ONLY (0-V-1)(F/S).** For transfer students who need a laboratory experience to gain DLN lab credit for a lecture-only PHYS course taken elsewhere but includes a weekly 2 or 3 hour lab at Boise State. (Pass/Fail.) PREREQ: PERM/INST.

**PHYS 204 PLANETARY ASTRONOMY (3-3-4)(F).** Emphasis is on astronomical coordinate systems, Newtonian gravity and planetary motion, contents and evolution of our solar system, the nature and discovery of extrasolar planetary systems, the astronomical requirements for the development of life, and the search for life in the universe. Requires evening labs and/or planetarium visits. Credit cannot be given for both PHYS 104 and PHYS 204. PREREQ: MATH 143 and MATH 144.

**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 and/or planetarium visits. Credit

cannot be given for both PHYS 105 and PHYS 205. PREREQ: MATH 143 and MATH 144.

**PHYS 211 PHYSICS I WITH CALCULUS (4-1-4)(F,S,SU)(DLN with PHYS 211L).** Kinematics, dynamics of particles, statics, momentum, rotational motion, gravitation, introductory wave motion, heat and thermodynamics. Recommended background: high school physics or PHYS 101. PREREQ: MATH 144. COREQ: MATH 170, PHYS 211L.

**PHYS 211L PHYSICS I WITH CALCULUS LAB (0-3-1)(F,S,SU)(DLN with PHYS 211).** Lab to be taken with PHYS 211. Basic experiments in mechanics, wave motion, and heat. COREQ: PHYS 211.

**PHYS 212 PHYSICS II WITH CALCULUS (4-1-4)(F,S,SU)(DLN with PHYS 212L).** Coulombs law, fields, potential, magnetism, induced emf, simple circuits, geometrical optics, interference, diffraction, and polarization. PREREQ: MATH 170, PHYS 211. COREQ: MATH 175, PHYS 212L.

**PHYS 212L PHYSICS II WITH CALCULUS LAB (0-3-1)(F,S,SU)(DLN with PHYS 212).** Lab to be taken concurrently with PHYS 212. Basic experiments in electricity, magnetism, and optics. 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 (2-6-4)(S)(CID).** Exploration of basic electronic test instrumentation and some of the more common discrete semiconductor devices and integrated circuits. Devices such as diodes, silicon controlled rectifiers, transistors, operational and instrumentation amplifiers, voltage regulators, timers, and analog-to-digital converters are utilized in simple electronic circuits for rectification, amplification, waveform creation, and other applications. Effective presentation and interpretation of technical data is stressed through written lab reports and oral communication projects. PREREQ: ENGL 102 (or ENGL 112), PHYS 212L.

**PHYS 307 INTRODUCTION TO BIOPHYSICS (3-3-4)(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: BIOL 191, CHEM 112, MATH 160 or MATH 170, and PHYS 112 or PHYS 212 with labs; or PERM/INST.

**PHYS 309 INTRODUCTORY QUANTUM PHYSICS WITH APPLICATIONS (3-0-3)(F,S).** Key concepts and applications of quantum physics with examples from chemistry, materials science, engineering, applied physics, and nanotechnology. PREREQ: 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 MODERN PHYSICS (3-0-3)(S).** Further topics in modern physics, including introductions to relativity, nuclear physics, elementary particles, and cosmology. PREREQ: PHYS 309.

**PHYS 325 SCIENTIFIC COMPUTING (3-3-4)(F).** Methods and practice of computing and computer modeling with emphasis on science and engineering. Topics include scientific visualization, simulation of complex systems, numerical solutions of systems of differential equations, supercomputing and parallel processing. Computer programming experience required. PREREQ: PHYS 212.

**PHYS 330 OPTICS (3-0-3)(S).** Geometrical and physical optics, including lenses, fiber optics, Fourier optics, polarization, interference, diffraction, lasers, and holography. 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 holography. COREQ: PHYS 330.

**PHYS 341 MECHANICS (4-0-4)(S).** An upper-division course that approaches classical mechanics with the aid of vector calculus and differential equations. Numerical techniques and computer applications will be used. PREREQ: 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 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, galaxy formation, and cosmology. PREREQ: PHYS 309; or PERM/INST.

**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: 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 Schroedinger equation, operators, angular momentum, electron spin, identical particles, perturbations, and variational principle. Applications, such as tunneling, orbitals, magnetic resonance, and nanoscale effects. PREREQ: MATH 301, 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: PHYS 309.

**PHYS 422 ADVANCED TOPICS (1-4 credits)(F/S)(Offered 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: 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: 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: Senior status and PERM/INST.

# Department of Political Science

*School of Public Service*

Environmental Research Building 5146A
http://sspa.boisestate.edu/politicalscience/
E-mail: pols@boisestate.edu
Phone: (208) 426-1458
Fax: (208) 426-4370

*Chair and Professor:* Brian Wampler. *Professors:* Burkhart, Yenor. *Associate Professors:* Hausegger, Vaughn. *Assistant Professors:* Allen, Kettler, Lyons, Touchton, Utych. *Professor Emeritus:* Kinney, Moncrief, Raymond.

## 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 Political Science

## Department Statement

The department offers courses leading to a B.S. degree in political science, with a choice of specified areas of emphasis. The department 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 department, advising and curriculum, faculty, internships, scholarships, and student organizations, please consult http://sspa.boisestate.edu/politicalscience/, the Department of Political Science website.

## 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 department supports professional development credits for courses that do not count toward a B.S. degree and have a pass/fail grade attached. Attendance at such professional development courses is mandatory.

## Degree Requirements

| Political Science<br>Bachelor of Science | |
|---|---|
| *Course Number and Title* | *Credits* |
| Foundational Studies Program requirements indicated in **bold**. See page 50 for details and lists of approved courses. | |
| **ENGL 101** Introduction to College Writing | 3 |
| **ENGL 102** Intro to College Writing and Research | 3 |
| **UF 100** Intellectual Foundations | 3 |
| **UF 200** Civic and Ethical Foundations | 3 |
| **DLM** Mathematics | 3-4 |
| **DLN** Natural, Physical, & Applied Sciences course with lab | 4 |
| **DLN** Natural, Physical, and Applied Sciences course | 3-4 |
| **DLV** Visual and Performing Arts | 3 |
| **DLL** Literature and Humanities | 3-4 |
| **DLS** POLS 101 American National Government | 3 |
| **DLS** Social Sciences course in a second field | 3 |
| **CID** POLS 200 Introduction to Politics | 3 |
| POLS 298 Introduction to Political Inquiry | 3 |
| POLS 398 Advanced Political Science Methods | 3 |
| **FF** POLS 499 Capstone Research Seminar | 3 |
| A student must take three of the following courses:<br>POLS 300 Introduction to American Politics<br>POLS 305 Introduction to Comparative Politics<br>POLS 306 Introduction to International Relations<br>POLS 315 Introduction to Political Thought | 9 |
| Upper-division political science elective courses.<br>(A student may use no more than three credits of POLS 493 and three credits of POLS 494.) | 6 |
| 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). | 12 |
| **American Government and Public Policy Emphasis** | |
| POLS 401 Political Parties, Public Opinion, & Interest Groups<br>POLS 402 Campaigns and Elections<br>POLS 403 Introduction to Public Administration<br>POLS 404 Urban Politics<br>POLS 405 American Chief Executive<br>POLS 406 Legislative Behavior<br>POLS 407 American Policy Process<br>POLS 408 American Political Economy<br>POLS 409 Environmental Politics<br>POLS 410 Public Finance<br>POLS 411 Intergovernmental Relations<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 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<br>POLS 450 Administrative Law | |
| *Continued* | |

| *Political Science continued* | |
|---|---|
| **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 431 Seminar in Contemporary International Relations<br>POLS 432 Civil War and Terrorism<br>POLS 445 International Trade and Investment Law | |
| **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 450 Administrative Law<br>POLS 451 Seminar in Judicial Politics<br>POLS 452 Seminar in Political Philosophy | |
| Upper-division electives to total 40 credits | 7 |
| Electives to total 120 credits | 37-40 |
| *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:

1. Complete a minimum of 30 credits in political science.
2. 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.
3. Complete six credits in U.S. history, six credits of American government, and three credits of comparative government for certification requirements.
4. 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 http://education.boisestate.edu/teachered. Students are expected to meet all knowledge, skill, and dispositional requirements for continued enrollment in the program.
5. 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. Course work 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. Candidates who complete this program demonstrate evidence of meeting the Idaho Beginning Teachers Standards and are eligible for recommendation for state certification.

## Political Science, Social Science, Secondary Education Emphasis Bachelor of Science

| *Course Number and Title* | *Credits* |
|---|---|
| Foundational Studies Program requirements indicated in **bold**. See page 50 for details and lists of approved courses. | |
| **ENGL 101** Introduction to College Writing | 3 |
| **ENGL 102** Intro to College Writing and Research | 3 |
| **UF 100** Intellectual Foundations | 3 |
| **UF 200** Civic and Ethical Foundations | 3 |
| **DLM** Mathematics | 3-4 |
| **DLN** Natural, Physical, & Applied Sciences course with lab | 4 |
| **DLN** Natural, Physical, and Applied Sciences course | 3-4 |
| **DLV** Visual and Performing Arts | 3 |
| **DLL** Literature and Humanities | 3-4 |
| **DLS** ED-CIFS 201 Foundations of Education | 3 |
| **DLS** 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 |
| **FF** ED-CIFS 400 Constructing a Professional Portfolio | 1 |
| 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. | |
| **CID** POLS 200 Introduction to Politics | 3 |
| A student must take three of the following courses:<br>POLS 300 Introduction to American Politics<br>POLS 305 Introduction to Comparative Politics<br>POLS 306 Introduction to International Relations<br>POLS 315 Introduction to Political Thought | 9 |
| Upper-division comparative government elective:<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 | 3 |
| HIST 111-112 United States History or<br>HIST 211-212 Problems in U. S. History | 6 |
| Upper-division political science electives<br>(It is recommended that students consult with a political science advisor when selecting their upper-division courses.) | 12 |
| Social science field other than political science<br>(History will need only 14 additional credits over those already required, Economics and Sociology will require 20 credits) | 14-20 |
| Electives to total 128 credits | 3-12 |
| *Total* | 128 |

| American Government/Political Science Teaching Endorsement | |
|---|---|
| *Course Number and Title* | *Credits* |
| HIST 111-112 United States History or<br>HIST 211-212 Problems in U. S. History | 6 |
| History course | 3 |
| POLS 101 American National Government | 3 |
| POLS 200 Introduction to Politics | 3 |
| POLS 300 Introduction to American Politics | 3 |
| POLS 305 Introduction to Comparative Politics | 3 |
| Upper-division comparative government elective:<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 | 3 |
| Upper-division political science electives<br>(It is recommended that students consult with a political science advisor when selecting their upper-division courses.) | 6 |
| *Total* | 30 |
| See Department of Curriculum, Instruction, and Foundational Studies for more information. | |

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 | |
|---|---|
| *Course Number and Title* | *Credits* |
| POLS 200 Introduction to Politics | 3 |
| A student must take two of the following courses:<br>POLS 300 Introduction to American Politics<br>POLS 305 Introduction to Comparative Politics<br>POLS 306 Introduction to International Relations<br>POLS 315 Introduction to Political Thought | 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.) | 12 |
| *Total* | 21 |

## Course Offerings

**See page 63 for a definition of the course-numbering system.**

**POLS – Political Science**

**Lower Division**

**POLS 101 AMERICAN NATIONAL GOVERNMENT (3-0-3)(F/S)(DLS).** Institutions and processes of the American political system, emphasizing social, ideological, and constitutional background.

**POLS 200 INTRODUCTION TO POLITICS (3-0-3)(F/S)(CID).** Students will confront the key texts in the broad 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 (or ENGL 112).

**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 INTRODUCTION TO AMERICAN POLITICS (3-0-3 )(F/S).** Introduction to institutions, political culture, and political processes throughout the American regime. PREREQ: POLS 200 or PERM/INST.

**POLS 305 INTRODUCTION TO COMPARATIVE POLITICS (3-0-3)(F/S).** Introduction to the cross-national analysis of the structure and functioning of various types of political systems, with special emphasis on the problem of political change. PREREQ: POLS 200; or International Business major or minor, with junior standing or above, or PERM/INST.

**POLS 306 INTRODUCTION TO INTERNATIONAL RELATIONS (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: POLS 200; or International Business major or minor, with junior standing or above, or PERM/INST.

**POLS 315 INTRODUCTION TO POLITICAL THOUGHT (3-0-3)(F/S).** Introduction to the issues that define political thought, such as human nature, the best way of life, and the character of government institutions. PREREQ: 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 401 POLITICAL PARTIES, PUBLIC OPINION, AND INTEREST GROUPS (3-0-3)(F/S).** Examines the functions and importance of political parties, public opinion, and interest groups within the American political system. Considers the organization and activities of political parties and interest groups. PREREQ: POLS 300 and POLS 305 or POLS 306 or POLS 315.

**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 and POLS 305 or POLS 306 or POLS 315.

**POLS 403 INTRODUCTION TO PUBLIC ADMINISTRATION (3-0-3)(F/S).** Theory, administrative organization, functions, and problems of governmental units. PREREQ: POLS 300 and POLS 305 or POLS 306 or POLS 315.

**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 and POLS 305 or POLS 306 or POLS 315.

**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 and POLS 305 or POLS 306 or POLS 315.

**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 and POLS 305 or POLS 306 or POLS 315.

**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 and POLS 305 or POLS 306 or POLS 315.

**POLS 408 AMERICAN POLITICAL ECONOMY (3-0-3)(F/S)(Alternate years).** Focuses on the interface between American politics and economics. Topics include: theories of the capitalist state and society, and different interpretations of American political economy through competing theoretical approaches. PREREQ: POLS 300 and POLS 305 or POLS 306 or POLS 315.

**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 and POLS 305 or POLS 306 or POLS 315 or Environmental Studies major or minor, junior standing or above or PERM/INST.

**POLS 410 (ECON 410) PUBLIC FINANCE (3-0-3)(F).** 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: Admission to COBE or B.A. Economics major or B.A. Economics, Social Science, Secondary Education major or Health Science Studies major, ECON 201 and ECON 202 or PERM/INST.

**POLS 411 INTERGOVERNMENTAL RELATIONS (3-0-3)(F/S).** Interunit cooperation and conflict in the American federal system, including state-local relationships and metropolitan dispersion and integration. PREREQ: POLS 300 and POLS 305 or POLS 306 or POLS 315.

**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 sociological organizational theory. May be taken for POLS or SOC credit, but not for both. 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 and POLS 305 or POLS 306 or POLS 315 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, and POLS 305 or POLS 306 or POLS 315.

**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, and POLS 305 or POLS 306 or POLS 315.

**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 305 and POLS 306; or International Business major or minor, with junior standing or above.

**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 305 and POLS 306; or International Business major or minor, with junior standing or above.

**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 and POLS 306; or International Business major or minor, with junior standing or above.

**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 and POLS 306; or International Business or Latin American and Latino/a Studies program, 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, and POLS 300 or POLS 306 or POLS 315; or International Business major or minor, with junior standing or above, or PERM/INST.

**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 and POLS 306; or International Business 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 and POLS 306; or International Business major or minor, with junior standing or above.

**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 and POLS 306; or International Business major or minor, with junior standing or above.

**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 and POLS 306; or International Business major or minor, with junior standing or above.

**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 and POLS 306; or International Business major or minor, with junior standing or above.

**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 305 and POLS 306.

**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 305 and POLS 306.

**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 305 and POLS 306; or International Business major or minor, with junior standing or above.

**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 315 and POLS 300 or POLS 305 or POLS 306.

**POLS 441 (PHIL 441) CLASSICAL POLITICAL THOUGHT (3-0-3) (F/S).** Development of political philosophy from Socrates to Machiavelli. May be taken for either POLS or PHIL credit, but not both. PREREQ: POLS 315 and POLS 300 or POLS 305 or POLS 306.

**POLS 442 (PHIL 442) MODERN POLITICAL THOUGHT (3-0-3)(F/S).** Development of political thought since Machiavelli. May be taken for either POLS or PHIL credit, but not both. PREREQ: POLS 315 and POLS 300 or POLS 305 or POLS 306.

**POLS 443 (PHIL 443) CONTEMPORARY POLITICAL THOUGHT (3-0-3)(F/S).** 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 and POLS 300 or POLS 305 or POLS 306.

**POLS 445 (INTBUS 445) INTERNATIONAL TRADE AND INVESTMENT LAW (3-0-3)(S).** 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 investment. 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. PREREQ: Admission to COBE, senior/graduate standing, or POLS 305 and POLS 306, or PERM/INST.

**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 and POLS 315 or POLS 305 or POLS 306.

**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 and POLS 305 or POLS 306 or POLS 315.

**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 and POLS 305 or POLS 306 or POLS 315.

**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 and POLS 305 or POLS 306 or POLS 315.

**POLS 450 ADMINISTRATIVE LAW (3-0-3)(F/S).** Sources of power and duties of administrative agencies, rules and regulations made by agencies through investigation and hearings, judicial decisions and precedents relating to administrative activities. PREREQ: POLS 300 and POLS 403 or POLS 446 or POLS 447.

**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, and POLS 305 or POLS 306 or POLS 315.

**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, and POLS 305 or POLS 306 or POLS 315.

**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-Forestry and Pre-Wildlife Management—see Department of Biological Sciences

# Pre-Law Advising

Non-business majors: John McGuire
Riverfront Hall, Suite 117
Phone: (208) 426-2663
http://sspa.boisestate.edu/advising/prelaw/

Business majors: Susan Park
E-mail: spark@boisestate.edu
Phone: (208) 426-3070

Boise State University does not prescribe a pre-law curriculum; therefore, students' plans should be based on the students' interests and objectives in studying law. In general, the pre-law student 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, linguistics, natural science, 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 aterial 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 for those students considering a legal career.

Pre-Professional Programs:
- Pre-Chiropractic
- Pre-Clinical Laboratory Science
- Pre-Dental,
- Pre-Dietetics
- Pre-Medical Studies
- Pre-Occupational Therapy,
- Pre-Optometry, Pharmacy
- Pre-Physical Therapy,
- Pre-Physician Assistant
- Pre-Speech-Language Pathology,
- Pre-Veterinary
  —see Department of Community and Environmental Health

# Department of Psychology

*College of Arts and Sciences*

Education Building, Room 629
http://psychology.boisestate.edu/
E-mail: psychology@boisestate.edu
Phone: (208) 426-1207
Fax: (208) 426-4386

*Chair and Professor:* Roberto Refinetti. *Professors:* Honts, Landrum, Pritchard, Seibert. *Assistant Professors:* Campbell, Genuchi, Hardy, Weaver. *Lecturers:* Henderson, Taylor. *Emeritus:* Elison-Bowers.

## 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 Psychology, confers a baccalaureate degree in psychology. Because of the core requirements for all candidates, this is regarded as a degree in general psychology, though some latitude is allowed within the framework set by those requirements. 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 the 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.

Students planning a career of counseling in the schools should major either in elementary education or in some subject matter area that includes a secondary education option. Psychology courses often are explicitly prescribed parts of such programs; additional courses may be taken as electives.

## 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<br>Bachelor of Science | |
|---|---|
| *Course Number and Title* | *Credits* |
| Foundational Studies Program requirements indicated in **bold**. See page 50 for details and lists of approved courses. | |
| **ENGL 101** Introduction to College Writing | 3 |
| **ENGL 102** Intro to College Writing and Research | 3 |
| **UF 100** Intellectual Foundations | 3 |
| **UF 200** Civic and Ethical Foundations | 3 |
| **DLM** Mathematics | 3-4 |
| **DLN** BIOL 227 Human Anatomy and Physiology | 4 |
| **DLN** Natural, Physical, and Applied Sciences course | 3-4 |
| **DLV** Visual and Performing Arts | 3 |
| **DLL** Literature and Humanities | 3-4 |
| **DLS** Social Sciences course in a first field | 3 |
| *Continued* | |

| *Psychology continued* | |
|---|---|
| **DLS** Social Sciences course in a second field | 3 |
| BIOL 228 Human Anatomy and Physiology | 4 |
| PSYC 101 General Psychology | 3 |
| PSYC 120 Introduction to the Psychology Major | 2 |
| PSYC 295 Statistical Methods | 3 |
| **CID** PSYC 321 Research Methods | 4 |
| **FF** PSYC 487 Capstone Perspectives: History and Systems | 3 |
| One course chosen from the Individual Differences cluster:<br>PSYC 219 Cross-Cultural Psychology<br>PSYC 229 Psychology of Gender<br>PSYC 271 Human Relationships<br>PSYC 290 The Psychology of Eating | 3 |
| One course chosen from the Quantitative Methods cluster:<br>PSYC 405 Advanced Statistical Methods<br>PSYC 421 Psychological Measurement | 3 |
| One course chosen from the Basic Experimental cluster:<br>PSYC 335 Biological Bases of Behavior<br>PSYC 343 Cognitive Psychology<br>PSYC 441 Learning | 3 |
| One 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 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 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 **DLM** requirements. | 3-5 |
| Upper-division electives to total 40 credits | 14-18 |
| Electives to total 120 credits | 23-32 |
| *Total* | 120 |

| Psychology Minor | |
|---|---|
| *Course Number and Title* | *Credits* |
| PSYC 101 General Psychology | 3 |
| PSYC 295 Statistical Methods or<br>MATH 254 Introduction to Statistics | 3 |
| Four 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 |

| Psychology Teaching Endorsement | |
|---|---|
| *Course Number and Title* | *Credits* |
| PSYC 101 General 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

**See page 63 for a definition of the course-numbering system.**

**PSYC – Psychology**

**Lower Division**

**PSYC 101 GENERAL PSYCHOLOGY (3-0-3)(F,S)(DLS).** Provides the basis for understanding psychological science. Topics considered may include: scientific method, biopsychology, consciousness, sensation, perception, development, learning, cognitive processes, motivation, emotion, health psychology, personality, individual differences, social psychology, psychopathology, and psychotherapy.

**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 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)(CID).** 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 (or ENGL 112), PSYC 120, PSYC 295, upper-division standing.

**PSYC 331 THE PSYCHOLOGY OF HEALTH (3-0-3)(F/S).** Principles that have emerged from the experimental analysis of behavior will be examined. The principles include, but are not limited to, operant and classical conditioning. The course will deal with applications of these principles to the understanding and change of phobias, obesity, smoking, alcoholism, aberrant sexual behavior, and similar problems. 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, PSYC 321, 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 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 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. This course may be taken for either psychology or sociology credit, but not both. A course in statistics or research design is strongly recommended. PREREQ: PSYC 101 or SOC 101, 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 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. 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.

Public Administration — see Department of Political Science

Public Law and Political Philosophy — see Department of Political Science

Public Relations Certificate — see Department of Communication

# Department of Radiologic Sciences

*College of Health Sciences | School of Allied Health Sciences*

Health Science Riverside Building
http://hs.boisestate.edu/radsci
E-mail: radsci@boisestate.edu
Phone: (208) 426-1996
Fax: (208) 426-4459

*Chair, Diagnostic Radiography Program Director and Associate Professor:* Leslie Kendrick. *Sonography Program Director and Associate Professor:* Joie Burns. *Interim CT Program Director and Assistant Professor:* Darlene Travis. *Assistant Clinical Professor:* Erica Wight.

## Degree Offered

- 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 Radiography (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 Radiography 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; 1361 Park Street; Clearwater, FL 33756. Phone: (727) 210-2350; Fax: (727) 210-2354; www.caahep.org.

## 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, 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, http://hs.boisestate.edu/radsci, 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 BSU. 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 letters of reference, copies of all transcripts and resume (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 Introduction to College Writing
   - ENGL 102 Introduction to College Writing and Research
   - MATH 143 College Algebra or MATH 170 Calculus I or ACT of 27
   - MATH 254 Introduction To Statistics
   - BIOL 227-228 Anatomy and Physiology
   - HLTHST 101 Medical Terminology
   - CHEM 101/L Essentials of Chemistry I OR CHEM 111/111L General Chemistry I
   - 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 letters of reference, copies of all transcripts and resume (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 Introduction to College Writing
   - ENGL 102 Introduction to College Writing and Research
   - MATH 143 College Algebra
   - BIOL 227-228 Anatomy and Physiology
   - HLTHST 101 Medical Terminology
   - CHEM 101/L Essentials of Chemistry I OR CHEM 111/111L General Chemistry I
   - 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 Introduction to College Writing
   - ENGL 102 Introduction to College Writing and Research
   - MATH 143 College Algebra or MATH 170 Calculus I or ACT of 27
   - BIOL 227-228 Anatomy and Physiology
   - HLTHST 101 Medical Terminology
   - CHEM 101/L Essentials of Chemistry I OR CHEM 111/111L General Chemistry I
   - SOC 101 Introduction to Sociology or PSYC 101 General Psychology
   - Three credits of either DLV or DLL
   - Documented computer competency for word processing (Word), spreadsheets (Excel), and databases (Access)
4. Attend a personal interview, if invited.

**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 letters of reference, copies of all transcripts and resume (see department website for more details)
4. Completed or in process of completing pre-professional curriculum
   - ENGL 101 Introduction to College Writing
   - ENGL 102 Introduction to College Writing and Research
   - MATH 143 College Algebra or MATH 170 Calculus I or ACT of 27
   - MATH 254 Introduction To Statistics
   - BIOL 227-228 Anatomy and Physiology
   - HLTHST 101 Medical Terminology
   - CHEM 101/L Essentials of Chemistry I OR CHEM 111/111L General Chemistry I
   - Documented computer competency for word processing (Word), spreadsheets (Excel), and databases (Access)
   - PHYS 101 Introduction 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 (http://hs.boisestate.edu/radsci) 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 www.ARRT.org and/or the ARDMS website 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

| Radiologic Sciences<br>Bachelor of Science | |
|---|---|
| *Course Number and Title* | *Credits* |
| Foundational Studies Program requirements indicated in **bold**. See page 50 for details and lists of approved courses. | |
| **ENGL 101** Introduction to College Writing | 3 |
| **ENGL 102** Intro to College Writing and Research | 3 |
| **UF 100** Intellectual Foundations | 3 |
| **UF 200** Civic and Ethical Foundations | 3 |
| **DLM** Mathematics | below |
| **DLN** BIOL 227 Human Anatomy and Physiology | 4 |
| **DLN** CHEM 101, 101L or CHEM 111, 111L Chemistry with Lab | 4 |
| **DLV** Visual and Performing Arts | 3 |
| **DLL** Literature and Humanities | 3-4 |
| **DLS** Social Sciences course in a first field | below |
| *Continued* | |

| *Radiologic Sciences continued* | |
|---|---|
| **DLS** Social Sciences course in a second field | below |
| BIOL 228 Human Anatomy and Physiology | 4 |
| BUSCOM 201 Business Communication | 3 |
| HLTHST 101 Medical Terminology | 3 |
| HLTHST 202 Health Delivery Systems | 3 |
| HLTHST 300 Pathophysiology | 4 |
| **FF** HLTHST 400 Interprofessional Capstone | 1 |
| HLTHST 431 Quality Issues in Healthcare | 3 |
| Area of Emphasis: Students complete an emphasis in Computed Tomography, Diagnostic Medical Sonography, Diagnostic Radiology, General Studies, or Magnetic Resonance Imaging. Each area of emphasis has specific requirements that are listed below. | |
| **Computed Tomography Emphasis** | |
| Credentialed Radiographer matriculated from a regionally accredited institution; credit for prior learning. | 25 |
| **CID** HLTHST 382 Research Methods in Health or **CID** RADSCI 340 Radiographic Quality Assurance | 3 |
| **DLM** MATH 254 Introduction to Statistics | 3 |
| **DLS** PSYC 101 General Psychology or SOC 101 Intro to Sociology | 3 |
| **DLS** Social Sciences course in a second field | 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 | 15 |
| Electives to total 120 credits | 2-7 |
| *Total* | 120 |
| **Diagnostic Medical Sonography Emphasis** | |
| Credentialed clinically-based Health Care Provider matriculated from a regionally accredited institution (AS/AAS degree minimum); credit for prior learning. | 25 |
| **DLM** MATH 143 College Algebra | 3 |
| **DLS** PSYC 101 General Psychology or SOC 101 Intro to Sociology | 3 |
| **DLS** Social Sciences course in a second field | 3 |
| HLTHST 432 Critical Review of Health Care Research | 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 |
| *Continued* | |

| *Radiologic Sciences continued* | |
|---|---|
| **CID** 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 |
| *Total* | 121-124 |
| **Diagnostic Radiology Emphasis** | |
| **DLM** MATH 254 Introduction to Statistics | 3 |
| **DLS** PSYC 101 General Psychology | 3 |
| **DLS** SOC 101 Introduction to Sociology | 3 |
| **CID** HLTHST 382 Research Methods in Health or **CID** RADSCI 340 Radiographic Quality Assurance | 3 |
| HLTHST 433 Death and Dying: a Modern Conundrum or HLTHST 314 Health Law and Ethics | 2-3 |
| HRM 305 Human Resource Management | 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 211 Laboratory Practicum | 1 |
| RADSCI 221 Laboratory Practicum | 1 |
| RADSCI 222 Radiographic Positioning I | 3 |
| RADSCI 225 Introduction to Computed Radiography and Fluoroscopy | 2 |
| RADSCI 226 Analog Imaging and Image Evaluation | 2 |
| RADSCI 227 Radiographic Technical Laboratory | 1 |
| RADSCI 234 Introduction to Radiography Clinical Experience | 1 |
| RADSCI 242 Radiographic Positioning II | 3 |
| RADSCI 285 Radiologic Sciences Clinical Experience | 2 |
| RADSCI 300 Digital Radiography and Advanced Imaging Applications | 2 |
| RADSCI 310 Pharmacology and Contrast Medias | 1 |
| RADSCI 311 Radiobiology and Protection | 2 |
| RADSCI 313 Fluoroscopic and Contrast Media Examinations | 2 |
| RADSCI 330 Introduction to Sectional Anatomy | 1 |
| RADSCI 338 Information Technology in Radiologic Sciences | 1 |
| RADSCI 350 Imaging Pathophysiology | 3 |
| *Continued* | |

| *Radiologic Sciences continued* | |
|---|---|
| RADSCI 370 Junior Recitation and Integration | 1 |
| RADSCI 375 Radiologic Sciences Clinical Experience | 4 |
| RADSCI 376 Radiologic Sciences Clinical Experience | 4 |
| RADSCI 385 Radiologic Sciences Clinical Experience | 6 |
| RADSCI 392 Radiologic Colloquium | 1 |
| RADSCI 405 & RADSCI 425 or RADSCI 406 & RADSCI 426 Radiologic Sciences Clinical Experience | 8 |
| RADSCI 410 Health Promotion and Leadership | 2 |
| RADSCI 420 Senior Recitation and Integration | 1 |
| *Total* | 124-130 |
| **Magnetic Resonance Imaging Emphasis** | |
| Credentialed clinically-based Health Care Provider matriculated from a regionally accredited institution (AS/AAS degree minimum); credit for prior learning. | 25 |
| **DLM** MATH 254 Introduction to Statistics | 3 |
| **DLS** PSYC 101 General Psychology or SOC 101 Intro to Sociology | 3 |
| **DLS** Social Sciences course in a second field | 3 |
| **CID** HLTHST 382 Research Methods in Health or **CID** RADSCI 340 Radiographic Quality Assurance | 3 |
| MATH 143 College Algebra or MATH 170 Calculus I or ACT score of 27 | 0-4 |
| PHYS 101 Introduction to Physics or 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 Magnetic Resonance Imaging 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 Magnetic Resonance Imaging II | 1 |
| RADSCI 445 Clinical Experience in Magnetic Resonance Imaging I | 4 |
| RADSCI 446 Clinical Experience in Magnetic Resonance Imaging II | 4 |
| Upper-division electives to total 40 credits | 1 |
| Electives to total 120 credits | 4-11 |
| *Total* | 120 |
| 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. (see 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.

| Certificate in Computed Tomography | |
|---|---|
| *Course Number and Title* | *Credits* |
| HLTHST 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 |

| Certificate in Diagnostic Medical Sonography | |
|---|---|
| *Course Number and Title* | *Credits* |
| HLTHST 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 |

| Certificate in Magnetic Resonance Imaging | |
|---|---|
| *Course Number and Title* | *Credits* |
| HLTHST 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 Magnetic Resonance Imaging 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 Magnetic Resonance Imaging II Lab | 1 |
| RADSCI 443 Procedural Case Studies in Magnetic Resonance Imaging II | 1 |
| RADSCI 445 Clinical Experience in Magnetic Resonance Imaging I | 4 |
| RADSCI 446 Clinical Experience in Magnetic Resonance Imaging II | 4 |
| *Total* | 26 |

## Course Offerings

**See page 63 for a definition of the course-numbering system.**

Only students officially admitted to one of the Radiologic Sciences programs may take RADSCI courses without permission of the instructor.

**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 211 LABORATORY PRACTICUM (0-3-1)(F).** Laboratory demonstration and practice of the radiographic positions and procedures discussed in RADSCI 222. COREQ: RADSCI 222.

**RADSCI 221 LABORATORY PRACTICUM (0-3-1)(S).** Laboratory demonstration and practice of the radiographic positions and procedures discussed in RADSCI 242.

**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 211.

**RADSCI 225 INTRODUCTION TO COMPUTED RADIOGRAPHY AND FLUOROSCOPY (2-0-2)(S).** Introduction to fluoroscopic equipment and theory and application of computed processing in relation to scintillation as used in computed radiography for digital image application. COREQ: RADSCI 227.

**RADSCI 226 ANALOG IMAGING AND IMAGE EVALUATION (1-3-2)(F).** The factors affecting exposure values, fog, scatter, density, contrast, detail and distortion will be evaluated during image analysis for all aspects of analog imaging. COREQ: RADSCI 222.

**RADSCI 227 RADIOGRAPHIC TECHNICAL LABORATORY (0-3-1)(S).** Laboratory experience applying the principles of x-ray machine operation for image analysis in digital and fluoroscopic applications. PREREQ: RADSCI 225.

**RADSCI 234 INTRODUCTION TO RADIOGRAPHY CLINICAL EXPERIENCE (1-0-1)(S).** Introduction to clinical agency structure, health law and ethics, professionalism and initial clinical practice. Professional observation required. PREREQ: 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 221.

**RADSCI 285 RADIOLOGIC SCIENCES CLINICAL EXPERIENCE (0-8-2)(S).** Supervised clinical experience. (Pass/Fail). PREREQ: RADSCI 104.

**Upper Division**

**RADSCI 300 DIGITAL RADIOGRAPHY AND ADVANCED IMAGING APPLICATIONS (2-0-2)(F).** Analysis of the production and manipulation of digital radiographic image using direct and indirect acquisition processes, as well as in-depth analysis of all factors affecting the acquisition processes with primary emphasis on problem solving, critical thinking, and reasoning. PREREQ: RADSCI 225, RADSCI 226.

**RADSCI 306 PROFESSIONALISM AND RESEARCH IN IMAGING SCIENCES (1-0-1)(F/S).** 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 medical imaging major.

**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 (2-0-2)(F,S,SU).** Principles and concepts underlying the biological effects of radiation and federal/state/international radiation protection standards. PREREQ: RADSCI major or admission to imaging sciences 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 330 INTRODUCTION TO SECTIONAL ANATOMY (1-0-1)(S).** Identification of sectional anatomy utilizing various acquisition modes and modalities. PREREQ: BIOL 228.

**RADSCI 338 INFORMATION TECHNOLOGY IN RADIOLOGIC SCIENCES (1-0-1)(F/S).** 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 225 or admission to imaging sciences major.

**RADSCI 340 RADIOGRAPHIC QUALITY ASSURANCE (3-0-3)(S) (CID).** Theory and application of quality assurance techniques for radiographic equipment utilizing various quality assurance instruments. Discipline-specific communication activities are included. PREREQ: ENGL 102 (or ENGL 112), RADSCI 300.

**RADSCI 350 IMAGING PATHOPHYSIOLOGY (3-0-3)(S/SU).** 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 or admission to imaging sciences major.

**RADSCI 370 JUNIOR RECITATION AND INTEGRATION (0-2-1)(F).** Critical radiographic image analysis with emphasis on image quality, patient safety, imaging policies and procedures. (Pass/Fail). 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)(F,SU).** Supervised clinical experience. PREREQ: RADSCI 375.

**RADSCI 385 RADIOLOGIC SCIENCES CLINICAL EXPERIENCE (0-24-6)(F/S).** 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 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/SU).** Analysis of considerations related to preventative health care measures. Particular emphasis on related imaging procedures and advancement of public awareness. PREREQ: RADSCI 313 or admission to imaging sciences major.

**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 426 RADIOLOGIC SCIENCES CLINICAL EXPERIENCE (0-8-2)(SU).** Supervised clinical experience. Terminal clinical competency will be validated. PREREQ: RADSCI 406.

**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).** 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. PREREQ: or 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)(CID).** Sonographic examination performance and critical analysis of the normal, anomolous and pathologic gravid and non-gravid female pelvis. PREREQ: ENGL 102 (or ENGL 112), 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.

Refugee Services—see Department of Social Work
Refugee Studies—see Department of History

# Department of Respiratory Care

*College of Health Sciences | School of Allied Health Sciences*

Health Sciences Riverside, Room 207 Phone: (208) 426-3383
http://hs.boisestate.edu/respcare Fax: (208) 426-4093
E-mail: cdudley@boisestate.edu

*Chair and Associate Professor:* Jody Lester. *Director of Clinical Education and Associate Professor:* Jeffrey M. Anderson. *Medical Director:* William Dittrich, M.D. *Professor:* Ashworth. *Assistant Professors:* Haan, Wing. *Clinical Assistant Professor:* Spurny.

## 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 Completion 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, 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

1. Pre-professional Year (Freshman Year)
   See Chapter 3—Admissions, for admission policies.
2. Professional Program (Sophomore Year - Senior Year)
   A. 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.
   B. 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

1. Pre-professional Year (Freshman Year)
   See Chapter 3—Admissions, for admission policies.
2. Professional Program (Sophomore Year - Senior Year)
   A. 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.
   B. Applicants may be required to have an interview during the spring semester of the pre-professional year. Contact the department chair for specific dates.
   C. 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.
   D. 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.

A. Students must earn at least a C- in every biology, health science, mathematics, chemistry, and respiratory care course.
B. A grade of less than a C- in any professional course (HLTHST, 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 300; the advisor must be contacted to ensure the proper section of UF 300.

## Degree Requirements

| Respiratory Care<br>Bachelor of Science | |
|---|---|
| *Course Number and Title* | *Credits* |
| Foundational Studies Program requirements indicated in **bold**. See page 50 for details and lists of approved courses. | |
| ****ENGL 101** Introduction to College Writing | 3 |
| ****ENGL 102** Intro to College Writing and Research | 3 |
| ****UF 100** Intellectual Foundations | 3 |
| **UF 200** Civic and Ethical Foundations | 3 |
| ****DLM** Mathematics | 3-4 |
| ****DLN** BIOL 227 Human Anatomy and Physiology | 4 |
| ****DLN** CHEM 101, 101L Essentials of Chemistry I & Lab | 4 |
| ****DLV** Visual and Performing Arts | 3 |
| **DLL** Literature and Humanities | 3-4 |
| ****DLS** Social Sciences course in a first field | 3 |
| **DLS** Social Sciences course in a second field | 3 |
| **BIOL 228 Human Anatomy and Physiology | 4 |
| **HLTHST 101 Medical Terminology | 3 |
| HLTHST 220 Cardiopulmonary Renal Physiology | 3 |
| **FF** HLTHST 400 Interprofessional Capstone | 1 |
| HLTHST 432 Critical Review of Health Care Research | 3 |
| RESPCARE 104 Patient Assessment | 1 |
| RESPCARE 105 Interprofessional Patient Care Skills Lab | 2 |
| RESPCARE 200 Recitation and Application I | 1 |
| RESPCARE 203 Respiratory Care Theory I | 3 |
| *Continued* | |

| *Respiratory Care continued* | |
|---|---|
| RESPCARE 204 Respiratory Care Laboratory I | 2 |
| RESPCARE 208 Clinical Practicum I | 2 |
| RESPCARE 219 Introduction to Research | 1 |
| RESPCARE 221 ECG Interpretation | 1 |
| RESPCARE 223 Respiratory Care Theory II | 3 |
| RESPCARE 224 Respiratory Care Laboratory II | 2 |
| RESPCARE 228 Clinical Practicum II | 4 |
| RESPCARE 229 Diseases and Diagnostics I | 3 |
| RESPCARE 250 Recitation and Application II | 1 |
| RESPCARE 255 Respiratory Rounds | 1 |
| RESPCARE 300 Recitation and Application III | 1 |
| RESPCARE 301 Principles of Pharmacotherapeutics | 2 |
| RESPCARE 302 General Pathology | 2 |
| RESPCARE 303 Respiratory Care Theory III | 3 |
| RESPCARE 304 Respiratory Care Laboratory III | 2 |
| RESPCARE 308 Clinical Practicum III | 5 |
| RESPCARE 323 Respiratory Care Theory IV | 3 |
| RESPCARE 324 Respiratory Care Laboratory IV | 1 |
| RESPCARE 328 Clinical Practicum IV | 5 |
| RESPCARE 329 Diseases and Diagnostics II | 3 |
| RESPCARE 350 Recitation and Application IV | 1 |
| **CID** RESPCARE 355 Professional Communication in Health Care | 3 |
| RESPCARE 440 Senior Theory: Advanced Concepts | 3 |
| Three or more 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 493 Respiratory Care Internship<br>RESPCARE 498 Senior Seminar | 9 |
| Electives to total 120 credits | 0-1 |
| *Total* | 120-122 |
| **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 University.

To be admitted to the senior year in respiratory care each student must meet the following criteria:

1. 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,
2. Passed the necessary examinations to be credentialed as a Registered Respiratory Therapist (RRT) by the National Board for Respiratory Care (NBRC) and,
3. Have permission of the department chair.

| Respiratory Care<br>Bachelor of Science | |
|---|---|
| *Course Number and Title* | *Credits* |
| Foundational Studies Program requirements indicated in **bold**. See page 50 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 |
| **UF 300** Transfer Foundations | 3 |
| **FF** HLTHST 400 Interprofessional Capstone | 1 |
| HLTHST 432 Critical Review of Health Care Research | 3 |
| **CID** RESPCARE 355 Professional Communication in Health Care | 3 |
| RESPCARE 431 Quality Improvement in Health Care | 3 |
| RESPCARE 440 Senior Theory: Advanced Concepts | 3 |
| RESPCARE 441 Teaching Techniques for Health Care Professionals | 3 |
| RESPCARE 442 Sleep Medicine | 3 |
| RESPCARE 443 Current Topics in Respiratory Disease | 3 |
| RESPCARE 444 Leadership & Mgt for Health Care Professionals | 3 |
| RESPCARE 498 Senior Seminar | 2 |
| *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 University.

To be admitted to the senior year in respiratory care each student must meet the following criteria:

1. 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,
2. Passed the necessary examinations to be credentialed as a Registered Respiratory Therapist (RRT) by the National Board for Respiratory Care (NBRC) and,
3. Have permission of the department chair.

| Respiratory Care<br>Bachelor of Science | |
|---|---|
| *Course Number and Title* | *Credits* |
| Foundational Studies Program requirements indicated in **bold**. See page 50 for details and lists of approved courses. | |
| **ENGL 101** Introduction to College Writing | 3 |
| **ENGL 102** Intro to College Writing and Research | 3 |
| **UF 300** Transfer Foundations | 3 |
| **DLM** Mathematics | 3-4 |
| **DLN** BIOL 227 Human Anatomy and Physiology | 4 |
| **DLN** CHEM 101, 101L Essentials of Chemistry I & Lab | 4 |
| **DLV** Visual and Performing Arts | 3 |
| **DLL** Literature and Humanities | 3-4 |
| **DLS** Social Sciences course in a first field | 3 |
| **DLS** Social Sciences course in a second field | 3 |
| Successful completion of Associate of Applied Science or Associate of Health Science, Respiratory Care | 35 |
| *Continued* | |

| *Respiratory Care continued* | |
|---|---|
| Upper-division challenge credits for passing NBRC RRT Examinations | 26 |
| **FF** HLTHST 400 Interprofessional Capstone | 1 |
| HLTHST 432 Critical Review of Health Care Research | 3 |
| **CID** RESPCARE 355 Professional Communication in Health Care | 3 |
| RESPCARE 431 Quality Improvement in Health Care | 3 |
| RESPCARE 440 Senior Theory: Advanced Concepts | 3 |
| RESPCARE 441 Teaching Techniques for Health Care Professionals | 3 |
| RESPCARE 442 Sleep Medicine | 3 |
| RESPCARE 443 Current Topics in Respiratory Disease | 3 |
| RESPCARE 444 Leadership & Mgt for Health Care Professionals | 3 |
| RESPCARE 498 Senior Seminar | 2 |
| *Total* | 120-124 |

**Baccalaureate Degree Curriculum** for students who earned an Associate of Science Degree in Respiratory Care (or Respiratory Therapy) from Boise State University.

To be admitted to the senior year in respiratory care each student must meet the following criteria:

1. Earned an academic Associate of Science Degree in Respiratory Care (or Respiratory Therapy) from Boise State University,
2. Passed the necessary examinations to be credentialed as a Registered Respiratory Therapist (RRT) by the National Board for Respiratory Care (NBRC), and
3. Have permission of the department chair.

| Respiratory Care<br>Bachelor of Science | |
|---|---|
| *Course Number and Title* | *Credits* |
| Foundational Studies Program requirements indicated in **bold**. See page 50 for details and lists of approved courses. | |
| Successful completion of Associate of Science, Respiratory Care (or Respiratory Therapy) from Boise State University. | 103 |
| **UF 300** Transfer Foundations | 3 |
| **FF** HLTHST 400 Interprofessional Capstone | 1 |
| HLTHST 432 Critical Review of Health Care Research | 3 |
| **CID** RESPCARE 355 Professional Communication in Health Care | 3 |
| RESPCARE 440 Senior Theory: Advanced Concepts | 3 |
| Two 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 498 Senior Seminar | 5-6 |
| *Total* | 121-122 |

## Course Offerings

**See page 63 for a definition of the course-numbering system.**

**RESPCARE – Respiratory Care**

**Lower Division**

**RESPCARE 104 PHYSICAL 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: RESPCARE 105.

**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.) COREQ: RESPCARE 104.

**RESPCARE 200 RECITATION AND APPLICATION I (1-0-1)(F).** Review, discussion, and application of information presented in theory and lab with reference to clinical situations. COREQ: RESPCARE 203, RESPCARE 204, RESPCARE 208.

**RESPCARE 203 RESPIRATORY CARE THEORY I (3-0-3)(F).** Medical gas therapy to include clinical gases, gas mixtures, and various equipment. Theory and technique of aerosol and humidification therapy. Basic concepts of microbiology, cardiopulmonary resuscitation, medical terminology and respiratory care practice. COREQ: RESPCARE 200, RESPCARE 204, RESPCARE 208.

**RESPCARE 204 RESPIRATORY CARE LABORATORY I (1-2-2)(F).** Medical gas techniques. COREQ: RESPCARE 200, RESPCARE 203, RESPCARE 208.

**RESPCARE 208 CLINICAL PRACTICUM I (0-6-2)(F).** Experience in the hospital with patients, techniques, and equipment. Emphasis on use of medical gases. COREQ: RESPCARE 200, RESPCARE 203, RESPCARE 204.

**RESPCARE 219 INTRODUCTION TO RESEARCH (1-0-1)(S).** Introduction to the methods of scientific research including an overview of the research process, components of a research paper, developing research questions, framing an hypothesis, performing a literature search, designing a research project, writing an abstract. PREREQ: RESPCARE 203.

**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 THEORY II (3-0-3)(S).** Principles, application, and equipment used for hyperinflation therapy. Therapeutic techniques and applications of chest physiotherapy. Introduction to long-term mechanical ventilation. PREREQ: RESPCARE 203. COREQ: RESPCARE 224, RESPCARE 228, RESPCARE 250.

**RESPCARE 224 RESPIRATORY CARE LABORATORY II (1-2-2)(S).** Use of hyperinflation therapy devices, chest physiotherapy, and 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 DISEASES AND DIAGNOSTICS I (3-0-3)(S).** Students will be provided with foundational knowledge regarding common diseases, and the gathering and interpretation of laboratory tests, radiographic images and cardiopulmonary diagnostics. Case studies/problem based learning will be used to produce students who can gather and synthesize information for comprehensive practice of respiratory care. PREREQ: HLTHST 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.

**RESPCARE 255 RESPIRATORY ROUNDS (1-0-1)(S).** First-year students participate in a seminar led by faculty and upper-division students. Topics include disease reviews (including etiology, pathophysiology, diagnosis and management) and the presentation of original research. PREREQ: RESPCARE 203.

**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 RESPIRATORY CARE THEORY III (3-0-3)(F).** Theory and clinical application of mechanical ventilation, including care and management of artificial airways, and hemodynamic monitoring. PREREQ: RESPCARE 223. COREQ: RESPCARE 300, RESPCARE 304, RESPCARE 308.

**RESPCARE 304 RESPIRATORY CARE LABORATORY III (1-2-2)(F).** Practice using mechanical ventilators and suctioning devices. 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 RESPIRATORY CARE IV (3-0-3)(S).** Theory and application of techniques and equipment to neonatology and pediatrics. PREREQ: RESPCARE 303. COREQ: RESPCARE 324, RESPCARE 328, RESPCARE 350.

**RESPCARE 324 RESPIRATORY CARE LABORATORY IV (0-2-1)(S).** Use of infant ventilators and special techniques pertaining to pediatrics. PREREQ: RESPCARE 303. COREQ: RESPCARE 323, RESPCARE 328, RESPCARE 350.

**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 350.

**RESPCARE 329 DISEASES AND DIAGNOSTICS II (3-0-3)(F).** Emphasis placed on conditions, disease states, practices and special procedures encountered in rehabilitation and critical care units. Case studies/problem based learning will be used to produce students who can gather and synthesize information for comprehensive approach to the practice of respiratory care. PREREQ: RESPCARE 229.

**RESPCARE 350 RECITATION AND APPLICATION IV (1-0-1)(S).** Review, discussion, and application of information presented in theory and lab with reference to clinical situations. PREREQ: RESPCARE 303. COREQ: RESPCARE 323, RESPCARE 324, RESPCARE 328.

**RESPCARE 355 PROFESSIONAL COMMUNICATIONS IN HEALTH CARE (3-0-3)(S)(CID).** 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: ENGL 102 (or ENGL 112), upper-division standing in Respiratory Care.

**RESPCARE 403 RESPIRATORY CARE THEORY V (3-0-3)(F).** Theory and application of the latest advances in Respiratory Care. Includes critical care, floor care, home care, and rehabilitation. PREREQ: RESPCARE 323.

**RESPCARE 431 QUALITY IMPROVEMENT IN HEALTH CARE (3-0-3)(F).** 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. PREREQ: RESPCARE 223.

**RESPCARE 440 SENIOR THEORY: ADVANCED CONCEPTS (3-0-3)(F).** Techniques and methods used to analyze and evaluate the health status of critically ill patients with emphasis on the respiratory and cardiovascular systems. PREREQ: PERM/INST.

**RESPCARE 441 TEACHING TECHNIQUES FOR HEALTH CARE PROFESSIONALS (3-0-3)(S).** An interactive, online course designed to provide health care professionals with the skills needed to provide effective peer and client education. PREREQ: Department approval or PERM/INST.

**RESPCARE 442 SLEEP MEDICINE (3-0-3)(F).** Overview of sleep medicine, anatomy and physiology of sleep and breathing. Introduction to sleep disorders and polysomnograpy including monitoring techniques and instrumentation. PREREQ: Department approval or PERM/INST.

**RESPCARE 443 CURRENT TOPICS IN RESPIRATORY DISEASE (3-0-3)(F).** Discussion of current issues related to respiratory disease, including pathophysiology, management and outcomes. PREREQ: Department approval or PERM/INST.

**RESPCARE 444 LEADERSHIP AND MANAGEMENT FOR HEALTH CARE PROFESSIONALS (3-0-3)(S).** 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. PREREQ: Department approval or PERM/INST.

**RESPCARE 445 PATIENT ADVOCACY AND ETHICAL CONSIDERATIONS (3-0-3)(S).** 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. PREREQ: Department approval or PERM/INST.

**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)(S).** Online discussions of topics related to respiratory care. PREREQ: Department approval or PERM/INST.

## Social Science — see Department of Sociology

# School of Social Work

*College of Health Sciences*

Education Building, Room 716 Phone: (208) 426-1568
www.boisestate.edu/socwork Fax: (208) 426-4291

*Director and Professor:* Randy Magen. *B.A. Coordinator and Professor:* Cynthia Sanders. *Practicum Director:* Ray Mullenax. *Professors:* Harkness. *Associate Professors:* Allen, Hutson, Kenaley, Liley, Powers.

## Degrees Offered

- Bachelor of Arts in Social Work
- Certificate in Refugee Services

## 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, households, 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 bachelors 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.

## Requirements for 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 B.A. 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:

1. Faculty evaluation of student applications.
2. Courses required for BSW program candidacy completed with a C or higher unless otherwise noted: ENGL 101-102, Foundations: UF 100, UF 200, Mathematics DLM course, two Natural, Physical and Applied Science (DLN) courses (one must be BIOL 100 or BIOL 191 or BIOL 227), Visual and Performing Art (DLV) course, Literature and Humanities (DLL) 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.
3. Minimum cumulative GPA of 2.5 **OR** a minimum GPA of 2.8 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 3.0 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 and March. 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 adviser 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 (www.boisestate.edu/socwork/).

## Degree Requirements

| Social Work<br>Bachelor of Arts | |
|---|---|
| *Course Number and Title* | *Credits* |
| Foundational Studies Program requirements indicated in **bold**. See page 50 for details and lists of approved courses. | |
| **ENGL 101** Introduction to College Writing | 3 |
| **ENGL 102** Intro to College Writing and Research | 3 |
| **UF 100** Intellectual Foundations | 3 |
| **UF 200** Civic and Ethical Foundations | 3 |
| **DLM** Mathematics | 3-4 |
| **DLN** BIOL 100 Concepts of Biology or<br>BIOL 191 General Biology or<br>BIOL 227 Human Anatomy and Physiology | 4 |
| **DLN** Natural, Physical, and Applied Sciences course | 3-4 |
| **DLV** Visual and Performing Arts | 3 |
| **DLL** Literature and Humanities | 3-4 |
| **DLS** COMM 101 Fundamentals of Communication | 3 |
| **DLS** SOCWRK 101 Introduction to Social Welfare | 3 |
| ECON 201 Principles of Macroeconomics or<br>ECON 202 Principles of Microeconomics | 3 |
| POLS 101 American National Government | 3 |
| PSYC 101 General Psychology | 3 |
| SOC 101 Introduction to Sociology | 3 |
| SOC 230 Introduction to Ethnic Studies | 3 |
| SOCWRK 201 Foundations of Social Work | 3 |
| SOCWRK 301 Social Welfare Policy | 3 |
| SOCWRK 320 Human Behavior in Social Environment I | 3 |
| **CID** SOCWRK 333 Generalist Social Work Practice I: Individuals | 3 |
| SOCWRK 380 Social Work Research Methods and Statistics | 3 |
| SOCWRK 420 Human Behavior in Social Environment II | 3 |
| SOCWRK 444 Generalist Social Work Practice II: Families and Groups | 3 |
| SOCWRK 455 Generalist Social Work Practice III: Organizations and Communities | 3 |
| SOCWRK 480, 481 Social Work Field Practicum I & II | 10 |
| **FF** SOCWRK 498 Senior Seminar I | 1 |
| **FF** SOCWRK 499 Senior Seminar II | 1 |
| Upper-division Social Work electives | 3 |
| Diversity Cluster courses chosen from: ANTH 307, ANTH 320, BASQ-STD 335, COMM 351, COMM 485, ED-LLC 200, ED-LLC 202, ED-ESP 250, ENGL 216, ENGL 390, ENGL 395, GENDER 300, GENDER 303, HIST 341, HIST 344, HIST 346, HIST 348, HIST 349, HIST 363, HIST 366, HIST 369, HIST 371, HIST 372, HIST 375, PSYC 219, PSYC 229, PSCY 261, SOC 305, SOC 306, SOC 307, SOC 333, SOC/GENDER 371, SOC 471/GENDER 301, SOC 472, SOC 481, SOCWRK 407, SOCWRK 408, SOCWRK 409, SOCWRK 410, SOCWRK 411, SOCWRK 412, World Languages | 6-9 |
| Electives to total 120 credits | 20-26 |
| *Total* | 120 |

| Certificate in Foundation of Refugee Services | |
|---|---|
| *Course Number and Title* | *Credits* |
| REFUGEE 407 Principles of Refugee Resettlement | 3 |
| REFUGEE 408 Working with Refugees Across Cultures | 3 |
| REFUGEE 409 Case Management with Refugees | 3 |
| *Total* | 9 |

| Certificate in Macro Practice for Refugee Services | |
|---|---|
| *Course Number and Title* | *Credits* |
| REFUGEE 410 Intro to Refugee Program Supervision & Mgt | 3 |
| REFUGEE 411 Advanced Refugee Macro Practice | 3 |
| REFUGEE 412 Capstone in Macro Practice | 3 |
| *Total* | 9 |

## Course Offerings

**See page 63 for a definition of the course-numbering system.**

**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) (DLS).** 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)(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. 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. Includes theories and knowledge of biological, sociological, cultural, psychological, and spiritual development across the life span. Examines social systems in which people live and their influence in maintaining or achieving health and well-being. PREREQ: Admission to BSW candidacy.

**SOCWRK 333 GENERALIST SOCIAL WORK PRACTICE I: INDIVIDUALS (3-0-3)(S)(CID).** Social work practice with individuals from generalist perspective integrating human behavior theories with the generalist intervention models of practice with a focus on strengths, expanding micro interviewing skills, cultural competency, assessment, goal setting, planning empirically-based interventions and evaluation of practice. PREREQ: ENGL 102 (or ENGL 112), 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 a scientific, analytic, and ethical approach to building knowledge for generalist social work practice. Will prepare to develop, use, and effectively communicate empirically-based knowledge, including evidence-based interventions, for initiating change, evaluating social work practice, and providing services that improve client outcomes. PREREQ: Upper-division standing and Area III 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 406 SPRING BREAK ALTERNATIVE (1-2-3)(S).** Examines historical, socio-cultural, socio-economic and political issues for the alternative spring break experience area. Leadership, group dynamics and team building are covered. Planning, coordination, service-learning at the experience site and fund raising aspects of the experience are included. May be repeated for credit. PREREQ: PERM/INST.

**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).** Prepares with 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. PREREQ: Admission to BSW candidacy or PERM/INST.

**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. PREREQ: Admission to BSW candidacy or PERM/INST.

**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. PREREQ: Admission to BSW candidacy or PERM/INST.

**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. PREREQ: Admission to BSW candidacy or PERM/INST.

**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, emphasizes, from a critical perspective, the effects of institutional forces (political, economic, cultural, and historical) on human behavior and development. Presents theories and knowledge of these social systems effects on health and well-being. Populations-at-risk are emphasized relative to social and economic justice concerns. The effects of prejudice and discrimination on individuals and groups, based on race, ethnicity, gender, affectional orientation, class, and other stigmatizing characteristics are emphasized. 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 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 with a focus on strengths, engagement, assessment, planning, providing empirically-based interventions, and evaluation of mezzo level systems. Attention is given to provision of services to persons from diverse backgrounds. PREREQ: SOCWRK 333.

**SOCWRK 455 GENERALIST SOCIAL WORK PRACTICE III: ORGANIZATIONS AND COMMUNITIES (3-0-3)(S).** Social work macro practice from a generalist perspective including assessment and empirically-based interventions in organizational and community settings to promote social and economic justice. 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).** Requires sixteen clock hours per week as a practicing generalist social worker under the teaching supervision of a licensed social worker. (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).** 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).** Facilitates and encourages development as an entry level generalist practitioner through the synthesis of social work knowledge, values and skills. The 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*

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http://sspa.boisestate.edu/sociology/
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Fax: (208) 426-2098

*Chair and Associate Professor:* Martin Orr. *Professor:* Blain. *Associate Professors:* Husting, Scarritt. *Assistant Professors:* Conley-Estrada, Romero, Som Castellano. *Lecturers:* Brunette, Mawhirter.

## Degrees Offered

- Bachelor of Science in Sociology
- Bachelor of Science in Social Science
- Bachelor of Science in Ethnic Studies
- Bachelor of Arts in Sociology, Social Science, Secondary Education
- Associate of Arts in Social Science
- Minor in Sociology
- Minor in Mexican-American Studies
- Minor in Ethnic Studies

## 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 three 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<br>Bachelor of Science | |
|---|---|
| *Course Number and Title* | *Credits* |
| Foundational Studies Program requirements indicated in **bold**. See page 50 for details and lists of approved courses. | |
| **ENGL 101** Introduction to College Writing | 3 |
| **ENGL 102** Intro to College Writing and Research | 3 |
| **UF 100** Intellectual Foundations | 3 |
| **UF 200** Civic and Ethical Foundations | 3 |
| **DLM** Mathematics | 3-4 |
| **DLN** Natural, Physical, & Applied Sciences course with lab | 4 |
| **DLN** Natural, Physical, and Applied Sciences course | 3-4 |
| **DLV** Visual and Performing Arts | 3 |
| **DLL** Literature and Humanities | 3-4 |
| **DLS** SOC 101 Introduction to Sociology | 3 |
| **DLS** 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 |
| **CID** SOC 311 Social Research | 3 |
| SOC 493 Internship or<br>SOC 496 Independent Study | 3 |
| **FF** SOC 498 Senior Seminar | 3 |
| Upper-division sociology electives | 15 |
| Upper-division electives to total 40 credits | 7 |
| *Continued* | |

| *Sociology continued* | |
|---|---|
| Electives to total 120 credits | 43-46 |
| *Total* | 120 |

| Sociology Minor | |
|---|---|
| *Course Number and Title* | *Credits* |
| 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 |

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<br>Bachelor of Science | |
|---|---|
| *Course Number and Title* | *Credits* |
| Foundational Studies Program requirements indicated in **bold**. See page 50 for details and lists of approved courses. | |
| **ENGL 101** Introduction to College Writing | 3 |
| **ENGL 102** Intro to College Writing and Research | 3 |
| **UF 100** Intellectual Foundations | 3 |
| **UF 200** Civic and Ethical Foundations | 3 |
| **DLM** Mathematics | 3-4 |
| **DLN** Natural, Physical, & Applied Sciences course with lab | 4 |
| **DLN** Natural, Physical, and Applied Sciences course | 3-4 |
| **DLV** Visual and Performing Arts | 3 |
| **DLL** Literature and Humanities | 3-4 |
| **DLS** Social Sciences course in a first field | 3 |
| **DLS** Social Sciences course in a second field | 3 |
| **CID** SOC 201 Theories of Society | 3 |
| SOC 493 Internship or<br>SOC 496 Independent Study | 3 |
| **FF** 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* | 9 |
| *Select from the following for first and second fields of study: anthropology, communication, criminal justice, economics, gender studies, history, political science, psychology, and sociology. Only three (3) credit hours in each field may be workshops, special topics, independent study courses, or internships. | |
| *Continued* | |

| *Social Science continued* | |
|---|---|
| Upper-division electives to total 40 credits | 10-13 |
| Electives to total 120 credits | 37-43 |
| *Total* | 120 |

Students may also complete an Associate of Arts in Social Science.

| Social Science<br>Associate of Arts | |
|---|---|
| *Course Number and Title* | *Credits* |
| Foundational Studies Program requirements indicated in **bold**. See page 50 for details and lists of approved courses. | |
| **ENGL 101** Introduction to College Writing | 3 |
| **ENGL 102** Intro to College Writing and Research | 3 |
| **UF 100** Intellectual Foundations | 3 |
| **UF 200** Civic and Ethical Foundations | 3 |
| **DLM** Mathematics | 3-4 |
| **DLN** Natural, Physical, & Applied Sciences course with lab | 4 |
| **DLN** Natural, Physical, and Applied Sciences course | 3-4 |
| **DLV** Visual and Performing Arts | 3 |
| **DLL** Literature and Humanities | 3-4 |
| **DLS** COMM 101 Fundamentals of Communication or **DLS** COMM 112 Reasoned Discourse | 3 |
| **DLS** 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 **DLS** courses and should include a third field.) | 12 |
| Electives to total 64 credits | 15-18 |
| *Total* | 64 |

The Ethnic Studies major is an interdisciplinary program leading to a B.A. degree. The primary emphasis of the major is producing professionals capable of identifying sources of intercultural conflict, promoting intercultural conflict resolution, and advocating multicultural access to all facets of U.S. society. Course work examines current issues, trends, controversies, and practices involving multiculturalism and diversity in the U.S.

| Ethnic Studies<br>Bachelor of Science | |
|---|---|
| *Course Number and Title* | *Credits* |
| Foundational Studies Program requirements indicated in **bold**. See page 50 for details and lists of approved courses. | |
| **ENGL 101** Introduction to College Writing | 3 |
| **ENGL 102** Intro to College Writing and Research | 3 |
| **UF 100** Intellectual Foundations | 3 |
| **UF 200** Civic and Ethical Foundations | 3 |
| **DLM** Mathematics | 3-4 |
| **DLN** Natural, Physical, & Applied Sciences course with lab | 4 |
| *Continued* | |

| *Ethnic Studies continued* | |
|---|---|
| **DLN** Natural, Physical, and Applied Sciences course | 3-4 |
| **DLV** Visual and Performing Arts | 3 |
| **DLL** Literature and Humanities | 3-4 |
| **DLS** SOC 230 Introduction to Ethnic Studies | 3 |
| **DLS** Social Sciences course in a second field | 3 |
| **CID** SOC 305 Race and Cultural Minorities | 3 |
| **FF** SOC 498 Senior Seminar | 3 |
| BASQ-STD/SOC 493 Internship Ethnic Organization/ Ethnic Issues Organization | 3 |
| Methods course:<br>GENDER 302 Research Methods and Perspectives or<br>SOC 311 Social Research Methods | 3 |
| Content Areas (at least one course from each of the three following categories, totaling a minimum of 7 courses): | 17-25 |
| History<br>ANTH 307 Indians of North America<br>ANTH 312 Prehistory of North America<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 341 The Indian in United States History<br>HIST 349 History of Multicultural America<br>HIST 361 Colonial Latin America<br>HIST 362 Modern Latin America<br>HIST 363 History of Mexico<br>HIST 366 History of Modern Africa: 1750-Present | |
| 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 202 Mexican-American Tradition and Culture<br>ED-LLC 305 Spanish for the Bilingual Classroom<br>ENGL 213 African-American Literature<br>ENGL 216 Cultural Exchange in Transnational Literatures<br>ENGL 391 North American Indian Folklore and Literature<br>ENGL 395 Women Writers<br>FORLNG 310 Japanese Culture and Society<br>FORLNG 320 China Today<br>FORLNG 321 Chinese Culture through Film<br>FORLNG 360 Topics in Hispanic Literature<br>GENDER 300 Introduction to Gender Studies<br>GENDER 303 Introduction to Women's Studies<br>GENDER 480 Seminar in Gender Studies<br>SPANISH 202 Intermediate Spanish II<br>SPANISH 203 Intermediate Spanish for the Native or Near-Native Speaker<br>SPANISH 303 Advanced Spanish Conversation and Composition<br>SPANISH 304 Introduction to Hispanic Literature<br>SPANISH 313 Advanced Spanish Conversation and Composition for Native Speakers | |
| SPANISH 377 Latin American Culture and Civilization<br>SPANISH 385 Mexican American Culture and Civilization<br>SPANISH 403 Survey of Latin American Literature I<br>SPANISH 404 Survey of Latin American Literature II<br>SPANISH 425 Mexican American Literature<br>SPANISH 430 Topics in Latin American Literature<br>SPANISH 490 Topics in Hispanic Cinema<br>World Language: two courses in a foreign language sequence | |
| *Continued* | |

| *Ethnic Studies continued* | |
|---|---|
| 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>ED-LLC 306 Field Experience in the Bilingual or ENL Classroom<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>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>SPANISH 475 Latin America Today<br>SPANISH 476 Human Rights in Latin America | |
| Upper-division electives to total 40 credits | 7-24 |
| Electives to total 120 credits | 24-30 |
| *Total* | 120 |

## Ethnic Studies Minor

| *Course Number and Title* | *Credits* |
|---|---|
| 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 of the three content areas listed for the Ethnic Studies major | 12-14 |
| *Total* | 21-23 |

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

| *Course Number and Title* | *Credits* |
|---|---|
| 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 |
| *Continued* | |

| *Mexican-American Studies continued* | |
|---|---|
| SOC 493 Internship (emphasis on Latino placements) | 3 |
| Courses chosen from:<br>ARTHIST 359 Pre-Columbian Art<br>ED-LLC 202 Mexican-American Tradition and Culture<br>ED-LLC 305 Spanish for the Bilingual Classroom<br>ED-LLC 306 Field Experience in the Bilingual or ENL Classroom<br>FORLNG 360 Topics in Hispanic Literature<br>HIST 361 Colonial Latin America<br>HIST 362 Modern Latin America<br>POLS 423 Latin American Politics<br>SPANISH 202 Intermediate Spanish II<br>SPANISH 203 Intermediate Spanish for the Native or Near-Native Speaker<br>SPANISH 303 Advanced Spanish Conversation and Composition<br>SPANISH 304 Introduction to Hispanic Literature<br>SPANISH 313 Advanced Spanish Conversation and Composition for Native Speakers<br>SPANISH 377 Latin American Culture and Civilization<br>SPANISH 385 Mexican American Culture and Civilization<br>SPANISH 403 Survey of Latin American Literature I<br>SPANISH 404 Survey of Latin American Literature II<br>SPANISH 425 Mexican American Literature<br>SPANISH 430 Topics in Latin American Literature<br>SPANISH 490 Topics in Hispanic Cinema | 7-11 |
| *Total* | 22-26 |

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:

1. Complete a minimum of 39 credits in sociology.
2. 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.
3. 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 http://education.boisestate.edu. 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. Course work 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* |
| Foundational Studies Program requirements indicated in **bold**. See page 50 for details and lists of approved courses. | |
| **ENGL 101** Introduction to College Writing | 3 |
| **ENGL 102** Intro to College Writing and Research | 3 |
| **UF 100** Intellectual Foundations | 3 |
| **UF 200** Civic and Ethical Foundations | 3 |
| **DLM** Mathematics | 3-4 |
| **DLN** Natural, Physical, & Applied Sciences course with lab | 4 |
| **DLN** Natural, Physical, and Applied Sciences course | 3-4 |
| **DLV** Visual and Performing Arts | 3 |
| **DLL** Literature and Humanities | 3-4 |
| **DLS** HIST 121 Eastern Civilizations | 3 |
| **DLS** POLS 101 American National Government | 3 |
| EDTECH 202 Teaching and Learning in a Digital Age | 3 |
| ED-CIFS 201 Foundations of Education | 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 |
| **CID** SOC 311 Social Research | 3 |
| **FF** SOC 498 Senior Seminar | 3 |
| Upper-division sociology courses | 15 |
| Upper-division social science field other than sociology | 21 |
| *Total* | 122-125 |

| Sociology Teaching Endorsement | |
|---|---|
| *Course Number and Title* | *Credits* |
| 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 |
| *Total* | 21 |
| See Department of Curriculum, Instruction, and Foundational Studies for more information. | |

## Course Offerings

**See page 63 for a definition of the course-numbering system.**

**SOC–Sociology**

**Lower Division**

**SOC 101 INTRODUCTION TO SOCIOLOGY (3-0-3)(F,S,SU)(DLS).** 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)(DLS).** 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 201 THEORIES OF SOCIETY (3-0-3)(F)(CID).** 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 (or ENGL 112), SOC 101.

**SOC 230 INTRODUCTION TO ETHNIC STUDIES (3-0-3)(F,S)(DLS).** 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 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).** Examination of the development of sociological theory from its philosophical precursors through the first decades of the twentieth century. PREREQ: 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)(CID).** Comparative study of inter-ethnic relations. Problems and possibilities of genocide, oppression, integration, pluralism and equality. PREREQ: ENGL 102 (or ENGL 112), 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)(CID).** Introduction to the design of sociological research and the statistical analysis of social data. PREREQ: ENGL 102 (or ENGL 112), 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)(Alternate years).** 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 330 SOCIOLOGY OF VIOLENCE (3-0-3)(F).** 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).** 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)(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 361 SOCIOLOGY OF WORK (3-0-3)(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: Upper-division criminal justice standing.

**SOC 371 (GENDER 371) THE SOCIAL PSYCHOLOGY OF GENDER (3-0-3)(S).** 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)(Alternate years).** A survey of research literature and theory in political sociology, including attitudes, values, power structure, parties, and political participation in the U.S. This course will examine the pluralistic nature of society from the sociological perspective. PREREQ: SOC 101 and upper-division standing.

**SOC 390 (COMM 390)(DISPUT 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, DISPUT, or SOC but not for more than one department. PREREQ: COMM 101 or SOC 290, upper-division standing.

**SOC 395 THE SOCIOLOGY OF PEACE AND WAR (3-0-3)(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 and upper-division standing.

**SOC 403 SOCIAL CHANGE (3-0-3)(F/S)(Alternate years).** 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)(S).** Social science perspectives on religion. Religion viewed as human activity influencing and being influenced by social organization and social conditions. PREREQ: SOC 101 and upper-division standing.

**SOC 410 ADVANCED SOCIAL STATISTICS (3-0-3)(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).** 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 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)(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 421 SOCIAL INEQUALITY (3-0-3)(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 and upper-division standing.

**SOC 425 URBAN SOCIOLOGY (3-0-3)(F).** 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)(S)(Odd years).** 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. This course may be taken for either psychology or sociology 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)(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 471 (GENDER 301) FEMINIST THEORY (3-0-3)(F).** 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 300 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 481 SOCIOLOGY OF GENDER AND AGING (3-0-3)(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 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: SOC 311 and senior standing in the Sociology, Social Science or Ethnic Studies majors.

Spanish — see Department of World Languages

STEM-Education courses — see IDoTeach Program

Supply Chain Management — see Department of Information Technology and Supply Chain Management

# Sustainability Minor

*College of Business and Economics*

Department of Economics, MBEB 3rd Floor Phone: (208) 426-5439
E-mail: scottlowe@boisestate.edu

*Coordinator:* Scott E. Lowe

## Program Offered

- Minor in Sustainability

## Program Statement

The Sustainability Minor is a 21-23 credit interdisciplinary minor. The academic focus of the minor is directed toward courses at the confluence of environmental science, social science, and business. The Sustainability Minor prepares students to help organizations change the ways in which they design policies, processes, products and services, and allocate resources, by applying tools such as sustainable cost-benefit analyses and problem solving strategies. 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 (13 credits) that comprises courses that cover sustainability related theories, applications, tools, and models, with an emphasis on transforming the way that organizations and communities work. The minor provides flexibility by offering an interdisciplinary curriculum of electives with a sustainability focus (8-10 credits), selected from a variety 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 |
| PHIL 103 Moral Problems | 3 |
| Environmental sustainability elective:<br>BIOL 323 Ecology<br>CE 320 Principles of Environmental Engineering<br>ENVHLTH 450 Environmental Health Law<br>GEOS 305 Earth's Climate: Past, Present, and Future | 2-4 |
| Economic sustainability elective:<br>ECON 315 Global Economic Development<br>ECON 322 Urban Economics<br>ECON 333 Natural Resource Economics | 3 |
| Societal sustainability elective:<br>ANTH 314 Environmental Anthropology<br>GEOG 321 Sustainability of Natural Resources<br>HIST 376 Global Environmental History<br>PHIL 327 Environmental Ethics<br>POLS 409 Environmental Politics<br>SOC 440 Environmental Sociology | 3 |
| *Total* | 21-23 |

# Department of Theatre Arts

*College of Arts and Sciences*

Morrison Center, Room C-100 Phone: (208) 426-3957
https://sites.google.com/a/boisestate.edu/theatreartsdepartment/

*Chair and Professor:* Richard Klautsch. *Professors:* Atlakson, Durham, Reinhart. *Associate Professors:* Baltzell, Hansen. *Assistant Professors:* Davis, Pufall. *Lecturer:* Price.

## Degrees Offered

- Bachelor of Arts in Theatre Arts
  - Dance Option
  - Design Option
  - Directing Option
  - Dramatic Writing Option
  - Performance Option
  - Stage Management Option
- Bachelor of Arts in Theatre Arts, Secondary Education
- Minor in Dance
- Minor in Theatre Arts

## Department Statement

The Department of Theatre Arts serves Boise State University, the College of Arts and Sciences, the city of Boise, and the state of Idaho as an urban institution for learning the craft of and practicing theatre arts while helping foster rigorous intellectual investigation and an active arts community. As a Department we: provide theoretical and practical courses and experiences that focus on a variety of theatrical disciplines within a liberal arts environment; provide seasons of plays that challenge and educate our students throughout the University and offer cultural enrichment to the community at large; prepare Theatre Arts majors to work in the performing arts industry, to study theatre at the graduate level, and to achieve state certification to teach drama; support faculty research and professional creative activity on regional, national, and international levels; and support the growth and operations of local theatre for the mutual benefit of the Department, the profession, and the community.

## Degree Requirements

| Theatre Arts<br>Bachelor of Arts | |
|---|---|
| *Course Number and Title* | *Credits* |
| Foundational Studies Program requirements indicated in **bold**. See page 50 for details and lists of approved courses. | |
| **ENGL 101** Introduction to College Writing | 3 |
| **ENGL 102** Intro to College Writing and Research | 3 |
| **UF 100** Intellectual Foundations | 3 |
| **UF 200** Civic and Ethical Foundations | 3 |
| **DLM** Mathematics | 3-4 |
| **DLN** Natural, Physical, & Applied Sciences course with lab (Dance Option majors must take BIOL 227 -- prior or concurrent enrollment in CHEM 101 is recommended.) | 4 |
| **DLN** Natural, Physical, and Applied Sciences course | 3-4 |
| **DLV** ART 100 Intro to Art or MUS 100 Intro to Music (Dance Option majors must take MUS 100 or MUS 101) | 3 |
| **DLL** Literature and Humanities | 3-4 |
| **DLS** Social Sciences course in a first field | 3 |
| **DLS** Social Sciences course in a second field | 3 |
| THEA 010 Theatre Symposium (Required each semester for all theatre arts majors.) | 0 |
| *Continued* | |

| *Theatre Arts continued* | |
|---|---|
| THEA 105 Play Analysis | 3 |
| THEA 117-118 Technical Theatre I and II | 8 |
| THEA 215 Acting I | 3 |
| **CID** THEA 230 Development of Theatre I: Classical – 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 Forms | 3 |
| THEA 331 Advanced Major Production Participation | 1 |
| THEA 360 Advanced Studies in Theatre History or THEA 390 Dramaturgy | 3 |
| **FF** THEA 491 Senior Projects | 3 |
| **Dance Option** | |
| BIOL 228 Human Anatomy and Physiology | 4 |
| THEA 210 Repertory Dance | 2 |
| THEA 212 or THEA 412 Movement and Dance for the Performing Arts | 3 |
| THEA 410 Repertory Dance | 2 |
| Ballet Technique chosen from:<br>THEA 112 Ballet I<br>THEA 213 Ballet II<br>THEA 314 Ballet III<br>(Each course may be repeated for credit.) | 4 |
| Two different 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<br>(Each course may be repeated for credit.) | 2 |
| Upper-division electives to total 40 credits | 19-25 |
| Electives to total 120 credits | 7-16 |
| *Total* | 120 |
| **Design Option** | |
| THEA 351 Elements of Scenic Design | 3 |
| THEA 352 Costume Design | 3 |
| THEA 362 Stage Lighting Design | 3 |
| Upper-division electives to total 40 credits | 18 |
| Electives to total 120 credits | 22-25 |
| *Total* | 120 |
| **Directing Option** | |
| THEA 216 Acting II | 3 |
| THEA 300 Stage Management | 3 |
| THEA 302 Directing II | 3 |
| THEA 351 Elements of Scenic Design | 3 |
| Upper-division electives to total 40 credits | 18 |
| Electives to total 120 credits | 19-22 |
| *Total* | 120 |
| *Continued* | |

| *Theatre Arts continued* | |
|---|---|
| **Dramatic Writing Option** | |
| THEA 340 Playwriting | 3 |
| THEA 350 Screenwriting | 3 |
| THEA 340 Playwriting or THEA 350 Screenwriting | 3 |
| Upper-division electives to total 40 credits | 18 |
| Electives to total 120 credits | 22-25 |
| *Total* | 120 |
| **Performance Option** | |
| THEA 216 Acting II | 3 |
| THEA 233 Stage Voice I | 2 |
| THEA 234 Stage Voice II | 2 |
| THEA 311 Advanced Acting | 3 |
| Upper-division electives to total 40 credits | 24 |
| Electives to total 120 credits | 15-18 |
| *Total* | 120 |
| **Stage Management Option** | |
| MGMT 301 Leadership Skills | 3 |
| THEA 300 Stage Management | 3 |
| THEA 310 Sound for the Theatre | 3 |
| THEA 362 Stage Lighting Design | 3 |
| THEA 440 Theatre Management | 3 |
| Upper-division electives to total 40 credits | 12 |
| Electives to total 120 credits | 22-25 |
| *Total* | 120 |
| The department recommends that theatre arts majors take ACAD 105 Reading and Study Strategies and 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. Course work 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 http://education.boisestate.edu. Students are expected to meet all knowledge, skill, and dispositional requirements for continued enrollment in the program.

| Theatre Arts, Secondary Education Bachelor of Arts | |
|---|---|
| *Course Number and Title* | *Credits* |
| Foundational Studies Program requirements indicated in **bold**. See page 50 for details and lists of approved courses. | |
| **ENGL 101** Introduction to College Writing | 3 |
| **ENGL 102** Intro to College Writing and Research | 3 |
| **UF 100** Intellectual Foundations | 3 |
| **UF 200** Civic and Ethical Foundations | 3 |
| **DLM** Mathematics | 3-4 |
| **DLN** Natural, Physical, & Applied Sciences course with lab | 4 |
| **DLN** Natural, Physical, and Applied Sciences course | 3-4 |
| **DLV** ART 100 Intro to Art or MUS 100 Intro to Music | 3 |
| **DLL** Literature and Humanities | 3-4 |
| **DLS** ED-CIFS 201 Foundations of Education | 3 |
| **DLS** 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 (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 |
| **CID** THEA 230 Development of Theatre I: Classical – Neoclassical Forms | 3 |
| 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 THEA 362 Stage Lighting Design | 3 |
| THEA 440 Theatre Management | 3 |
| **FF** THEA 491 Senior Projects | 3 |
| Upper-division electives to total 40 credits | 5 |
| Electives to total 120 credits | 3-7 |
| *Total* | 120 |

| Drama Teaching Endorsement | |
|---|---|
| *Course Number and Title* | *Credits* |
| COMM 101 Fundamentals of 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 331 Advanced Major Production Participation | 1 |
| THEA 491 Senior Projects | 3 |
| *Total* | 20 |
| See Department of Curriculum, Instruction, and Foundational Studies for more information. | |

| Theatre Arts Minor | |
|---|---|
| *Course Number and Title* | *Credits* |
| THEA 117 Technical Theatre I | 4 |
| THEA 215 Acting I | 3 |
| THEA 118 Technical Theatre II or THEA 216 Acting II | 3-4 |
| THEA 230 Development of Theatre I: Classical – Neoclassical Forms | 3 |
| THEA 231, 331 Major Production Participation | 3-4 |
| THEA 491 Senior Projects | 3 |
| *Total* | 19-21 |

| Dance Minor | |
|---|---|
| *Course Number and Title* | *Credits* |
| 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 BIOL 227 Human Anatomy and Physiology | 4 |
| KINES 270, 271 Applied Anatomy and Lab | 3 |
| MUS 100 Introduction to Music or MUS 101 Survey of Western Art Music | 3 |
| Approved Electives | 3-4 |
| *Total* | 28-29 |

## Course Offerings

**See page 63 for a definition of the course-numbering system.**

**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)(DLV).** 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.

**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 220 CINEMA: HISTORY AND AESTHETICS (3-0-3)(F,S)(DLV).** 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.

**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)(CID).** 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 (or ENGL 112).

**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 (2-1-2)(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 (2-1-2)(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 (2-0-2)(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 350 SCREENWRITING (3-0-3)(S).** Creating a premise, synopsis, treatment, and first draft of a full-length feature screenplay. May be repeated once 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 THEATRE MANAGEMENT (3-0-3)(F)(Even years).** Operational procedures for high school, university, community, and professional theatre. Includes consideration of organization, personnel, budgeting, purchasing, accounting, ticket sales, publicity, audience development, house management, and season development.

**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 Foundational Studies Program. PREREQ: Senior standing.

# University Foundations

*Foundational Studies Program*

Riverfront Hall, Room 116 Phone: (208) 426-4057
http://academics.boisestate.edu/fsp

## Course Offerings

**See page 63 for a definition of the course-numbering system.**

**UF – University Foundations**

**Lower Division**

**UF 100 INTELLECTUAL FOUNDATIONS (3-0-3)(F,S,SU).** An introduction to scholarly discourse and critical inquiry. Interdisciplinary courses organized around central themes enhance students' ability to communicate clearly, correctly, logically, and persuasively in spoken English. Weekly large sections with small seminar-like discussion sessions.

**UF 200 CIVIC AND ETHICAL FOUNDATIONS (3-0-3)(F,S,SU).** Supports the Foundational Studies Program by engaging students in discussion of ethics, diversity, and internationalization. Courses include writing assignments and an experiential learning component. Topics may vary each time the course is taught. PREREQ: ENGL 102 (or ENGL 112), UF 100, sophomore status.

**Upper Division**

**UF 300 TRANSITIONAL FOUNDATIONS (3-0-3)(F,S,SU).** Designed to meet the needs of students who have academic associate degrees or who enter Boise State core certified but do not have UF 100 and UF 200 credits. Ties previous student learning to the Foundational Studies Program and engages students in discussion of ethics, diversity, and internationalization. The course has an experiential learning component and enhances students' written and oral communication skills. PREREQ: Core certification or an associate degree.

Veterinary Studies, Pre-Professional Program — see Department of Community and Environmental Health

Visual Art, — see Department of Art

Wildlife, Pre-Forestry and Pre-, — see Department of Biological Sciences

# Department of World Languages

*College of Arts and Sciences*

Library, Room 140-B
http://worldlang.boisestate.edu
E-mail: ldawkins@boisestate.edu
Phone: (208) 426-3956
Fax: (208) 426-5909
SarahOlson2@boisestate.edu

*Chair and Associate Professor:* Adrian Kane. *Professors:* Boucher, Henderson. *Associate Professors:* Devereux Herbeck, Garza, Herbeck, Lete, Norman. *Assistant Professor:* Arispe. *Spanish Language Coordinator:* Cornwall. *American Sign Language Coordinator:* Snow. *Lecturers:* Carter-Cram, Ehara, Gómez, Kortazar, Leclercq, Sibrian, Ugalde, Wei.

## Degrees 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
  - Japanese Studies
  - Latin
  - Latin American and Latino/a Studies
  - Spanish
  - Spanish for Business
- Certificate in Elementary or Intermediate:
  - Arabic
  - American Sign Language
  - Basque
  - French
  - German
  - Japanese
  - Korean
  - Latin
  - Mandarin Chinese
  - Spanish

## 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, Japanese, Latin, and Latin American and Latino/a Studies as well as language instruction in Bosnian, Korean, 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 who wish to acquire proficiency at a "professional" or "near-native" level to spend time in a region whose language they are studying. Programs available through International 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 the Placement Exam to be placed into the correct class. For French, German and Spanish, the placement exam is offered Tuesday through Friday in the Academic and Career Services Building, Room 115. There is an $11.50 fee. You must bring a photo ID with you. You must register for the test through Register Blast: www.registerblast.com/boisestate/Exam/Index?Group1807 Please call 208-426-2762 or e-mail testing services@boisestate.edu for more information.

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.

## Language Resource Center

Computers, language-specific software, videos, and conversation lab in the World Languages Resource Center, Library, Room 144, assist students in their language studies. Most 100-, 200-, and 300-level language classes include a laboratory fee to support the extensive set of enrichment activities including conversation labs with native speakers.

## 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, Latin, Mandarin Chinese, and Spanish. External challenge exams are available for approximately 60 other 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 http://education.boisestate.edu. 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, and must successfully complete PRAXIS II examination in all endorsement areas before beginning student teaching (Block 3). Students must meet all knowledge, skill, and disposition requirements to remain in the program, and must successfully complete PRAXIS II examination in all endorsement areas.

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.

## Degree Requirements

1. To begin the program for the B.A. in French, the student must demonstrate competency in French equivalent to the completion of elementary (FRENCH 101 or FRENCH 111-112 and FRENCH 102) and intermediate (FRENCH 201, 202, 203) French — 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 French.
3. The student must demonstrate advanced levels of competency in French by means of an oral proficiency interview administered as part of the senior seminar (FRENCH 498).
4. Secondary Education majors should also consult with the Department of Curriculum, Instruction, and Foundational Studies catalog listing for current education requirements.

| French<br>Bachelor of Arts | |
|---|---|
| *Course Number and Title* | *Credits* |
| Foundational Studies Program requirements indicated in **bold**. See page 50 for details and lists of approved courses. | |
| **ENGL 101** Introduction to College Writing | 3 |
| **ENGL 102** Intro to College Writing and Research | 3 |
| **UF 100** Intellectual Foundations | 3 |
| **UF 200** Civic and Ethical Foundations | 3 |
| **DLM** Mathematics | 3-4 |
| **DLN** Natural, Physical, & Applied Sciences course with lab | 4 |
| **DLN** Natural, Physical, and Applied Sciences course | 3-4 |
| **DLV** Visual and Performing Arts | 3 |
| **DLL** FRENCH 102 Elementary French II | 4 |
| **DLS** Social Sciences course in a first field | 3 |
| **DLS** Social Sciences course in a second field | 3 |
| FRENCH 101 or FRENCH 111-112 Elementary French I | 4 |
| FRENCH 201-202 Intermediate French I and II | 6 |
| FRENCH 203 Intermediate French Conversation | 2 |
| **CID** FRENCH 303 Advanced French Conversation & Comp | 3 |
| FRENCH 304 Intro to French and Francophone Literatures | 3 |
| FRENCH 376 French Culture and Civilization | 3 |
| FRENCH 404 Survey of French Literature | 3 |
| FRENCH 412 Advanced French Grammar & Pronunciation | 3 |
| FRENCH 475 France Today or<br>FRENCH 485 The Francophone World Today | 3 |
| **FF** FRENCH 498 Senior Seminar | 3 |
| Upper-division French electives | 9 |
| Upper-division electives to total 40 credits | 10 |
| Electives to total 120 credits | 31-33 |
| *Total* | 120 |

| French, Secondary Education<br>Bachelor of Arts | |
|---|---|
| *Course Number and Title* | *Credits* |
| Foundational Studies Program requirements indicated in **bold**. See page 50 for details and lists of approved courses. | |
| **ENGL 101** Introduction to College Writing | 3 |
| **ENGL 102** Intro to College Writing and Research | 3 |
| **UF 100** Intellectual Foundations | 3 |
| **UF 200** Civic and Ethical Foundations | 3 |
| **DLM** Mathematics | 3-4 |
| **DLN** Natural, Physical, & Applied Sciences course with lab | 4 |
| **DLN** Natural, Physical, and Applied Sciences course | 3-4 |
| **DLV** Visual and Performing Arts | 3 |
| **DLL** FRENCH 102 Elementary French II | 4 |
| **DLS** ED-CIFS 201 Foundations of Education | 3 |
| **DLS** 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 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. | |
| FORLNG 410 Approaches to Foreign Language Education | 3 |
| FRENCH 101 or FRENCH 111-112 Elementary French I | 4 |
| FRENCH 201-202 Intermediate French I and II | 6 |
| FRENCH 203 Intermediate French Conversation | 2 |
| **CID** FRENCH 303 Advanced French Conversation & Composition | 3 |
| FRENCH 304 Intro to French and Francophone Literatures | 3 |
| FRENCH 376 French Culture and Civilization | 3 |
| FRENCH 404 Survey of French Literature | 3 |
| FRENCH 412 Advanced French Grammar & Pronunciation | 3 |
| FRENCH 475 France Today or<br>FRENCH 485 The Francophone World Today | 3 |
| **FF** FRENCH 498 Senior Seminar | 3 |
| LING 305 Introduction to Language Studies | 3 |
| Upper-division French electives | 9 |
| Electives to total 120 credits | 3-5 |
| *Total* | 120 |

1. To begin the program for the B. A. in German, the student must demonstrate competency in German equivalent to the completion of elementary (GERMAN 101, 102) and intermediate (GERMAN 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 (GERMAN 498).
4. Secondary Education majors should also consult with the Department of Curriculum, Instruction, and Foundational Studies catalog listing for current education requirements.

| German<br>Bachelor of Arts | |
|---|---|
| *Course Number and Title* | *Credits* |
| Foundational Studies Program requirements indicated in **bold**. See page 50 for details and lists of approved courses. | |
| **ENGL 101** Introduction to College Writing | 3 |
| **ENGL 102** Intro to College Writing and Research | 3 |
| **UF 100** Intellectual Foundations | 3 |
| **UF 200** Civic and Ethical Foundations | 3 |
| **DLM** Mathematics | 3-4 |
| **DLN** Natural, Physical, & Applied Sciences course with lab | 4 |
| **DLN** Natural, Physical, and Applied Sciences course | 3-4 |
| **DLV** Visual and Performing Arts | 3 |
| **DLL** GERMAN 102 Elementary German II | 4 |
| **DLS** Social Sciences course in a first field | 3 |
| **DLS** Social Sciences course in a second field | 3 |
| GERMAN 101 Elementary German I | 4 |
| GERMAN 201-202 Intermediate German I and II | 6 |
| GERMAN 203 Intermediate German Conversation | 2 |
| **CID** GERMAN 303 Advanced German Conversation and Composition | 3 |
| GERMAN 304 Introduction to German Literature | 3 |
| GERMAN 377 German Culture and Civilization | 3 |
| GERMAN 404 Survey of German Literature I | 3 |
| GERMAN 405 Survey of German Literature II | 3 |
| GERMAN 475 The German-Speaking World Today | 3 |
| **FF** GERMAN 498 Senior Seminar | 3 |
| Upper-division German courses | 9 |
| Upper-division electives to total 40 credits | 10 |
| Electives to total 120 credits | 31-33 |
| *Total* | 120 |

| German, Secondary Education<br>Bachelor of Arts | |
|---|---|
| *Course Number and Title* | *Credits* |
| Foundational Studies Program requirements indicated in **bold**. See page 50 for details and lists of approved courses. | |
| **ENGL 101** Introduction to College Writing | 3 |
| **ENGL 102** Intro to College Writing and Research | 3 |
| **UF 100** Intellectual Foundations | 3 |
| **UF 200** Civic and Ethical Foundations | 3 |
| **DLM** Mathematics | 3-4 |
| **DLN** Natural, Physical, & Applied Sciences course with lab | 4 |
| **DLN** Natural, Physical, and Applied Sciences course | 3-4 |
| **DLV** Visual and Performing Arts | 3 |
| **DLL** GERMAN 102 Elementary German II | 4 |
| **DLS** ED-CIFS 201 Foundations of Education | 3 |
| **DLS** 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 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. | |
| FORLNG 410 Approaches to Foreign Language Education | 3 |
| GERMAN 101 Elementary German I | 4 |
| GERMAN 201-202 Intermediate German I and II | 6 |
| GERMAN 203 Intermediate German Conversation | 2 |
| **CID** GERMAN 303 Advanced German Conversation and Composition | 3 |
| GERMAN 304 Introduction to German Literature | 3 |
| GERMAN 377 German Culture and Civilization | 3 |
| GERMAN 404 Survey of German Literature I | 3 |
| GERMAN 405 Survey of German Literature II | 3 |
| GERMAN 475 The German-Speaking World Today | 3 |
| **FF** GERMAN 498 Senior Seminar | 3 |
| LING 305 Introduction to Language Studies | 3 |
| Upper-division German courses | 9 |
| Electives to total 120 credits | 3-5 |
| *Total* | 120 |

1. To begin the program for the B. A. in Spanish, the student must demonstrate competency in Spanish equivalent to the completion of elementary (SPANISH 101 or SPANISH 111, 112 and 102) and intermediate (SPANISH 201, 202, or SPANISH 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 (SPANISH 498).
4. Secondary Education majors should also consult with the Department of Curriculum, Instruction, and Foundational Studies catalog listing for current education requirements.

| Spanish<br>Bachelor of Arts | |
|---|---|
| *Course Number and Title* | *Credits* |
| Foundational Studies Program requirements indicated in **bold**. See page 50 for details and lists of approved courses. | |
| **ENGL 101** Introduction to College Writing | 3 |
| **ENGL 102** Intro to College Writing and Research | 3 |
| **UF 100** Intellectual Foundations | 3 |
| **UF 200** Civic and Ethical Foundations | 3 |
| **DLM** Mathematics | 3-4 |
| **DLN** Natural, Physical, & Applied Sciences course with lab | 4 |
| **DLN** Natural, Physical, and Applied Sciences course | 3-4 |
| **DLV** Visual and Performing Arts | 3 |
| **DLL** SPANISH 102 Elementary Spanish II | 4 |
| **DLS** Social Sciences course in a first field | 3 |
| **DLS** Social Sciences course in a second field | 3 |
| SPANISH 101 or 111-112 Elementary Spanish I | 4 |
| SPANISH 201 Intermediate Spanish I | 4 |
| SPANISH 202 or 203 Intermediate Spanish II | 4 |
| **CID** SPANISH 303 or 313 Adv Spanish Conversation & Composition | 3 |
| SPANISH 304 Introduction to Hispanic Literature | 3 |
| SPANISH 412 Advanced Spanish Grammar and Syntax | 4 |
| SPANISH 376 Spanish Peninsular Culture & Civilization or SPANISH 377 Latin American Culture and Civilization or SPANISH 385 Mexican American Culture and Civilization | 3 |
| SPANISH 403, 404 Survey of Latin American Literature I & II or SPANISH 405, 406 Survey of Spanish Peninsular Lit I & II | 6 |
| **FF** SPANISH 498 Senior Seminar | 3 |
| Upper-division Spanish courses (Only 3 credit hours of electives may be from SPANISH 496.) | 9 |
| Upper-division electives to total 40 credits | 9 |
| Electives to total 120 credits | 31-33 |
| *Total* | 120 |

| Spanish, Secondary Education<br>Bachelor of Arts | |
|---|---|
| *Course Number and Title* | *Credits* |
| Foundational Studies Program requirements indicated in **bold**. See page 50 for details and lists of approved courses. | |
| **ENGL 101** Introduction to College Writing | 3 |
| **ENGL 102** Intro to College Writing and Research | 3 |
| **UF 100** Intellectual Foundations | 3 |
| **UF 200** Civic and Ethical Foundations | 3 |
| **DLM** Mathematics | 3-4 |
| **DLN** Natural, Physical, & Applied Sciences course with lab | 4 |
| **DLN** Natural, Physical, and Applied Sciences course | 3-4 |
| **DLV** Visual and Performing Arts | 3 |
| **DLL** SPANISH 102 Elementary Spanish I | 4 |
| **DLS** ED-CIFS 201 Foundations of Education | 3 |
| **DLS** 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 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. | |
| FORLNG 410 Approaches to Foreign Language Education | 3 |
| LING 305 Introduction to Language Studies | 3 |
| SPANISH 101 or 111-112 Elementary Spanish I | 4 |
| SPANISH 201 Intermediate Spanish I | 4 |
| SPANISH 202 or 203 Intermediate Spanish II | 4 |
| **CID** SPANISH 303 or 313 Adv Spanish Conversation & Composition | 3 |
| SPANISH 304 Introduction to Hispanic Literature | 3 |
| SPANISH 412 Advanced Spanish Grammar and Syntax | 4 |
| SPANISH 376 Spanish Peninsular Culture & Civilization or SPANISH 377 Latin American Culture and Civilization or SPANISH 385 Mexican American Culture and Civilization | 3 |
| SPANISH 403, 404 Survey of Latin American Literature I & II or SPANISH 405, 406 Survey of Spanish Peninsular Lit I & II | 6 |
| **FF** SPANISH 498 Senior Seminar | 3 |
| Upper-division Spanish courses (Only 3 credit hours of electives may be from SPANISH 496.) | 9 |
| Electives to total 120 credits | 2-4 |
| *Total* | 120 |

## American Sign Language Minor

| *Course Number and Title* | *Credits* |
|---|---|
| ASL 101 or ASL 111-112 American Sign Language I | 4 |
| ASL 102, 201, 202, 301, 302 American Sign Language | 20 |
| *Total* | 24 |

## Arabic Studies Minor

| *Course Number and Title* | *Credits* |
|---|---|
| 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 | 6 |
| *Total* | 22 |

## Chinese Studies Minor

| *Course Number and Title* | *Credits* |
|---|---|
| CHINESE 101 or CHINESE 111-112 Elementary Mandarin Chinese I | 4 |
| CHINESE 102 Elementary Mandarin Chinese II | 4 |
| CHINESE 201-202 Intermediate Mandarin Chinese I and II | 8 |
| HIST 121 Eastern Civilizations | 3 |
| Electives chosen from the following:<br>ARTHIST 103 Survey of Far Eastern Art<br>CHINESE 301 Advanced Mandarin Chinese I<br>FORLNG 320 China Today<br>FORLNG 321 Chinese Culture through Film<br>HIST 373 The History of Modern China<br>PHIL 321 Eastern Philosophy | 6 |
| *Total* | 25 |

## Basque Studies Minor

| *Course Number and Title* | *Credits* |
|---|---|
| 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>SPANISH 450 Basque Literature in Spanish Translation<br>SPANISH 491 Basque Cinema<br>SPANISH 494 Workshop in Basque Studies | 15 |
| *Total* | 23 |
| Note: BASQUE courses are taught in Basque. BASQ-STD courses are taught in English. SPANISH courses are taught in Spanish | |

## French Minor

| *Course Number and Title* | *Credits* |
|---|---|
| FRENCH 201-202 Intermediate French I and II | 6 |
| FRENCH 203 Intermediate French Conversation | 2 |
| FRENCH 303 Advanced French Conversation and Composition | 3 |
| FRENCH 304 Intro to French and Francophone Literatures | 3 |
| FRENCH 412 Advanced French Grammar and Pronunciation | 3 |
| FRENCH 376 French Culture and Civilization or<br>FRENCH 475 France Today or<br>FRENCH 485 The Francophone World Today | 3 |
| Upper-division French courses | 3 |
| *Total* | 23 |

## French for Business Minor

| *Course Number and Title* | *Credits* |
|---|---|
| FRENCH 201-202 Intermediate French I and II | 6 |
| FRENCH 203 Intermediate French Conversation | 2 |
| FRENCH 303 Advanced French Conversation and Composition | 3 |
| FRENCH 307 French for Business | 3 |
| FRENCH 412 Advanced French Grammar and Pronunciation | 3 |
| FRENCH 376 French Culture and Civilization or<br>FRENCH 475 France Today or<br>FRENCH 485 The Francophone World Today | 3 |
| Upper-division French courses | 3 |
| *Total* | 23 |

## German Minor

| *Course Number and Title* | *Credits* |
|---|---|
| GERMAN 201-202 Intermediate German I and II | 6 |
| GERMAN 203 Intermediate German Conversation | 2 |
| GERMAN 303 Advanced German Conversation & Composition | 3 |
| GERMAN 304 Introduction to German Literature | 3 |
| GERMAN 377 German Culture and Civilization | 3 |
| Upper-division German courses | 6 |
| *Total* | 23 |

## German for Business Minor

| *Course Number and Title* | *Credits* |
|---|---|
| GERMAN 201-202 Intermediate German I and II | 6 |
| GERMAN 203 Intermediate German Conversation | 2 |
| GERMAN 303 Advanced German Conversation & Composition | 3 |
| GERMAN 307 Business German | 3 |
| GERMAN 412 Advanced German Grammar and Syntax | 3 |
| GERMAN 475 The German-Speaking World Today | 3 |
| Upper-division German courses | 3 |
| *Total* | 23 |

## Japanese Studies Minor

| *Course Number and Title* | *Credits* |
|---|---|
| HIST 121 Eastern Civilizations | 3 |
| JAPANESE 101 or JAPANESE 111 & 112 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>FORLNG 310 Japanese Culture and Society<br>JAPANESE 301 Advanced Japanese I<br>PHIL 321 Eastern Philosophy | 6 |
| *Total* | 25 |

## Latin Minor

| *Course Number and Title* | *Credits* |
|---|---|
| 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 257 World Literature I<br>ENGL 341 Medieval Literature<br>HIST 101 History of Western Civilization<br>HIST 302 Ancient Rome<br>HIST 305 Medieval Europe<br>HLTHST 101 Medical Terminology<br>PHIL 305 Ancient Greek Philosophy<br>PHIL 307 Medieval Philosophy | 3 |
| *Total* | 23 |

## Latin American and Latino/a Studies Minor

| *Course Number and Title* | *Credits* |
|---|---|
| SPANISH 201 Intermediate Spanish I | 4 |
| SPANISH 202 or 203 Intermediate Spanish II | 4 |
| Electives in at least three different disciplines chosen from:<br>HIST 131 Survey of Latin America<br>HIST 361 Colonial Latin America<br>HIST 362 Modern Latin America<br>HIST 363 History of Mexico<br>POLS 423 Latin American Politics<br>SOC 332 Introduction to Mexican-American Studies<br>SOC 333 Contemporary Issues of Chicanas/Chicanos<br>SPANISH 303 Advanced Spanish Conversation & Composition<br>SPANISH 313 Advanced Spanish Conversation and Composition for Native Speakers<br>SPANISH 377 Latin American Civilization and Culture<br>SPANISH 385 Mexican American Culture and Civilization<br>SPANISH 403 Survey of Latin American Literature I<br>SPANISH 404 Survey of Latin American Literature II<br>SPANISH 425 Mexican American Literature<br>SPANISH 430 Topics in Latin American Literature<br>SPANISH 475 Latin America Today<br>SPANISH 476 Human Rights in Latin America | 15 |
| *Total* | 23 |
| Note: SPANISH courses are taught in Spanish. All others are taught in English. | |

## Spanish Minor

| *Course Number and Title* | *Credits* |
|---|---|
| SPANISH 201-202 or SPANISH 201, 203 Intermediate Spanish | 8 |
| SPANISH 303 or SPANISH 313 Advanced Spanish Conversation and Composition | 3 |
| SPANISH 304 Introduction to Hispanic Literature | 3 |
| SPANISH 412 Advanced Spanish Grammar and Syntax | 4 |
| SPANISH 376 Spanish Peninsular Culture & Civilization or SPANISH 377 Latin American Culture and Civilization or SPANISH 385 Mexican American Culture and Civilization | 3 |
| Upper-division Spanish courses | 3 |
| *Total* | 24 |

## Spanish for Business Minor

| *Course Number and Title* | *Credits* |
|---|---|
| SPANISH 201-202 or SPANISH 201, 203 Intermediate Spanish | 8 |
| SPANISH 303 Advanced Spanish Conversation & Composition | 3 |
| SPANISH 305 Spanish for Business | 3 |
| SPANISH 480 Advanced Business Spanish | 3 |
| SPANISH 376 Spanish Peninsular Culture & Civilization or SPANISH 377 Latin American Culture and Civilization or SPANISH 385 Mexican American Culture and Civilization | 3 |
| Upper-division Spanish courses | 3 |
| *Total* | 23 |

## Elementary American Sign Language Certificate

| *Course Number and Title* | *Credits* |
|---|---|
| ASL 101 or ASL 111-112 American Sign Language I | 4 |
| ASL 102 American Sign Language II | 4 |
| *Total* | 8 |

## Intermediate American Sign Language Certificate

| *Course Number and Title* | *Credits* |
|---|---|
| ASL 101 or ASL 111-112 American Sign Language I | 4 |
| ASL 102 American Sign Language II | 4 |
| ASL 201-202 American Sign Language III and IV | 8 |
| *Total* | 16 |

## Elementary Arabic Certificate

| *Course Number and Title* | *Credits* |
|---|---|
| ARABIC 101-102 Elementary Arabic I and II | 8 |
| *Total* | 8 |

## Intermediate Arabic Certificate

| *Course Number and Title* | *Credits* |
|---|---|
| ARABIC 101-102 Elementary Arabic I and II | 8 |
| ARABIC 201-202 Intermediate Arabic I and II | 8 |
| *Total* | 16 |

| Elementary Basque Certificate | |
|---|---|
| *Course Number and Title* | *Credits* |
| BASQUE 101-102 Elementary Basque I and II | 8 |
| *Total* | 8 |

| Intermediate Basque Certificate | |
|---|---|
| *Course Number and Title* | *Credits* |
| BASQUE 101-102 Elementary Basque I and II | 8 |
| BASQUE 201-202 Intermediate Basque I and II | 6 |
| *Total* | 14 |

| Elementary French Certificate | |
|---|---|
| *Course Number and Title* | *Credits* |
| FRENCH 101-102 Elementary French I and II | 8 |
| *Total* | 8 |

| Intermediate French Certificate | |
|---|---|
| *Course Number and Title* | *Credits* |
| FRENCH 101-102 Elementary French I and II | 8 |
| FRENCH 201-202 Intermediate French I and II | 6 |
| *Total* | 14 |

| Elementary German Certificate | |
|---|---|
| *Course Number and Title* | *Credits* |
| GERMAN 101-102 Elementary German I and II | 8 |
| *Total* | 8 |

| Intermediate German Certificate | |
|---|---|
| *Course Number and Title* | *Credits* |
| GERMAN 101-102 Elementary German I and II | 8 |
| GERMAN 201-202 Intermediate German I and II | 6 |
| *Total* | 14 |

| Elementary Japanese Certificate | |
|---|---|
| *Course Number and Title* | *Credits* |
| JAPANESE 101-102 Elementary Japanese I and II | 8 |
| *Total* | 8 |

| Intermediate Japanese Certificate | |
|---|---|
| *Course Number and Title* | *Credits* |
| JAPANESE 101-102 Elementary Japanese I and II | 8 |
| JAPANESE 201-202 Intermediate Japanese I and II | 6 |
| *Total* | 14 |

| Elementary Korean Certificate | |
|---|---|
| *Course Number and Title* | *Credits* |
| KOREAN 101-102 Elementary Korean I and II | 8 |
| *Total* | 8 |

| Intermediate Korean Certificate | |
|---|---|
| *Course Number and Title* | *Credits* |
| KOREAN 101-102 Elementary Korean I and II | 8 |
| KOREAN 201-202 Intermediate Korean I and II | 8 |
| *Total* | 16 |

| Elementary Latin Certificate | |
|---|---|
| *Course Number and Title* | *Credits* |
| LATIN 211 Elementary Classical Latin | 4 |
| LATIN 212 Advanced Classical Latin | 4 |
| *Total* | 8 |

| Intermediate Latin Certificate | |
|---|---|
| *Course Number and Title* | *Credits* |
| 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 |
| *Total* | 14 |

| Elementary Mandarin Chinese Certificate | |
|---|---|
| *Course Number and Title* | *Credits* |
| CHINESE 101-102 Elementary Mandarin Chinese I and II | 8 |
| *Total* | 8 |

| Intermediate Mandarin Chinese Certificate | |
|---|---|
| *Course Number and Title* | *Credits* |
| CHINESE 101-102 Elementary Mandarin Chinese I and II | 8 |
| CHINESE 201-202 Intermediate Mandarin Chinese I and II | 8 |
| *Total* | 16 |

| Elementary Spanish Certificate | |
|---|---|
| *Course Number and Title* | *Credits* |
| SPANISH 101 or SPANISH 111-112 Elementary Spanish I | 4 |
| SPANISH 102 Elementary Spanish II | 4 |
| *Total* | 8 |

| Intermediate Spanish Certificate | |
|---|---|
| *Course Number and Title* | *Credits* |
| SPANISH 101 or SPANISH 111-112 Elementary Spanish I | 4 |
| SPANISH 102 Elementary Spanish II | 4 |
| SPANISH 201-202 Intermediate Spanish I and II | 8 |
| *Total* | 16 |

| Foreign Language Teaching Endorsement | |
|---|---|
| *Course Number and Title* | *Credits* |
| FORLNG 410 Approaches to Foreign Language Education | 3 |
| LING 305 Introduction to Language Studies | 3 |
| **French** | |
| FRENCH 101 or 111-112 Elementary French I | 4 |
| FRENCH 102 Elementary French II | 4 |
| FRENCH 201-202-203 Intermediate French | 8 |
| FRENCH 303 Advanced French Conversation and Composition | 3 |
| FRENCH 304 Intro to French and Francophone Literature | 3 |
| FRENCH 376 French Culture | 3 |
| FRENCH 412 Advanced French Grammar and Pronunciation | 3 |
| *Total* | 28 |
| **German** | |
| GERMAN 101-102 Elementary German I and II | 8 |
| GERMAN 201-202-203 Intermediate German | 8 |
| GERMAN 303 Advanced German Conversation & Composition | 3 |
| GERMAN 304 Introduction to German Literature | 3 |
| GERMAN 377 German Culture and Civilization | 3 |
| GERMAN 412 Advanced German Grammar and Syntax | 3 |
| *Total* | 28 |
| **Spanish** | |
| SPANISH 101 or 111-112 Elementary Spanish I | 4 |
| SPANISH 102 Elementary Spanish II | 4 |
| SPANISH 201-202 or SPANISH 201-203 Intermediate Spanish | 8 |
| SPANISH 303 or SPANISH 313 Advanced Spanish Conversation and Composition | 3 |
| SPANISH 304 Introduction to Hispanic Literature | 3 |
| SPANISH 412 Advanced Spanish Grammar and Syntax | 4 |
| SPANISH 376 Spanish Peninsular Culture & Civilization or SPANISH 377 Latin American Culture and Civilization or SPANISH 385 Mexican American Culture and Civilization | 3 |
| *Total* | 29 |
| See Department of Curriculum, Instruction, and Foundational Studies for more information. | |

## Course Offerings

**See page 63 for a definition of the course-numbering system.**

**ARABIC**

**Lower Division**

**ARABIC 101 ELEMENTARY ARABIC I (4-1-4)(F)(DLL).** 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)(DLL).** 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)(DLL).** 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)(DLL).** 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)(DLL).** 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. Students who successfully complete this course may not receive credit for ASL 111 or ASL 112.

**ASL 102 AMERICAN SIGN LANGUAGE II (4-1-4)(S)(DLL).** 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 ASL 112 or PERM/INST.

**ASL 111 AMERICAN SIGN LANGUAGE ONLINE 101A (2-1-2)(F/S) (DLL).** Develops beginning abilities in all 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. First half of ASL 101. Students who successfully complete this course may not receive credit for ASL 101 and must successfully complete ASL 112 with a grade of C- or higher to receive DLL credit for ASL 111.

**ASL 112 AMERICAN SIGN LANGUAGE ONLINE 101B (2-1-2)(F/S) (DLL).** Continuation of ASL 111. Second half of ASL 101. Students who successfully complete this course may not receive credit for ASL 101 and must successfully complete ASL 111 with a grade of C- or higher to receive DLL credit for ASL 112. PREREQ: ASL 111.

**ASL 201 AMERICAN SIGN LANGUAGE III (4-1-4)(F)(DLL).** 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)(DLL).** 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**

**Lower Division**

**BASQUE 101 ELEMENTARY BASQUE I (4-1-4)(F)(DLL).** 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)(DLL).** 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)(DLL).** 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)(DLL).** 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**

**Lower Division**

**BOSNIAN 101 ELEMENTARY BOSNIAN I (4-1-4)(F/S/SU)(DLL).** 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 – Mandarin Chinese**

**Lower Division**

**CHINESE 101 ELEMENTARY MANDARIN CHINESE I (4-1-4)(F) (DLL).** 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. Students who successfully complete this course may not receive credit for CHINESE 111 or CHINESE 112.

**CHINESE 102 ELEMENTARY MANDARIN CHINESE II (4-1-4)(S) (DLL).** 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 111 ELEMENTARY MANDARIN CHINESE ONLINE 101A (2-1-2)(F/S).** 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 Chinese cultures. First half of CHINESE 101. Students who successfully complete this course may not receive credit for CHINESE 101 and must successfully complete CHINESE 112 with a grade of C- or higher to receive DLL credit for CHINESE 111.

**CHINESE 112 ELEMENTARY MANDARIN CHINESE ONLINE 101B (2-1-2)(F/S).** Continuation of CHINESE 111. Second half of CHINESE 101. Students who successfully complete this course may not receive credit for CHINESE 101 and must successfully complete CHINESE 111 with a grade of C- or higher to receive DLL credit for CHINESE 112. PREREQ: CHINESE 111.

**CHINESE 201 INTERMEDIATE MANDARIN CHINESE I (4-1-4)(F) (DLL).** 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) (DLL).** 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.

**FORLNG – Foreign Language**

**Lower Division**

**FORLNG 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.

**FORLNG 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**

**FORLNG 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.

**FORLNG 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. PREREQ: HIST 121.

**FORLNG 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.

**FORLNG 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 (or ENGL 112).

**FORLNG 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 (or ENGL 112).

**FORLNG 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 (or ENGL 112).

**FORLNG 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 (or ENGL 112).

**FORLNG 410 APPROACHES TO FOREIGN LANGUAGE EDUCATION (3-0-3)(F,S).** An overview of theories of language acquisition and of changing pedagogical practices in secondary foreign language education. Examination of contemporary approaches to language teaching and learning, from practical as well as theoretical perspectives. Topics may include communicative competence, the oral proficiency interview, assessment techniques, syllabus preparation, development of lesson plans, and the integration of cultural components with the four skills: listening, speaking, reading, and writing. PREREQ: Minimum of six credits upper-division language or PERM/INST. PRE/COREQ: LING 305.

**FRENCH**

**Lower Division**

**FRENCH 101 ELEMENTARY FRENCH I (4-1-4)(F)(DLL).** 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. Students who successfully complete this course may not receive credit for FRENCH 111 or FRENCH 112.

**FRENCH 102 ELEMENTARY FRENCH II (4-1-4)(S)(DLL).** 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: FRENCH 101 or FRENCH 112 or equivalent as determined by placement exam.

**FRENCH 111 ELEMENTARY FRENCH ONLINE 101A (2-1-2)(F/S)(DLL).** 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 French and francophone cultures. First half of FRENCH 101. Students who successfully complete this course may not receive credit for FRENCH 101 and must successfully complete FRENCH 112 with a grade of C- or higher to receive DLL credit for FRENCH 111.

**FRENCH 112 ELEMENTARY FRENCH ONLINE 101B (2-1-2)(F/S)(DLL).** Continuation of FRENCH 111. Second half of FRENCH 101. Students who successfully complete this course may not receive credit for FRENCH 101 and must successfully complete FRENCH 111 with a grade of C- or higher to receive DLL credit for FRENCH 112. PREREQ: FRENCH 111.

**FRENCH 201 INTERMEDIATE FRENCH I (3-1-3)(F)(DLL).** 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: FRENCH 102 or equivalent as determined by placement exam or PERM/INST.

**FRENCH 202 INTERMEDIATE FRENCH II (3-1-3)(S)(DLL).** 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: FRENCH 201 or equivalent as determined by placement exam or PERM/INST.

**FRENCH 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: FRENCH 102 or equivalent or PERM/INST.

**Upper Division**

**FRENCH 303 ADVANCED FRENCH CONVERSATION AND COMPOSITION (3-0-3)(F)(CID).** 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 (or ENGL 112), FRENCH 202 and FRENCH 203 or PERM/INST.

**FRENCH 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: FRENCH 202 and FRENCH 203 or PERM/INST.

**FRENCH 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 e-mail. Simulation of a commercial enterprise from beginning to end: creation, location, legal aspects, hiring, contracts, preparing resumes, etc. Frequent writing assignments. Course conducted in French. PREREQ: FRENCH 202 and FRENCH 203 or PERM/INST.

**FRENCH 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: FRENCH 202 and FRENCH 203 or PERM/INST.

**FRENCH 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: FRENCH 304.

**FRENCH 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: FRENCH 303.

**FRENCH 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: FRENCH 304.

**FRENCH 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: FRENCH 304.

**FRENCH 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: FRENCH 303.

**FRENCH 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: FRENCH 303.

**FRENCH 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: FRENCH 304.

**FRENCH 498 SENIOR SEMINAR (3-0-3)(F)(FF).** A capstone, exit requirement course. Topic chosen by 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 must be taken at least one semester prior to graduation and includes an exit oral proficiency interview. Course conducted in French. PREREQ: FRENCH 304 or PERM/INST.

**GERMAN**

**Lower Division**

**GERMAN 101 ELEMENTARY GERMAN I (4-1-4)(F)(DLL).** 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.

**GERMAN 102 ELEMENTARY GERMAN II (4-1-4)(S)(DLL).** 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: GERMAN 101 or PERM/INST.

**GERMAN 201 INTERMEDIATE GERMAN I (3-1-3)(F)(DLL).** 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: GERMAN 102 or PERM/INST.

**GERMAN 202 INTERMEDIATE GERMAN II (3-1-3)(S)(DLL).** 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: GERMAN 201 or PERM/INST.

**GERMAN 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: GERMAN 102 or PERM/INST.

**Upper Division**

**GERMAN 303 ADVANCED GERMAN CONVERSATION AND COMPOSITION (3-0-3)(F)(CID).** 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 (or ENGL 112), GERMAN 202 and GERMAN 203 or PERM/INST.

**GERMAN 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: GERMAN 202 and GERMAN 203 or PERM/INST.

**GERMAN 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: GERMAN 202 and GERMAN 203 or PERM/INST.

**GERMAN 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: GERMAN 303 or PERM/INST.

**GERMAN 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: GERMAN 304 or PERM/INST.

**GERMAN 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: GERMAN 304 or PERM/INST.

**GERMAN 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: GERMAN 303 or PERM/INST.

**GERMAN 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: GERMAN 304 or PERM/INST.

**GERMAN 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: GERMAN 304 or PERM/INST.

**GERMAN 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: GERMAN 303 or PERM/INST.

**GERMAN 477 WOMEN'S LITERATURE OF THE GERMAN-SPEAKING WORLD (3-0-3)(F)(Even 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: GERMAN 304 or PERM/INST.

**GERMAN 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: GERMAN 304.

**GERMAN 498 SENIOR SEMINAR (3-0-3)(F)(FF).** A capstone, exit requirement course. Topic chosen by 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.

**JAPANESE**

**Lower Division**

**JAPANESE 101 ELEMENTARY JAPANESE I (4-1-4)(F)(DLL).** 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. Students who successfully complete this course may not receive credit for JAPANESE 111 or JAPANESE 112.

**JAPANESE 102 ELEMENTARY JAPANESE II (4-1-4)(S)(DLL).** 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 JAPANESE 112 or PERM/INST.

**JAPANESE 111 ELEMENTARY JAPANESE ONLINE 101A (2-1-2)(F/S) (DLL).** 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 Japanese culture. First half of JAPANESE 101. Students who successfully complete this course may not receive credit for JAPANESE 101 and must successfully complete JAPANESE 112 with a grade of C- or higher to receive DLL credit for JAPANESE 111.

**JAPANESE 112 ELEMENTARY JAPANESE ONLINE 101B (2-1-2)(F/S) (DLL).** Continuation of JAPANESE 111. Second half of JAPANESE 101. Students who successfully complete this course may not receive credit for JAPANESE 101 and must successfully complete JAPANESE 111 with a grade of C- or higher to receive DLL credit for JAPANESE 112. PREREQ: JAPANESE 111.

**JAPANESE 201 INTERMEDIATE JAPANESE I (4-1-4)(F)(DLL).** 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)(DLL).** 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.

**KOREAN**

**Lower Division**

**KOREAN 101 ELEMENTARY KOREAN I (4-1-4)(F)(DLL).** 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)(DLL).** 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 201 INTERMEDIATE KOREAN I (4-1-4)(F)(DLL).** 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)(DLL).** 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.

**LATIN**

**Lower Division**

**LATIN 211 ELEMENTARY CLASSICAL LATIN (4-1-4)(F)(DLL).** 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)(DLL).** 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.

**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.

## PORTUGUESE

**Lower Division**

**PORTUGUESE 101 ELEMENTARY PORTUGUESE I (4-1-4)(F)(DLL).** 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.

**PORTUGUESE 102 ELEMENTARY PORTUGUESE II (4-1-4)(S)(DLL).** 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: PORTUGUESE 101 or satisfactory placement score.

## SPANISH

**Lower Division**

**SPANISH 101 ELEMENTARY SPANISH I (4-1-4)(F,S)(DLL).** Develops beginning abilities in all four language skills: speaking, reading, writing, and listening. Offers a basic study of grammatical structures and vocabulary in communicative context. Introduces students to Hispanic culture. Students who successfully complete this course may not receive credit for SPANISH 111 or SPANISH 112.

**SPANISH 102 ELEMENTARY SPANISH II (4-1-4)(F,S)(DLL).** 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: SPANISH 101 or SPANISH 112 or satisfactory placement score.

**SPANISH 111 ELEMENTARY SPANISH ONLINE 101A (2-1-2)(F,S)(DLL).** 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 Hispanic cultures. Internet access, CD-ROM capability and telephone required for this online, mastery-based course with no classroom instruction. First half of SPANISH 101. Students who successfully complete this course may not receive credit for SPANISH 101, and must successfully complete SPANISH 112 with a grade of C- or higher to receive DLL credit for SPANISH 111.

**SPANISH 112 ELEMENTARY SPANISH ONLINE 101B (2-1-2)(F,S)(DLL).** Continuation of SPANISH 111. Internet access, CD-ROM capability and telephone required for this online, mastery-based course with no classroom instruction. Second half of SPANISH 101. Students who successfully complete this course may not receive credit for SPANISH 101, and must successfully complete SPANISH 111 with a grade of C- or higher to receive DLL credit for SPANISH 112. PREREQ: SPANISH 111.

**SPANISH 201 INTERMEDIATE SPANISH I (4-1-4)(F,S)(DLL).** 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: SPANISH 102 or satisfactory placement score.

**SPANISH 202 INTERMEDIATE SPANISH II (4-1-4)(F,S)(DLL).** 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: SPANISH 201 or satisfactory placement score.

**SPANISH 203 INTERMEDIATE SPANISH FOR THE NATIVE OR NEAR-NATIVE SPEAKER (4-1-4)(F/S)(DLL).** A course designed for students with native or near-native speaking ability, but with little or no formal training in grammar, reading and writing. Provides introduction to and practice in the formal register in all four skills: reading, writing, listening, and speaking. Topics for conversation, reading and writing focus on U.S. Latino cultures. Students who qualify for this course may not receive credit for SPANISH 202. Course conducted in Spanish. PREREQ: SPANISH 201 or equivalent as determined by placement exam and/or PERM/INST.

**Upper Division**

**SPANISH 303 ADVANCED SPANISH CONVERSATION AND COMPOSITION (3-0-3)(F,S)(CID).** Expands ability in all four skills: reading, writing, speaking, and listening with special emphasis on accuracy in the formal registers of spoken and written Spanish. Offers analysis of grammar and expansion of vocabulary through cultural and literary readings. Discussion of topics related to Hispanic contemporary trends. Frequent writing assignments. Course conducted in Spanish. Concurrent enrollment in SPANISH 311 and SPANISH 312 or SPANISH 412 recommended. PREREQ: ENGL 102 (or ENGL 112), SPANISH 202 or SPANISH 203 or satisfactory placement score or PERM/INST.

**SPANISH 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: SPANISH 303 or SPANISH 313.

**SPANISH 305 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: SPANISH 303 or SPANISH 313.

**SPANISH 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: SPANISH 202 or SPANISH 203, or satisfactory placement score or PERM/INST.

**SPANISH 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 SPANISH 303 recommended. Course conducted in Spanish. (Pass/Fail.) PREREQ: SPANISH 202 or SPANISH 203, or satisfactory placement score or PERM/INST.

**SPANISH 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 SPANISH 303 recommended. Course conducted in Spanish. (Pass/Fail.) PREREQ: SPANISH 202 or SPANISH 203, or satisfactory placement score or PERM/INST.

**SPANISH 313 ADVANCED SPANISH CONVERSATION AND COMPOSITION FOR NATIVE SPEAKERS (3-0-3)(F/S)(CID).** Course content equivalent to SPANISH 303. Designed for students with native or near-native speaking ability. PREREQ: ENGL 102 (or ENGL 112), SPANISH 202 or SPANISH 203 or satisfactory placement score or PERM/INST.

**SPANISH 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: SPANISH 202 or PERM/INST.

**SPANISH 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: SPANISH 303 or SPANISH 313.

**SPANISH 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: SPANISH 303 or SPANISH 313.

**SPANISH 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 (or ENGL 112), SPANISH 303 or SPANISH 313, SPANISH 412.

**SPANISH 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 (or ENGL 112), SPANISH 303 or SPANISH 313, SPANISH 412.

**SPANISH 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: SPANISH 303 or SPANISH 313.

**SPANISH 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: SPANISH 377. PREREQ: SPANISH 304.

**SPANISH 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: SPANISH 377. PREREQ: SPANISH 304.

**SPANISH 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: SPANISH 376. PREREQ: SPANISH 304.

**SPANISH 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 18th 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: SPANISH 376. PREREQ: SPANISH 304.

**SPANISH 412 ADVANCED SPANISH GRAMMAR AND SYNTAX (4-0-4) (F,S).** An intensive study of the formal written and spoken registers of Spanish. Also develops an awareness of and sensitivity to the variety of spoken and written registers, especially those of Spanish in the United States. Special emphasis on appropriateness in the written register. Frequent writing assignments. Course conducted in Spanish. PREREQ: SPANISH 202 or SPANISH 203.

**SPANISH 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: SPANISH 412.

**SPANISH 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: SPANISH 415. PREREQ: SPANISH 412.

**SPANISH 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: SPANISH 385. PREREQ: SPANISH 304.

**SPANISH 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: SPANISH 304.

**SPANISH 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: SPANISH 304.

**SPANISH 450 BASQUE LITERATURE IN SPANISH TRANSLATION (3-0-3)(F/S).** Analysis of the evolution of written literature in the Basque Country from the 15th century to the present.

**SPANISH 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: SPANISH 377. PREREQ: SPANISH 303 or SPANISH 313.

**SPANISH 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: SPANISH 377. PREREQ: SPANISH 303 or SPANISH 313.

**SPANISH 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: SPANISH 304.

**SPANISH 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: SPANISH 303 and SPANISH 305.

**SPANISH 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: SPANISH 304.

**SPANISH 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: SPANISH 202 or 203.

**SPANISH 498 SENIOR SEMINAR (3-0-3)(F,S)(FF).** A capstone, exit requirement course. Topic chosen by 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: SPANISH 403 or SPANISH 404 or SPANISH 405 or SPANISH 406.

## Zoology — see Department of Biological Sciences

# Administration, Faculty and Emeriti

## Boise State University Administration

**President**
Robert W. Kustra

**Provost and Vice President for Academic Affairs**
Martin E. Schimpf

**Vice President for Finance and Administration**
Stacy Pearson

**Vice President for Student Affairs**
Lisa B. Harris

**Vice President for University Advancement**
Laura Simic

**Vice President for Research and Economic Development**
Mark Rudin

**Vice President for Campus Operations and General Counsel**
Kevin Satterlee

**Dean of Honors College**
Andrew Finstuen

**Dean of University Libraries**
Tracy Bicknell-Holmes

**College of Arts and Sciences**
Dean, Tony Roark

**College of Business and Economics**
Dean, Kenneth Petersen

**College of Education**
Dean, Richard Osguthorpe

**College of Engineering**
Dean, Amy Moll

**College of Health Science**
Dean, Tim Dunnagan

**College of Innovation and Design**
Dean, Gordon Jones

**School of Public Service**
TBA

**Graduate College**
Dean, John R. Pelton

**Division of Extended Studies**
Dean, Mark Wheeler

## Boise State University Tenured and Tenure Track Faculty

Note: The date listed is the year of first appointment.

### A

Aagard, Mary ..... (2011)
Assistant Professor, Head, Access Services, Albertsons Library; M.S., Indiana University

Adams, Carolyn..... (2012)
Assistant Professor, Librarian, Albertsons Library; M.S., Wayne State University

Ahmed-Zaid, Said ..... (1996)
Associate Professor, Electrical and Computer Engineering; Ph.D., University of Illinois at Urbana–Champaign

Ahten, Sara M. ..... (2002)
Associate Professor, Nursing; M.S., St. Joseph's College

Albig, Allan ..... (2012)
Assistant Professor, Biological Sciences; Ph.D., Washington State University

Allen, Michael ..... (2012)
Assistant Professor, Political Science; Ph.D., Binghamton University

Allen, Robin W..... (1997)
Associate Professor, Social Work; Ph.D., University of Illinois at Urbana–Champaign

Allred, Keith W. ..... (2007)
Associate Professor, Early and Special Education; Ph.D., Vanderbilt University

Andersen, Timothy..... (2001)
Professor, Chair, Computer Science; Ph.D., Brigham Young University

Anderson, Jeffrey M. ..... (1986)
Associate Professor, Respiratory Care; M.A., Boise State University

AnnieMargaret, Jill..... (2006)
Associate Professor, Art; M.F.A., California State University, Long Beach

Anson, Robert ..... (1990)
Professor, Director, Academic Systems, Information Technology and Supply Chain Management; Ph.D., Indiana University

Arispe, Kelly..... (2012)
Assistant Professor, World Languages; Ph.D., University of California, Davis

Armstrong, Michelle..... (2005)
Associate Professor, Librarian, Albertsons Library; M.S., University of North Texas

Armstrong, James ..... (1992)
Professor, Literacy, Languages and Cultures; Ph.D., University of Illinois at Urbana–Champaign

Ashley, Seth D. ..... (2011)
Assistant Professor, Communication; Ph.D., University of Missouri, Columbia

Ashworth, Lonny J. ..... (1977)
Professor, Respiratory Care; M.Ed., College of Idaho

Atlakson, Philip..... (1985)
Professor, Theatre Arts; M.A., State University of New York at Binghamton

Ausman, Kevin ..... (2014)
Assistant Professor, Chemistry and Biochemistry; Ph.D., Rice University

### B

Babinkostova, Liljana ..... (2007)
Associate Professor, Mathematics; Ph.D., University of St. Cyril and Methodius, Macedonia

Bacon, Stephanie ..... (1996)
Professor, Art; M.F.A., Brooklyn College

Baek, Youngkyun ..... (2010)
Professor, Educational Technology; Ph.D., Georgia State University

Bahnson, Paul R. ..... (1999)
Professor, Accountancy; Ph.D., University of Utah

Bahruth, Robert ..... (1988)
Professor, Bilingual Education; Ph.D., University of Texas at Austin

Baker, Ed (2002)
Professor, Director, Center for Health Policy, Professor, Community and Environmental Health; Ph.D., Temple University

Baldwin, John B. ..... (1971)
Professor, Music; Ph.D., Michigan State University

Ball, Jeremy ..... (2004)
Associate Professor, Chair, Criminal Justice; Ph.D., University of Nebraska, Omaha

Ballenger, Bruce ..... (1995)
Professor, English; Ph.D., University of New Hampshire

Baltzell, Michael L..... (1991)
Associate Professor, Theatre Arts; M.F.A., Idaho State University

Bammel, Brad P. ..... (1988)
Associate Professor, Chair, Chemistry and Biochemistry; Ph.D., University of New Orleans

Barber, Jesse R. ..... (2011)
Assistant Professor, Biological Sciences; Ph.D., Wake Forest University

Barbour, Barton..... (2001)
Professor, History; Ph.D., University of New Mexico

Barney Smith, Elisa ..... (1999)
Professor, Electrical and Computer Engineering; Ph.D., Rensselaer Polytechnic Institute

Basu Thakur, Gautam..... (2011)
Assistant Professor, English; D.M.L., University of Illinois at Urbana–Champaign

Baughn, C. Christopher ..... (1995)
Professor, Management; Ph.D., Wayne State University

Baxter, Ryan ..... (2014)
Assistant Professor, Accountancy; Ph.D., Case Western Reserve University

Bechard, Marc Joseph..... (1983)
Professor, Biological Sciences; Ph.D., Washington State University

Belfy, Jeanne Marie..... (1983)
Professor, Music; Ph.D., University of Kentucky

Bell, Kenneth ..... (1997)
Associate Professor, Kinesiology; Ph.D., Virginia Polytechnic Institute and State University

Belthoff, James ..... (1993)
Professor, Biological Sciences; Ph.D., Clemson University

Benner, Shawn ..... (2004)
Associate Professor, Geosciences; Ph.D., University of Waterloo

Berg, Lynn R. ..... (1984)
Professor, Music; D.M.A., University of Wisconsin, Madison

Bicknell-Holmes, Tracy ..... (2013)
Dean, Professor, Albertsons Library; MBA, M.L.S., University of Nebraska, University of Illinois

Biedenbender, David ..... (2014)
Assistant Professor, Music; Ph.D., University of Michigan

Bieter, John Jr. ..... (2004)
Associate Professor, History; Ph.D., Boston College

Black, Meredith..... (2012)
Assistant Professor, International Business; Ph.D., University of Bern

Black, Geoffrey A. ..... (2000)
Associate Professor, Economics; Ph.D., University of Washington

Blain, Michael ..... (1982)
Professor, Sociology; Ph.D., University of Colorado, Boulder
Blakeslee, Laurie ..... (2000)
Associate Professor, Art; M.F.A., University of Arizona
Bolter, Nicole ..... (2012)
Assistant Professor, Kinesiology; Ph.D., University of Minnesota
Bostaph, Lisa G. ..... (2003)
Associate Professor, Criminal Justice; Ph.D., University of Cincinnati
Boucher, Teresa ..... (1994)
Professor, Int. Chair, Communication, World Languages; Ph.D., Princeton University
Bradford, John ..... (2001)
Professor, Geosciences; Ph.D., Rice University
Brady, Lisa Marie ..... (2003)
Professor, History; Ph.D., University of Kansas
Brand, Brittany ..... (2013)
Assistant Professor, Geosciences; Ph.D., Arizona State University
Breitkreuz, Karen R. ..... (2011)
Assistant Professor, Nursing; Ed.D., Teachers College Columbia University
Brendefur, Jonathan ..... (2000)
Professor, Director, Institute for DMT, Curriculum Instruction and Foundational Studies; Ph.D., University of Wisconsin, Madison
Brill, Stephen H. ..... (1998)
Associate Professor, Mathematics; Ph.D., University of Vermont
Brin, Beth L. ..... (1995)
Associate Professor, Librarian, Albertsons Library; M.L.S., San Jose State University
Brown, Deana ..... (2014)
Assistant Professor, Librarian, Albertsons Library; M.L.S., Emporia State University
Brown, Eric ..... (2006)
Associate Professor, Chemistry and Biochemistry; Ph.D., Oregon State University
Brown, Marcellus ..... (1989)
Associate Professor, Music; M.M., University of Michigan
Browning, Jim ..... (2006)
Associate Professor, Electrical and Computer Engineering; Ph.D., University of Wisconsin, Madison
Buchanan, Mark A. ..... (1996)
Professor, Director, International Business; J.D., University of Nebraska, Lincoln
Budde, James ..... (1994)
Professor, Art; M.F.A., California State University, Fullerton
Buffenbarger, James ..... (1991)
Associate Professor, Computer Science; Ph.D., University of California, Davis
Bullock, Douglas ..... (1995)
Associate Professor, Mathematics; Ph.D., University of Iowa
Burkhart, Ross E. ..... (1997)
Professor, Political Science; Ph.D., University of Iowa
Burns, Joie ..... (1994)
Associate Professor, Radiologic Sciences; M.S., Boise State University
Butt, Darryl ..... (2005)
Distinguished Professor, Director, Center for Advanced Energy Studies, Materials Science and Engineering; Ph.D., Pennsylvania State University

## C

Cahill, Mary ..... (2004)
Associate Professor, Literacy, Languages and Cultures; Ed.D., Boise State University
Caicedo, Andres ..... (2008)
Associate Professor, Mathematics; Ph.D., University of California, Berkeley
Calhoun, Donna ..... (2010)
Assistant Professor, Mathematics; Ph.D., University of Washington
Callahan, Janet ..... (2004)
Associate Dean, Professor, Engineering; Ph.D., University of Connecticut
Campbell, Cynthia ..... (2013)
Assistant Professor, Director, Family Studies, Psychology; Ph.D., Pennsylvania State University
Campbell, Kris ..... (2005)
Associate Professor, Electrical and Computer Engineering; Ph.D., University of California, Davis
Campbell, Ann ..... (2003)
Associate Professor, English; Ph.D., Emory University
Cannon, Ryan ..... (2014)
Assistant Professor, Communication; M.F.A., University of Texas at Austin
Cantley, Kurtis ..... (2013)
Assistant Professor, Electrical and Computer Engineering; Ph.D., University of Texas at Dallas
Carlson, Faye Gravitt ..... (2002)
Assistant Professor, Nursing; M.S., Idaho State University
Carman, William ..... (1998)
Professor, Art; M.F.A., Brigham Young University
Carney, Michele ..... (2012)
Assistant Professor, Curriculum Instruction and Foundational Studies; Ph.D., University of Idaho
Carter, Deborah ..... (2008)
Professor, Early and Special Education; Ph.D., University of Oregon
Casper, Mary Frances ..... (2006)
Associate Professor, Communication; Ph.D., North Dakota State University
Castellano, Rebecca ..... (2013)
Assistant Professor, Sociology; Ph.D., Ohio State University
Cavey, Laurie ..... (2009)
Associate Professor, Mathematics; Ph.D., North Carolina State University
Champion, Joe ..... (2013)
Assistant Professor, Mathematics; Ph.D., University of Northern Colorado
Charlier Jr., Henry A. ..... (2000)
Associate Professor, Chemistry and Biochemistry; Ph.D., Medical College of Wisconsin
Chase, Maggie ..... (2006)
Associate Professor, Literacy, Languages and Cultures; Ph.D., Indiana University
Chen, Hao ..... (2010)
Assistant Professor, Electrical and Computer Engineering; Ph.D., Syracuse University
Chenoweth, Timothy C. ..... (2003)
Associate Professor, Information Technology and Supply Chain Management; Ph.D., Washington State University
Chiasson, John ..... (2006)
Associate Professor, Electrical and Computer Engineering; Ph.D., University of Minnesota
Ching, Yu-hui ..... (2013)
Assistant Professor, Educational Technology; Ph.D., Pennsylvania State University
Chittoori, Bhaskar ..... (2013)
Assistant Professor, Civil Engineering; Ph.D., University of Texas at Arlington
Cho, Daehwan ..... (2010)
Assistant Professor, Communication; M.F.A., Southern Illinois University Carbondale
Chyung, Yonnie ..... (1999)
Professor, Organizational Performance and Workplace Learning; Ed.D., Texas Tech University
Clare, Ralph ..... (2011)
Assistant Professor, English; Ph.D., State University of New York at Stony Brook
Cline, Casey ..... (1998)
Associate Professor, Construction Management; Ph.D., University of Idaho
Conger, Scott ..... (2013)
Assistant Professor, Kinesiology; Ph.D., University of Tennessee
Conley, Quincy ..... (2013)
Assistant Professor, Organizational Performance and Workplace Learning; Ph.D., Arizona State University
Conley-Estrada, Rosaura ..... (2009)
Assistant Professor, Sociology; Ph.D., University of California, Irvine
Connor, Kelley ..... (2006)
Associate Professor, Nursing; M.S., University of Minnesota
Cooper, Peggy ..... (2000)
Associate Dean, Associate Professor, Albertsons Library; M.L.I.S., Louisiana State University
Cordova, Memo ..... (2003)
Associate Professor, Librarian, Albertsons Library; M.L.I.S., University of Washington
Corless-Smith, Martin ..... (2000)
Professor, English; Ph.D., University of Utah
Cornell, Kenneth A. ..... (2004)
Associate Professor, Chemistry and Biochemistry; Ph.D., Oregon Health and Sciences University
Corral, Karen ..... (2008)
Associate Professor, Information Technology and Supply Chain Management; Ph.D., Arizona State University
Cortens, Andrew ..... (1996)
Associate Professor, Chair, Philosophy; Ph.D., Syracuse University
Coskey, Samuel ..... (2012)
Assistant Professor, Mathematics; Ph.D., Rutgers University
Cowan, Mark ..... (2004)
Professor, Accountancy; J.D., University of Connecticut
Crowley, Stephen J. ..... (2006)
Associate Professor, Philosophy; Ph.D., Indiana University
Curl, Cynthia L. ..... (2014)
Assistant Professor, Community and Environmental Health; Ph.D., University of Washington
Cutchin, Steven ..... (2013)
Associate Professor, Computer Science; Ph.D., Purdue University

## D

Davis, Raquel ..... (2011)
Assistant Professor, Theatre Arts; M.F.A., New York University
Davis, Kirsten Ann ..... (2007)
Associate Professor, Construction Management; Ph.D., Virginia Polytechnic Institute and State University
Davis, Megan ..... (2012)
Assistant Professor, Librarian, Albertsons Library; M.S., University of North Carolina at Chapel Hill
Davis, Shoni Kay ..... (2005)
Associate Professor, Nursing; D.N.S., University of California, Los Angeles
de Graaff, Marie-Anne ..... (2010)
Assistant Professor, Biological Sciences; Ph.D., Wageningen University
Demps, Kathryn ..... (2012)
Assistant Professor, Anthropology; Ph.D., University of California, Davis
Devereux Herbeck, Mariah ..... (2009)
Associate Professor, World Languages; Ph.D., University of Wisconsin, Madison
Dialani, Vijay ..... (2013)
Associate Professor, Computer Science; Ph.D., University of Southampton
Dinkar, Niharika ..... (2006)
Associate Professor, Art; Ph.D., State University of New York at Stony Brook
Douglas, Whitney ..... (2012)
Assistant Professor, English; Ph.D., University of Nebraska, Lincoln
Doumas, Diana ..... (2003)
Professor, Chair, Counselor Education; Ph.D., University of Southern California
Downey, Margaret ..... (1993)
Associate Professor, Nursing; Ph.D., University of Idaho
Dubert, LeeAnn ..... (1992)
Associate Professor, Literacy, Languages and Cultures; Ph.D., University of Wisconsin, Madison
Dunnagan, Tim ..... (2010)
Dean, Health Sciences, Professor, Health Sciences; Ed.D., University of Kentucky
Durham, Leslie Atkins ..... (2001)
Associate Dean, Professor, Theatre Arts; Ph.D., University of Kansas
Dworak, Ellie ..... (2008)
Associate Professor, Librarian, Albertsons Library; M.S., University of Michigan

## E

Earley, Mary C. ..... (2010)
Associate Professor, Art; M.F.A., University of Wisconsin, Milwaukee
Elder, Thomas ..... (2001)
Associate Professor, Art; M.F.A., Iowa State University
Eliason, Meghan ..... (2014)
Assistant Professor, Curriculum Instruction and Foundational Studies; Ph.D., Oklahoma State University
English, Denise M. ..... (1987)
Professor, Accountancy; Ph.D., Indiana University
Erpelding, Chad W. ..... (2010)
Associate Professor, Art; M.F.A., Southern Illinois University Carbondale
Esp, Susan ..... (2000)
Assistant Professor, Community and Environmental Health; Ph.D., University of Idaho

Estrada, David ..... (2013)
Assistant Professor, Materials Science and Engineering; Ph.D., University of Illinois at Urbana–Champaign
Estrem, Heidi ..... (2006)
Associate Professor, Director, First-Year Writing Program, English; Ph.D., University of Nevada, Reno

## F

Farid, Arvin ..... (2008)
Associate Professor, Civil Engineering; Ph.D., Northeastern University
Ferguson, Matthew ..... (2013)
Assistant Professor, Physics; Ph.D., University of Maryland
Ferguson, James ..... (1996)
Associate Professor, Mechanical and Biomedical Engineering; Ph.D., Washington State University
Feris, Kevin ..... (2005)
Associate Professor, Chair, Biological Sciences; Ph.D., University of Montana
Finstuen, Andrew ..... (2011)
Associate Professor, Director, Honors College; Ph.D., Boston College
Flores, Alejandro ..... (2009)
Associate Professor, Geosciences; Ph.D., Massachusetts Institute of Technology
Folkner, Cheri ..... (2004)
Associate Professor, Catalog Librarian, Albertsons Library; M.L.S., University of Washington
Fologea, Daniel ..... (2011)
Assistant Professor, Physics; Ph.D., University of Bucharest
Forbey, Jennifer ..... (2008)
Associate Professor, Biological Sciences; Ph.D., University of Utah
Fox, Francis ..... (1999)
Professor, Art; M.F.A., University of Wyoming
Fragkias, Michail ..... (2014)
Assistant Professor, Economics; Ph.D., Clark University
Francis, John ..... (2001)
Associate Professor, Art; M.S., Florida State University
Frary, Megan ..... (2005)
Associate Professor, Materials Science and Engineering; Ph.D., Massachusetts Institute of Technology
Frederickson, Elizabeth ..... (1998)
Professor, Director, Master of Public Administration, Public Policy and Administration; Ph.D., Washington State University
Fredricksen, Jim ..... (2008)
Associate Professor, English; M.A., Michigan State University
Freemuth, John C. ..... (1986)
Professor, Political Science; Ph.D., Colorado State University
Friesen, Norm ..... (2013)
Associate Professor, Educational Technology; Ph.D., University of Alberta
Fromm, Megan ..... (2014)
Assistant Professor, Communication; Ph.D., University of Maryland, College Park
Fry, Sara ..... (2008)
Associate Professor, Curriculum Instruction and Foundational Studies; Ph.D., University of Wyoming
Fry, Phillip C. ..... (1987)
Professor, Information Technology and Supply Chain Management; Ph.D., Louisiana State University

## G

Gabbard, David ..... (2013)
Associate Professor, Chair, Bilingual Education; Ed.D., University of Cincinnati
Gallegos, Cara ..... (2013)
Assistant Professor, Nursing; Ph.D., University of New Mexico
Gao, Yong ..... (2008)
Associate Professor, Kinesiology; M.Ed., Shanghai Institute of Physical Education
Gardner, John F. ..... (2000)
Professor, Director, Energy Efficiency Research Institute, Mechanical and Biomedical Engineering; Ph.D., The Ohio State University
Garza, Maria-Alicia ..... (1996)
Associate Professor, World Languages; Ph.D., University of Arizona
Gattiker, Thomas F ..... (2005)
Professor, Chair, Information Technology and Supply Chain Management; Ph.D., University of Georgia
Gehrke, Pamela ..... (1987)
Associate Professor, Nursing; M.S., University of Portland
Genuchi, Matthew C. ..... (2011)
Assistant Professor, Psychology; Ph.D., University of Denver
Giacomazzi, Andrew ..... (1998)
Associate Dean, Social Sciences and Public Affairs, Professor, Social Sciences and Public Affairs; Ph.D., Washington State University
Gibson, Terry-Ann Spitzer ..... (1981)
Associate Professor, Kinesiology; Ph.D., University of Idaho
Gill, Jill K. ..... (2000)
Professor, History; Ph.D., University of Pennsylvania
Gillespie, Lane ..... (2013)
Assistant Professor, Criminal Justice; Ph.D., University of South Florida
Glenn, Nancy ..... (2013)
Professor, Geosciences; Ph.D., University of Nevada, Reno
Goodman, James Anthony ..... (2006)
Associate Professor, Associate Director, Center for Teaching and Learning, Music; Ed.D., University of Illinois at Urbana–Champaign
Grassley, Jane S. ..... (2010)
Professor, Nursing; Ph.D., Texas Woman's University
Graugnard, Elton ..... (2009)
Assistant Professor, Materials Science and Engineering; Ph.D., Purdue University
Guarino, Joseph ..... (1991)
Professor, Mechanical and Biomedical Engineering; Ph.D., University of Idaho

## H

Haan, Lutana ..... (2003)
Associate Professor, Respiratory Care; M.H.S., Boise State University
Hall, Robert Trevor ..... (2006)
Assistant Professor, Communication; Ph.D., Northwestern University
Hamilton, Robert W. ..... (1995)
Associate Professor, Chair, Civil Engineering; Ph.D., University of Maine
Hammons, David ..... (2014)
Assistant Professor, Kinesiology; Ed.D., Boise State University
Hampikian, Greg ..... (2004)
Professor, Biological Sciences; Ph.D., University of Connecticut
Hampshire, Patricia ..... (2011)
Assistant Professor, Early and Special Education; Ph.D., Indiana University
Hanna, Charles B. ..... (1996)
Professor, Chair, Physics; Ph.D., Stanford University
Hannah, Elizabeth Lyon ..... (2007)
Associate Professor, Community and Environmental Health; D.V.M., University of Florida
Hansen, Matthew ..... (2005)
Associate Professor, English; Ph.D., University of Nebraska, Lincoln
Hansen, Marla ..... (1991)
Associate Professor, Theatre Arts; M.F.A., University of Utah
Hansen, Zeynep K. ..... (2007)
Professor, Chair, Economics; Ph.D., University of Arizona
Hansen, Mark R. ..... (2007)
Professor, Chair, Music; D.M.A., University of North Texas
Hardin, Amy Louise ..... (2007)
Assistant Professor, Nursing; M.N., Washington State University
Harkness, Daniel ..... (1993)
Professor, Social Work; Ph.D., University of Kansas
Harlander, Jens ..... (2007)
Associate Professor, Mathematics; Ph.D., University of Oregon
Harvey, Samantha C. ..... (2010)
Associate Professor, English; Ph.D., Cambridge University
Harvey, Keith ..... (2000)
Professor, Chair, Marketing and Finance; Ph.D., University of Tennessee
Hausegger, Lori J. ..... (2005)
Associate Professor, Political Science; Ph.D., The Ohio State University
Hayden, Eric ..... (2013)
Assistant Professor, Biological Sciences; Ph.D., Portland State University
Heath, Julie A. ..... (2007)
Associate Professor, Biological Sciences; Ph.D., University of Florida
Henderson, Heike ..... (1997)
Professor, World Languages; Ph.D., University of California, Davis
Herbeck, Jason R. ..... (2005)
Associate Professor, World Languages; Ph.D., University of Wisconsin, Madison
Hereford, Mary ..... (1996)
Associate Professor, Nursing; Ph.D., University of Idaho
Hernandez, Jairo E. ..... (2011)
Assistant Professor, Civil Engineering; Ph.D., Utah State University
Hervochon, Gwyn ..... (2013)
Assistant Professor, Librarian, Archivist, Albertsons Library; M.L.I.S., Long Island University
Hicks, Manda ..... (2005)
Assistant Professor, Director, Forensics, Communication; Ph.D., Bowling Green State University
Hill, Christopher L. ..... (2002)
Associate Dean, Graduate College, Professor, Anthropology; Ph.D., Southern Methodist University
Hill, Gregory ..... (2005)
Associate Professor, Chair, Public Policy and Administration; Ph.D., Texas A&M University
Hillard, Thomas J. ..... (2006)
Associate Professor, English; Ph.D., University of Arizona
Hindrichs, Cheryl ..... (2006)
Associate Professor, English; Ph.D., The Ohio State University
Hodges, Brian ..... (2008)
Associate Professor, Music; D.M.A., University of North Carolina at Greensboro
Holmes, Janet ..... (1999)
Professor, English; M.F.A., Warren Wilson College
Holmes, Randall ..... (1991)
Professor, Mathematics; Ph.D., State University of New York at Binghamton
Honts, Charles R. ..... (1995)
Professor, Psychology; Ph.D., University of Utah
Hsu, Yu-Chang ..... (2010)
Assistant Professor, Educational Technology; Ph.D., Pennsylvania State University-York
Hubbard, Monica ..... (2014)
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Hubbert, Ann ..... (2011)
Associate Professor, Director, Nursing; Ph.D., University of Nebraska Medical Center
Hughes, William ..... (2008)
Associate Professor, Materials Science and Engineering; Ph.D., Georgia Institute of Technology
Huglin, Linda M. ..... (2007)
Associate Professor, Organizational Performance and Workplace Learning; Ph.D., University of Idaho
Humphrey, Michael John ..... (2007)
Associate Professor, Chair, Early and Special Education; Ed.D., University of Northern Colorado
Hung, Jui-long ..... (2007)
Associate Professor, Educational Technology; Ed.D., Texas Tech University
Hunt, David ..... (2014)
Assistant Professor, Marketing and Finance; Ph.D., University of Missouri
Huntley, Katherine ..... (2011)
Assistant Professor, History; Ph.D., University of Leicester
Hurley, Michael ..... (2014)
Assistant Professor, Materials Science and Engineering; Ph.D., University of Virginia, Charlottesville
Husting, Virginia A. ..... (1999)
Associate Professor, Director, Gender Studies, Sociology; Ph.D., University of Illinois at Urbana–Champaign
Hutson, Royce ..... (2012)
Associate Professor, Social Work; Ph.D., University of Wisconsin, Madison
Hutz, Aida ..... (2009)
Associate Professor, Counselor Education; Ed.D., Northern Arizona University
Hyatt, Troy ..... (2008)
Associate Professor, Chair, Accountancy; Ph.D., University of Arizona

## I

Islam, Samia ..... (2004)
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## J

Jackson, Alexander P.V. ..... (2010)
Assistant Professor, Philosophy; Ph.D., Rutgers University

Jackson, Brian ..... (2014)
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Jain, Amit ..... (1994)
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Jankowski, Eric ..... (2015)
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Jirak, James ..... (1994)
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Johnson, Jeffrey ..... (2012)
Assistant Professor, Geosciences; Ph.D., University of Washington

Johnson, Amanda G. ..... (2011)
Assistant Professor, Public Policy and Administration; Ph.D., University Of Pennsylvania

Johnson, Tyler ..... (2008)
Associate Professor, Kinesiology; Ph.D., Arizona State University

Johnson, Evelyn Sue ..... (2007)
Professor, Director, Pesky Learning Center, Early and Special Education; Ed.D., University of Washington

Jorcyk, Cheryl ..... (1997)
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Josephsen, Jayne ..... (2011)
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## K

Kaiser, Uwe ..... (2001)
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Kane, Adrian T. ..... (2006)
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Kaupins, Gundy ..... (1986)
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Keck, Casey ..... (2011)
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Kelly, Phil ..... (2000)
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Kenaley, Bonnie L. ..... (2007)
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Kendrick, Leslie E. ..... (2001)
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Kettler, Jaci ..... (2014)
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Keyes, Kelsey ..... (2012)
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Keys, Kathleen ..... (2004)
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Khanal, Mandar ..... (1997)
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Kierland, Brian ..... (2008)
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Kim, Byung-Il ..... (2004)
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King, Laura ..... (2012)
Assistant Professor, Criminal Justice; Ph.D., Indiana University of Pennsylvania

Kinzel, Margaret N. ..... (2000)
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Klaustch, Richard ..... (1992)
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Klein, Joanne ..... (2001)
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Kline Lamar, Linda ..... (2000)
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Knowlton, William B. ..... (2000)
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Ko, Kyungduk ..... (2004)
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Koeppen, David R. ..... (1986)
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Koetsier, Peter ..... (1995)
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Kohn, Matthew J. ..... (2007)
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Koppenhafer, Leslie ..... (2014)
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Kroes, James ..... (2011)
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## L

Landrum, R. Eric ..... (1992)
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Lee, Jeunghoon ..... (2008)
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Lee, Jaechoul ..... (2003)
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LeMaster, Clifford ..... (1990)
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Lete, Nere ..... (1997)
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Li, Lan ..... (2012)
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Liley, Denise Goodrich ..... (1996)
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Lindquist, Eric ..... (2012)
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Loo, Sin Ming ..... (2003)
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Loucks, Christine ..... (1989)
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Lowe, Scott E ..... (2006)
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Lowenthal, Patrick ..... (2011)
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Lu, Yang (Frank) ..... (2013)
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Lubamersky, Lynn ..... (2001)
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Lucas, Shelley Marie ..... (2001)
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## M

MacDonald, Jason B ..... (2000)
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Macomb, Daryl J. ..... (2001)
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Macy, Rosemary ..... (1999)
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Madden, Terry Jo ..... (1983)
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Madsen-Brooks, Leslie J. ..... (2010)
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Maher, Matthew ..... (1989)
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Marker, Anthony (Tony) ..... (2005)
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Marsh, Robert L. ..... (1974)
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Marshall, Hans-Peter ..... (2008)
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Martin, Susan ..... (2003)
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Martz, Camille M. ..... (2006)
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Mason, Susan G. ..... (2004)
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Mattingly, Shaunn ..... (2014)
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McAdams, Kimberly K. ..... (2010)
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McChesney, John W. ..... (1995)
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McClain, Lisa ..... (2001)
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McClellan, Erin ..... (2009)
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McClellan, John G. ..... (2009)
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McDonald, Theodore W ..... (2001)
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McDougal, Owen ..... (2006)
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McGuire, Sharon ..... (2006)
Vice Provost for Undergraduate Studies, Associate Professor, Sociology; Ph.D., Virginia Polytechnic Institute and State University

McIntosh, John ..... (2005)
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McNamara, James P. ..... (1997)
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McNatt, Donald B. ..... (2010)
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McNeil, Larry ..... (1999)
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Mead, Jodi L. ..... (2000)
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Michaels, Paul ..... (1993)
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Miller, Raissa ..... (2014)
Assistant Professor, Counselor Education; Ph.D., University of North Texas

Miller, Sondra M. ..... (2006)
Associate Professor, Civil Engineering; Ph.D., University of Iowa
Miller, Nicholas ..... (1993)
Professor, History; Ph.D., Indiana University
Minch, Robert P ..... (1986)
Professor, Information Technology and Supply Chain Management; Ph.D., Texas Tech University
Mishra, Deb ..... (2014)
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Mitchell, Kristen A. ..... (2008)
Associate Professor, Biological Sciences; Ph.D., Washington State University
Mitkova, Maria ..... (2006)
Associate Professor, Electrical and Computer Engineering; Ph.D., University of Chemical Technology and Metallurgy, Bulgaria
Moll, Amy J. ..... (2000)
Dean, Engineering, Professor, Engineering; Ph.D., University of California, Berkeley
Molumby, Nicole ..... (2005)
Associate Professor, Music; D.M.A., The Ohio State University
Moneyhun, Clyde ..... (2010)
Associate Professor, Director, Writing Center, English; Ph.D., University of Arizona
Mooney, Sian ..... (2006)
Professor, Economics; Ph.D., Oregon State University
Moore, Carrie ..... (2011)
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Moore, Rick C. ..... (1994)
Associate Professor, Communication; Ph.D., University of Oregon
Moreau, Leslie M. ..... (2007)
Associate Professor, Music; D.M.A., Arizona State University
Morrison, Brad ..... (2013)
Assistant Professor, Biological Sciences; Ph.D., University of Texas at Dallas
Most, Marshall ..... (1987)
Associate Professor, Communication; M.A., Boise State University
Mukherjee, Partha ..... (2012)
Assistant Professor, Mathematics; Ph.D., University of Minnesota
Mullner, Peter ..... (2004)
Professor, Chair, Materials Science and Engineering; Ph.D., Swiss Federal Institute of Technology
Munger, Roger ..... (2001)
Professor, English; Ph.D., Rensselaer Polytechnic Institute
Munger, James C. ..... (1988)
Vice Provost for Academic Planning, Professor, Biological Sciences; Ph.D., University of Arizona
Murdoch, Danielle ..... (2014)
Assistant Professor, Criminal Justice; Ph.D., Simon Fraser University
Murgel, George A. ..... (1996)
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## N

Nagarajan, Rajesh ..... (2010)
Assistant Professor, Chemistry and Biochemistry; Ph.D., Wesleyan University
Napier, Nancy K. ..... (1986)
Distinguished Professor, Director, Center for Creativity and Innovation, International Business; Ph.D., The Ohio State University
Nelson-Marsh, Natalie ..... (2004)
Associate Professor, Communication; Ph.D., University of Colorado, Boulder
Neri, Janice ..... (2004)
Professor, Art; Ph.D., University of California, Irvine
Neupert, Kent ..... (2000)
Professor, International Business; Ph.D., University of Western Ontario
Noppe, Alex ..... (2013)
Assistant Professor, Music; Ph.D., Indiana University
Norman, Beret ..... (2004)
Associate Professor, World Languages; Ph.D., University of Massachusetts, Amherst
Northrup, Clyde J. ..... (1998)
Associate Dean, Math and Sciences, Professor, Geosciences; Ph.D., Massachusetts Institute of Technology
Novak, E. Shawn ..... (1996)
Associate Professor, Accountancy; Ph.D., University of Houston
Novak, Stephan ..... (1993)
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## O

O'Connor, Jacqueline ..... (2001)
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Oestreicher, Cheryl ..... (2012)
Assistant Professor, Head, Special Collections, Albertsons Library; Ph.D., Drew University
Olsen-Smith, Steven ..... (2000)
Professor, English; Ph.D., University of Delaware
Orr, Martin ..... (1995)
Associate Professor, Chair, Sociology; Ph.D., University of Oregon
Osgood, Linda ..... (2002)
Assistant Professor, Director, Health Information and Information Management Program, Community and Environmental Health; M.A., Boise State University
Osguthorpe, Richard ..... (2005)
Dean, Education, Professor, Curriculum Instruction and Foundational Studies; Ph.D., University of Michigan
Oxford, Julia Thom ..... (2000)
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## P

Paradis, Sarah ..... (2014)
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Park, Susan ..... (2012)
Assistant Professor, Management; J.D., University of Idaho
Park, Sanghee ..... (2014)
Assistant Professor, Public Policy and Administration; Ph.D., Claremont Graduate University
Parkinson, Del R. ..... (1985)
Professor, Music; D.M.A., Indiana University
Parrett, William ..... (1996)
Professor, Director, Center for School Improvement, Curriculum Instruction and Foundational Studies; Ph.D., Indiana University
Payne, Michelle M. ..... (1997)
Professor, Chair, English; Ph.D., University of New Hampshire
Peariso, Craig ..... (2009)
Assistant Professor, Art; Ph.D., State University of New York at Stony Brook
Pelton, John R. ..... (1981)
Dean, Graduate College, Professor, Geosciences; Ph.D., University of Utah
Penry, Tara ..... (2000)
Professor, English; Ph.D., Fordham University
Pera, Sole ..... (2014)
Assistant Professor, Computer Science; Ph.D., Brigham Young University
Peralta, Claudia ..... (2003)
Professor, Literacy, Languages and Cultures; Ph.D., University of Colorado, Boulder
Perkins, Ross ..... (2008)
Associate Professor, Educational Technology; Ph.D., Virginia Polytechnic Institute and State University
Petersen, Ken ..... (2014)
Dean, Professor, College of Business and Economics; Ph.D., Michigan State University
Petranek, Laura Jones ..... (2005)
Associate Professor, Kinesiology; Ph.D., University of South Carolina
Pfeiffer, Ronald ..... (1979)
Associate Dean, Education, Professor, Kinesiology; Ed.D., Brigham Young University
Pierce, Jennifer L. ..... (2005)
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Pinto, Karen ..... (2014)
Assistant Professor, History; Ph.D., Columbia University
Plew, Mark G. ..... (1984)
Professor, Anthropology; Ph.D., Indiana University, Bloomington
Plumlee Jr., Donald Gene ..... (2007)
Associate Professor, Chair, Mechanical and Biomedical Engineering; Ph.D., University of Idaho
Pool, Juli Lull ..... (2007)
Associate Professor, Early and Special Education; Ph.D., University of Oregon
Porter, Michael ..... (2011)
Assistant Professor, Music; D.M.A., University of Iowa
Powers, Joelle (Jo) ..... (2012)
Associate Professor, MSW Program Coordinator, Social Work; Ph.D., University of North Carolina at Chapel Hill
Prengaman, Molly ..... (2005)
Associate Professor, Nursing; M.S., Idaho State University
Pritchard, Mary E. ..... (2004)
Professor, Psychology; Ph.D., University of Denver
Pufall, Darrin ..... (2011)
Assistant Professor, Theatre Arts; M.F.A., University of Florida
Punnoose, Alex ..... (2002)
Professor, Physics; Ph.D., The Aligarh Muslim University
Purdy, Craig A. ..... (1987)
Assistant Professor, Music; M.M., New England Conservatory of Music

## R

Rafla, Nader ..... (1996)
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Raghani, Pushpa ..... (2009)
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Associate Professor, English; Ph.D., University of Nebraska, Lincoln
Ramsey, Elizabeth ..... (2012)
Assistant Professor, Librarian, Albertsons Library; M.S., Emporia State University
Ray, Nina M. ..... (1986)
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Reeder, Heidi ..... (2000)
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Refinetti, Roberto ..... (2014)
Professor, Chair, Psychology; Ph.D., University of California, Santa Barbara
Reinhart, Gordon ..... (1999)
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Reischl, Uwe ..... (2002)
Professor, Community and Environmental Health; Ph.D., University of California, Berkeley
Rice, Kerry ..... (2006)
Professor, Educational Technology; Ed.D., Boise State University
Roark, Robert Scott ..... (2010)
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Roark, Tony ..... (2001)
Dean, Arts and Sciences, Professor, Philosophy; Ph.D., University of Washington
Robbins, Bruce ..... (1990)
Professor, English; Ph.D., Indiana University
Robertson, Ian C. ..... (2000)
Professor, Biological Sciences; Ph.D., Simon Fraser University
Rodriguez, Arturo ..... (2007)
Associate Professor, Bilingual Education; Ph.D., New Mexico State University
Rohn, Troy T. ..... (2000)
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Romero, Sergio ..... (2007)
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Rudd, Robert L. ..... (1985)
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Rudin, Mark ..... (2006)
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Ruffinengo, Marc ..... (2013)
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Ruppel, Margie ..... (2009)
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Rushing-Raynes, Laura ..... (1998)
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## S

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Samball, Michael ..... (1976)
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Sand, Jaime ..... (2005)
Associate Professor, Chair, Community and Environmental Health; M.A., Boise State University
Sanders, Cynthia K. ..... (2004)
Professor, Social Work; Ph.D., Washington University St. Louis
Sarin, Shikhar ..... (2002)
Professor, Marketing and Finance; Ph.D., University of Texas at Austin
Saunders, David ..... (1996)
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Saxena, Vishal ..... (2011)
Assistant Professor, Electrical and Computer Engineering; Ph.D., Boise State University
Scarritt, Arthur ..... (2007)
Associate Professor, Sociology; Ph.D., University of Wisconsin, Madison
Scheepers, Marion ..... (1988)
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Schimpf, Martin E. ..... (1990)
Provost and Vice President for Academic Affairs, Professor, Chemistry and Biochemistry; Ph.D., University of Utah
Schmitz, Mark ..... (2003)
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Schneider, Jennifer ..... (2014)
Associate Professor, Public Policy and Administration; Ph.D., Claremont Graduate University
Schooley-Pettis, Diane ..... (1989)
Associate Dean, Business and Economics, Professor, Marketing and Finance; Ph.D., University of Colorado, Boulder
Schottelkorb, April ..... (2008)
Associate Professor, Counselor Education; Ph.D., University of North Texas
Schrader, Vivian ..... (1997)
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Scott, Christopher ..... (2011)
Assistant Professor, Information Technology and Supply Chain Management; Ph.D., Washington State University
Scott, Dan ..... (2006)
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Sego, Trina Ann ..... (2002)
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Seibert, Pennie S. ..... (1990)
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Seigart, Denise ..... (2014)
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Senocak, Inanc ..... (2007)
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Serpe, Marcelo ..... (1998)
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Shadle, Susan ..... (1996)
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Shallat, Todd A. ..... (1985)
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Shannon, Patrick ..... (1974)
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Shelton, Brett ..... (2013)
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Shepherd, Dawn ..... (2011)
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Sherman, Amber ..... (2014)
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Sherman, Elena ..... (2013)
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Shimon, Jane ..... (2001)
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Shuck, Gail ..... (2001)
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Siemon, Mark ..... (2013)
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Simmonds, Paul ..... (2014)
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Simonson, Shawn ..... (2007)
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Smith, Kirk ..... (1993)
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Smith, Jennifer A. ..... (2001)
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Smith, Mary Jarrett ..... (1987)
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Smith, James F. ..... (1992)
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Smulovitz, Anika ..... (2003)
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Snelson, Chareen Lee ..... (2006)
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Snopkowski, Kristin ..... (2014)
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Snow, Jennifer ..... (2003)
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Solan, David ..... (2008)
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Songer, Anthony ..... (2009)
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Spear, Caile E. ..... (1996)
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Springer, Gregory ..... (2013)
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Steiner, Stan ..... (1992)
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Stephenson, Dale ..... (2003)
Professor, Director, Allied Health; Ph.D., Colorado State University
Stewart, Roger ..... (1995)
Professor, Literacy, Languages and Cultures; Ph.D., Purdue University
Stieha, Vicki ..... (2012)
Assistant Professor, Director, Foundational Studies Program, Curriculum Instruction and Foundational Studies; Ph.D., University of Cincinnati
Stringfellow, Julia ..... (2010)
Assistant Professor, Librarian, Archivist, Albertsons Library; M.L.I.S., University of Wisconsin, Milwaukee
Strohfus, Pam ..... (2003)
Associate Professor, Nursing; M.A., Webster University
Sugheir, Jeffrey Samir ..... (2006)
Associate Professor, Management; Ph.D., Rensselaer Polytechnic Institute
Sutherland, Leonie ..... (2004)
Associate Professor, Nursing; Ph.D., University of San Diego

## T

Tabor, Sharon W. ..... (1998)
Professor, Information Technology and Supply Chain Management; Ph.D., University of North Texas
Taylor-Kindrick, Charlene ..... (2012)
Assistant Professor, Criminal Justice; Ph.D., University of Cincinnati
Teitler, Zachariah ..... (2010)
Associate Professor, Mathematics; Ph.D., University of Michigan, Flint
Temkin-Martinez, Michal ..... (2009)
Assistant Professor, English; Ph.D., University of Southern California
Tenne, Dmitri ..... (2006)
Associate Professor, Physics; Ph.D., Russian Academy of Sciences
Tennyson, Stephen ..... (1995)
Professor, Mechanical and Biomedical Engineering; Ph.D., Wayne State University
Terpend, Regis ..... (2006)
Associate Professor, Information Technology and Supply Chain Management; Ph.D., Arizona State University
Test, Edward ..... (2008)
Associate Professor, English; Ph.D., University of California, Santa Barbara
Thiede, Keith W. ..... (2006)
Professor, Curriculum Instruction and Foundational Studies; Ph.D., University of Washington
Thornes, Tim ..... (2012)
Assistant Professor, English; Ph.D., University of Oregon
Tinker, Juliette K. ..... (2005)
Associate Professor, Biological Sciences; Ph.D., University of Iowa
Toevs, Sarah E ..... (2000)
Professor, Director, Center for Study of Aging, Community and Environmental Health; Ph.D., University of Utah
Tornello, Joseph ..... (2012)
Assistant Professor, Music; D.M.A., University of Kentucky
Touchton, Michael ..... (2011)
Assistant Professor, Political Science; Ph.D., University of Denver
Towle, Mary Ann ..... (1976)
Assistant Professor, Nursing; M.Ed., University of Idaho
Travis, Darlene K. ..... (1989)
Assistant Professor, Director, CT Program, Radiologic Sciences; B.S., Idaho State University
Traynowicz, Laurel ..... (1981)
Associate Professor, Communication; Ph.D., University of Iowa
Trespalacios, Jesus ..... (2013)
Assistant Professor, Educational Technology; Ph.D., Virginia Polytechnic Institute and State University
Turner, Lee Ann ..... (1996)
Professor, Chair, Art; Ph.D., University of Pennsylvania
Twight, Charlotte ..... (1986)
Professor, Economics; Ph.D., University of Washington

## U

Ubic, Rick ..... (2011)
Associate Professor, Materials Science and Engineering; Ph.D., University of Sheffield
Udall, Braden R. ..... (2006)
Associate Professor, English; M.F.A., University of Iowa
Uehling, Karen S. ..... (1981)
Associate Professor, English; M.A., University of California, Davis

## V

VanWijk, Kasper ..... (2006)
Associate Professor, Geosciences; Ph.D., Colorado School of Mines
Vaughn, Justin ..... (2012)
Assistant Professor, Political Science; Ph.D., Texas A&M University
Vecchione, Amy ..... (2009)
Associate Professor, Digital Access Librarian, Albertsons Library; M.L.I.S., University of Washington
Veltman, Max ..... (2007)
Associate Professor, Nursing; M.S., University of Texas at Austin
Villachica, Steven ..... (2007)
Associate Professor, Organizational Performance and Workplace Learning; Ph.D., University of Northern Colorado

Vos, Jacobus (Jaap) ..... (2012)
Associate Professor, Chair, Community and Regional Planning; Ph.D., University of Illinois at Urbana–Champaign

### W

Wakild, Emily ..... (2012)
Associate Professor, History; Ph.D., University of Arizona
Walker, Kate..... (2013)
Assistant Professor, Art; M.F.A., University of Arizona
Walker, David ..... (2011)
Assistant Professor, History; Ph.D., George Washington University
Walker, Eldon..... (2002)
Assistant Professor, Nursing; B.S., Boise State University
Wall, Misty L. ..... (2007)
Assistant Professor, Social Work; Ph.D., University of Texas at Arlington
Walsh, Anthony ..... (1984)
Professor, Criminal Justice; Ph.D., Bowling Green State University
Wampler, Brian D. ..... (2001)
Professor, Chair, Political Science; Ph.D., University of Texas at Austin
Wanek, James ..... (1996)
Professor, Management; Ph.D., University of Minnesota
Wang, Sasha ..... (2011)
Assistant Professor, Mathematics; Ph.D., Michigan State University
Wanless, Dorsey ..... (2014)
Assistant Professor, Geosciences; Ph.D., University of Florida
Warner, Don L ..... (2002)
Associate Professor, Chemistry and Biochemistry; Ph.D., University of Michigan
Watson, Elaine J. ..... (1999)
Associate Professor, Librarian, Albertsons Library; M.L.I.S., University of Alberta
Weaver, Jennifer ..... (2012)
Assistant Professor, Psychology; Ph.D., University of California, Irvine
Weiler, Dawn ..... (2001)
Associate Professor, Nursing; Ph.D., University of Arizona
Welch, Thaddeus B..... (2007)
Professor, Electrical and Computer Engineering; Ph.D., University of Colorado, Colorado Springs
Westover, Jeffrey W..... (2007)
Associate Professor, English; Ph.D., Boston College
Wharry, Janelle P. ..... (2013)
Assistant Professor, Materials Science and Engineering; Ph.D., University of Michigan
White, Merlin M..... (2006)
Associate Professor, Biological Sciences; Ph.D., University of Kansas
White, Harry..... (1988)
Professor, Marketing and Finance; Ph.D., Texas A&M University
Wieland, Mitchell ..... (1996)
Professor, English; M.F.A., University of Alabama
Wiley, Brian ..... (2014)
Assistant Professor, Art; M.F.A., Minneapolis College of Art and Design
Wilhelm, Jeffrey D. ..... (2003)
Distinguished Professor, English; Ph.D., University of Wisconsin, Madison
Wilkins, David E..... (2000)
Associate Professor, Chair, Geosciences; Ph.D., University of Utah
Willerton, David ..... (2005)
Associate Professor, English; Ph.D., Texas Tech University
Willhaus, Janet ..... (2013)
Assistant Professor, Nursing; Ph.D., University of New Mexico
Willison, Scott ..... (1997)
Professor, Director, Center for Multicultural and Educational Opportunities, Curriculum Instruction and Foundational Studies; Ph.D., Indiana University
Wing II, Thomas J..... (2003)
Associate Professor, Respiratory Care; M.H.S., Boise State University
Wingett, Denise G. ..... (2003)
Professor, Director, Biomolecular Ph.D. Program, Biological Sciences; Ph.D., Washington State University
Winiecki, Donald..... (1996)
Professor, Organizational Performance and Workplace Learning; Ph.D., Central Queensland University
Witt, Stephanie L. ..... (1989)
Professor, Public Policy and Administration; Ph.D., Washington State University
Woods, Shelton ..... (1994)
Dean, Social Sciences and Public Affairs, Professor, History; Ph.D., University of California, Los Angeles
Wright, Grady ..... (2007)
Associate Professor, Mathematics; Ph.D., University of Colorado, Boulder
Wuerzer, Thomas..... (2011)
Assistant Professor, Public Policy and Administration; Ph.D., University of Cincinnati

### X

Xiong, Claire..... (2012)
Assistant Professor, Materials Science and Engineering; Ph.D., University of Pittsburg
Xu, Dianxiang ..... (2013)
Professor, Computer Science; Ph.D., Nanjing University

### Y

Yang, Dazhi..... (2010)
Associate Professor, Educational Technology; Ph.D., Purdue University
Yeh, Jyh-haw ..... (2000)
Assistant Professor, Computer Science; Ph.D., University of Florida
Yenor, Scott E..... (2000)
Professor, Political Science; Ph.D., Loyola University Chicago
Young, Richard..... (1994)
Professor, Art; M.F.A., Washington State University
Yu, Pei-Lin ..... (2014)
Assistant Professor, Anthropology; Ph.D., Southern Methodist University

### Z

Zaerr, Linda M..... (1987)
Professor, English; Ph.D., University of Washington
Zhang, Yanliang ..... (2013)
Assistant Professor, Mechanical and Biomedical Engineering; Ph.D., Rensselaer Polytechnic Institute
Zhu, Pengyu..... (2011)
Assistant Professor, Public Policy and Administration; Ph.D., University of Southern California
Ziker, John P..... (2003)
Professor, Chair, Anthropology; Ph.D., University of California, Santa Barbara
Zubik-Kowal, Barbara ..... (2002)
Professor, Mathematics; Ph.D., 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
Alm, Leslie, Associate Dean & 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
Arambarri, Gary, Senior Instructor & Manager, Center for Construction & Transportation Technology, 1975-2005
Baker, Richard P., Professor, Sociology, 1973-2006
Baldassarre, Joseph, Professor, Music, 1975-2009
Baldner, Ronald, Senior Instructor & Program Head, Welding, 1978-2003
Banks, Richard C., Professor, Chemistry, 1969-2002
Barney, L. Dwayne, Professor, Marketing & Finance, 1986-2014
Barnhardt, Larry, Dean, Selland 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., Assistant Professor, English, 1995-2015
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
Bigelow, John D., Professor & Chair, Management, 1982-2007
Birdsall, Bobbie A., Associate Professor, Counselor Education; Ph.D., 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
Bowman, Phyllis, Assistant Professor, Physical Education, 1969-1985
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
Brender, Susan I., Professor, Computer Information Systems & Production Management, 1969-1998
Brinton, Alan P., Professor & Associate Vice President for Academic Affairs, Philosophy, 1975-2000
Brown, Timothy, Associate Professor & University Librarian, Albertsons Library, 1977-2005
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
Cade, Tom J., Professor of Raptor Biology & Director, Raptor Research, 1987-1993
Cantrell, Thomas, Advanced Instructor & Program Head, Electrical Lineworker, 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
Chastain, Garvin D., Professor, Psychology, 1978-2000

Christensen, Stephen A., Associate Professor & Director, Educational Technology, 1987-2008
Clark, Cynthia, Professor, Nursing, 1995-2015
Clark, Marvin L., Professor, Computer Information Systems & Production Management, 1969-1993
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
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, T. Virginia, Associate Professor & Chair, Anthropology, 1968-2003
Cox, V. Marvin, Professor & Chair, Communication, 1977-2004
Crane, Jane, 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, Library, 1973-2006
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
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. (RJ), 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, Thomas J., Professor, Accountancy, 1987-2014
Erickson, Gary, Professor & Chair, Electrical & Computer Engineering, 1996-2006
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
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
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
Girvan, James, Professor & Dean, College of Health Sciences, Community & 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
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
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
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
Hoopes, Gaye, Associate Professor, Art, 1978-2002
Hopfenbeck, Ted H., Associate Professor, Criminal Justice Administration, 1967-1995
Hourcade, Jack, Professor, Special Education and Early Childhood Studies, 1987-2015
Hosman-Kulm, Julie, Advanced Instructor, Culinary Arts, 1983-2009
Hsu Forte, Madeleine, Professor, Music, 1971-1997
Huff, Howard L., Professor, Art, 1965-1999
Hughes, Robert B., Professor, Mathematics & Computer Science, 1971-2001
Ilett, 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
Jones, Errol Dean, Professor, History, 1982-2007
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
King, Louis J., Instructor, Auto Mechanics Technology, 1970-1985
Kinney, Richard, Professor, Political Science, 1976-2014
Knapp, James, Clinical Associate Professor, School of Social Work, 1992-2012
Kober, Alfred J., Professor, Art, 1968-1999
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
Lamborn, Ellis W., Professor, Economics, 1968-1989
Lamet, 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
Lutze, 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
Maloof, Giles W., Professor, Mathematics, 1968-2000
Markel, Michael, Professor & Director, Technical Communication, English, 1968-2000
Martin, Carol, Professor, English, 1972-2010
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
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
Mirsky, Rebecca, Associate Professor, Construction Management, 2005-2015
Mixon, Diana, Associate Professor, Nursing, 1996-2015
Moen, Gary, Professor, Horticulture, 1986-2009
Moncrief, Gary, Professor, Political Science, 1976-2013
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
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
Oyler, Neldon D., Program Head & Standard Instructor, Horticulture, 1966-1992
Parke, Charles, Senior Instructor, Auto Body, 1980-2009
Parks, Donald J., Professor, Mechanical Engineering, 1973-2005
Payne, Anne, Associate Professor, Nursing, 1988-2005
Payne, Richard D., Professor, Economics, 1970-2004
Pearson, Ethel (Thel), Associate Professor, Educational Foundations, Technology & Secondary Education, 1981-1997
Peek, Margaret, Professor, English, Associate Dean, College of Arts & Sciences, 1967-1987

Petlichoff, Linda, Professor, Kinesiology, 1987-2011
Phillips, John L., Professor & Chair, Psychology, 1954-1989
Pirrong, Gordon D., Professor, Accountancy, 1979-2003
Pitman, C. Harvey, Associate Professor, Communication, 1966-1994
Potter, Glenn, Associate Dean & Professor, Education, 1986-2003
Rayborn, David W., Associate Professor, Communication, 1969-1996
Raymond, Greg, 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
Robertson, John B., Associate Professor, Modern Languages & Literature, 1974-1997
Rodenhiser, Roy, Professor & Chair, Social Work, 2005-2015
Rohrig, Kathleen L., Associate Professor, Mathematics, 1983-2011
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
Sanderson, Irene M. (Rena), Professor, English, 1984-2011
Sanderson, Richard K., Associate Professor, English, 1971-2005
Schackel, Sandra K., Professor, History, 1989-2010
Scheffer, Martin W., Professor, Sociology, 1964-1997
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
Shannon, Susan (Susie), Special Lecturer, Accountancy, 1985-2010
Shurtleff-Young, Cheryl, Professor, Art, 1978-2013
Sims, Robert C., Professor, History, 1970-1999
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
Skoro, Charles L. (Chuck), Professor, Economics, 1983-2003
Skov, Arny R., Professor, Art, 1967-1995
Sluder, Stanley, Senior Instructor, Semi-conductor Manufacturing Technology, 1983-2005
Smith, Brent, Professor, Art, 1980-2006
Smith, Lyle H., Professor, Education, Director, Intercollegiate Athletics, 1946-1981
Smith, William S. (Willy), Professor, Physics, 1973-2007
Snow, Mark, Professor, Psychology, 1971-2000
Snyder, Walter, Professor, Geosciences, 1984-2012
Spinosa, Claude, Professor & Chair, Geosciences, 1971-2003
Springer, Pamela, Professor, School of Nursing, 1989-2013
Stack, James, Advanced Instructor, Electronics Technology, 1984-2009
Stark, Frank W., Professor, Chemistry, 1957-2000
Staley, Orland Scott, Assistant Professor, Radiologic Sciences, 1989-2015
Stepich, Donald, Associate Professor & Chair, Organizational Performance & Workplace Learning, 2002-2015
Stitzel, Thomas E., Professor, Finance, 1975-2000
Stokes, Lee W., Professor, Director, Environmental & Occupational Health, 1988-2002
Sulanke, Robert A., Professor, Mathematics, 1970-2002
Sumter, Bonnie J., Advanced Instructor, Center for Health & Human Services, Horticulture Technology & Culinary Arts, 1978-2002
Takeda, Yozo, Professor, Mathematics, 1968-1994
Taye, John, Professor, Art, 1975-2008
Taylor, Adrien, Coordinator of Reference Services & Professor, 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
Thomason, George L., Associate Professor, Music, 1971-1999
Thorngren, Connie M., Associate Professor, Kinesiology, 1971-2001
Thorsen, Carolyn, Professor & Chair, Educational Technology, 1987-2006
Tollinger, Bonnie, Senior Instructor & Program Head, Dental Assisting, 1976-2007
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
Wallace, Steven R., Assistant Professor, Kinesiology, 1972-2008
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
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
Wollheim, Peter, Associate Professor, Communication, 1985-2012
Wood, Spencer H., Professor, Geosciences, 1977-2004
Wyllie, Gilbert A. (Gil), Associate Professor, Biology, 1965-1993
Young, Katherine A., Professor, Elementary Education & Specialized Studies, 1984-2003
Young, Virgil M., Professor, Education, 1967-1996
Yunker, J. Douglas, Associate Professor, School of Social Work, 1976-2004
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
Anchustegui, Renee, Director, Professional MBA Program, 1985-2014
Ansbach, Thomas, Enrollment Coordinator, Extended Studies, 1982-2014
Alvord, Debra, Director, Employee Relations, Human Resource Services, 1972-2012
Boman, Viola, Employment Manager and Special Projects Coordinator, Human Resource Services, 1973-2010
Burke, Larry D., Director, University Relations, 1975-2003
Buser, Jane, Executive Director, Human Resource Services, 1973-2010
Cassell, Jacquelyn H. (Jackie), Assistant to the President, Presidents 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, Library, 1974-2011
Cottle, 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
Dibelius, Ron, Assistant to the Director, Intercollegiate Athletics, 1988-2013
Eisele, Theodore (Ted), Instructional Television Specialist, Academic Technologies, 1983-85, 88-2012
Emilson, Bae, Director, Center for Professional Development, 2004-2014
Fisher, Anne M., ComMedia & Business Manager, Academic Technologies, 1974-2004
Franden, John S., Executive Assistant, Presidents 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
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
Gunner, N. Roxanne, Teacher, Office Occupations, College of Applied Technology, 1987-2007
Hambelton, Benjamin (Ben), Director, Academic Technologies, 1975-2010
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
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
Hyde, Kenneth, Senior Instructional Design Consultant, Academic Technologies, 1979-2012
Irwin, Larry, Director, Office of Research, 1973-2005
Jacoby, Ed, Head Track Coach, Athletics, 1975-1996
Joyce, Carol, Accounts Payable Manager, Accounts Payable, 1984-2010
Keith, Ted, Director, Internal Auditing, 1966-1997
Knox, Ellis "Skip", Enterprise Web Developer, Office of Information Technology, 1986-2013
Kreps, Harold D., Manager, Library, 1989-2004
Ladwig, Carol, Assistant Director, Athletics, 1978-1998
Lee, Sandy, Executive Staff Assistant, Presidents Office, 1979-2014
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
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
Moore, Lyn, Program/Operations Coordinator, Office of Technology Transfer, 1999-2014
Nally, James, Executive Director, Alumni Association, 1973-1995
Nelson, Jayne, Physician Assistant, Health Services, 2000-2014
Ness, Nanct, Testing Services Coordiantor, Advising and Academic Enhancement, 1983-2014
Northrup, JoAnn, Assistant Manager, Accounts Payable, 1999-2010
Nyborg, Lester, Director, Student Health Center, 1976-1995
Pangburn, Carol, Senior Staff Councelor, Counseling Services, 1999-2014
Pass, Leslie, Assistant Director of Events, Taco Bell Arena, 1973-2013
Plowman, John, Senior Developer/Analyst, Office of Information Technology, 1982-2007
Powell, Sue, Assistant Network Administrator, College of Education, 1982-2011
Rapp, Richard P., Associate Vice President for Student Affairs, Student Affairs, 1970-2007

Rasmussen, Gary, Engineer, Academic Technologies, 1990-2011
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
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
Schmidt, Steve, Director, Institutional Research, 1986-2012
Smith, Corrine, Boise State Representative - Gowen Field, Extended Studies, 1986-2010
Stevens, Julie, Head Dance Coach, Intercollegiate Athletics, 1983-2013
Swayne, Bruce, Director, Language Resource Center, Modern Languages & Literature, 1984-2009
Teater, Debra, Student Success Coordinator, Advising and Academic Enhancement, 1988-2014
Turner, Ron, Director, Budget Office, 1967-1997
Urquidi, Linda, Director, Summer & Intersession Programs, Extended Studies, 1971-2012
VanKleek, Darrell, Controller, Finance & Administration, 1969-1995
Voulelis, Marlene, Director, Administrative Data Processing, 1981-1994
Weir, Joyce, Benefits Manager, Human Resource Services, 1984-2010
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
Bantam, Patti, Management Assistant, Intercollegiate Athletics, 1978-2013
Bauges, Donna, Facilities Specialist, Student Union, 1984-2010
Borton, Christine, Administrative Assistant, Kinesiology, 1991-2011
Bowers, Sylvia Pat, Senior Secretary, Radiologic Sciences, 1976-1996
Briseno, Mario, Section Manager, Library, 1987-2011
Brooks, Leona, Custodian, Physical Plant, 1971-1989
Brownlee, Jo, Library Assistant, Albertsons Library, 1989-2015
Bugni, Carol, Management Assistant, Human Resource Services, 1997-2012
Burkholder, Janice, Library Assistant 3, Library, 1986-2014
Cardinale, Pauline Liz E., Library Assistant II, Library, 1979-2000
Carroll, Carol, Management Assistant, College of Health Sciences, 1984-2009
Carroll, Cynthia, Library Section Manager, Library, 1984-2014
Carter, Faith, Laboratory Material Supervisor, Chemistry, 1991-2008
Carter-Hepworth, Mary, Library Assistant, Library, 1986-2009
Caylor, Ruth Ann, Monographs Assistant, Library, 1967-1987
Chapman, Shannon, Financial Technician, Larry Selland College of Applied Technology, 1986-2004
Chesnut, Wilson L., Manager, Supply Operations, Physical Plant, 1977-1999
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
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
Dehlin, Roxann N., Administrative Assistant, Criminal Justice Administration, 1986-2003
Del Toro, Debra, Office Specialist, Career Center, 1995-2014
Downs, Wendy, Technical Records Specialist, Academic Technologies, 1973-2008
Echevarria, Luise E. (Lu), University Travel Examiner, Accounts Payable, 1971-1998
Erickson, Homer, Grounds Maintenance, Physical Plant, 1973-1992
Fields, Naomi, Management Assistant, Graduate College, 1988-2008
Flacker, Darlene, Administrative Assistant I, Sociology, 1979-2001
Fuller, Jackie C., Administrative Assistant, Nursing, 1977-1999
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
Haskins, Dorothy, Clerical Specialist, Curriculum Resource Center, 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
Hotykay, Art, Inventory Specialist, Accounting, 1977-1999
Huston, Dorothy L., Senior Secretary, Modern Languages & Literature, 1974-1995
Johnson, Peggy, Administrative Assistant, Psychology, 1986-2013
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
Knudson, Gerrel, Technical Records Specialist, Professional Development, 1994-2009
Law, Ona, Management Assistant, English, 1988-2014
Law, Ona, Management Assistant, English, 1988-2014
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
McGhee, Margaret, Administrative Secretary, College of Education, 1970-1988
Messley, Constance, Administrative Assistant II, Student Life, 1997-2014
Meyer, Rebecca, Administrative Assistant II, Kinesiology, 1988-2013
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, Library, 1973-2011
Ploeg, Lee, IT Data Communication Repair Specialist, Office of Information Technology, 1993-2007
Pulley, Violet, Library Assistant, Albertsons Library, 1996-2014
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
Santillanes, Lois, Financial Support Technician, Accounts Payable, 1971-2007
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, 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
Stish, John, Media Equipment Specialist, Office of Information Technology, 1997-2013
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
Trofast, Tricia, Administrative Assistant, Philosophy, 1988-2014
Turner, Leona, IT Programmer Analyst, Enterprise Application Systems, 1977-2007
Ultican, Katherine, Library Assistant 3, Albertsons Library, 1975-2008
Urresti, Joan, Senior Transcript Evaluator, Registrar, 1977-1993
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

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