BOISE STATE UNIVERSITY

2008-2009

UNDERGRADUATE CATALOG

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 In particular, when an instructional program is to be withdrawn, the university will make every reasonable effort to ensure that students who are within two years of completing the graduation requirements, and who are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toward the completion of those requirements, will have the opportunity to complete the program, which is to be withdrawn.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

Cover design by Kathy Robinson.

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 or technical 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 or technical 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 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, while Chapter 13 does the same for the applied technology programs. Within each 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 Advising Center, 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 publications also contain important information:

- Boise State University *Graduate Catalog*
- Boise State University *Schedule of Classes*
- Boise State University *Summer Schedule of Classes*

The following reference materials are available on the Boise State website (http://www.boisestate.edu):

- Boise State University *Credit for Prior Learning*
- Boise State University *Policy Manual*
- Boise State University *Student Code of Conduct*
- Boise State University *Student Handbook*

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Academic Calendar

SUMMER SESSION 2008

For Registration Information see the *Summer Schedule of Classes*

February 19, Tuesday..... Registration begins for Summer 2008.

April 1, Tuesday..... Recommended last date to mail 2007-08 *Free Application for Federal Student Aid* (FAFSA) for consideration for financial aid for Summer 2008.

May 15, Thursday..... Fee-payment deadline for First 3-week and First 8-week sessions. Unpaid accounts will be assessed a $50 penalty. Students who do not plan to attend must cancel/drop classes by this date.

26, Monday..... Memorial Day holiday (no classes—University offices closed).

June 5, Thursday..... Fee-payment deadline for Second 3-week, First 5-week, Second 8-week, and 10-week sessions. Unpaid accounts will be assessed a $50 penalty. Students who do not plan to attend must cancel/drop classes by this date.

12, Thursday..... Last day to apply for graduation, using BroncoWeb, for graduate and undergraduate degrees and certificates to be awarded in August.

13, Friday..... Summer Pell Grant eligibility determined by number of credits registered on this date.

23, Monday..... Last day for final oral defense of dissertation, thesis, or project for August graduation.

26, Thursday..... Fee-payment deadline for Third 3-week session. Unpaid accounts will be assessed a $50 penalty. Students who do not plan to attend must cancel/drop classes by this date.

July 3, Thursday..... Last day to submit *Application for Admission to Candidacy* form to Graduate Admission and Degree Services for graduate degrees to be awarded in December.

4, Friday..... Independence Day holiday (no classes—University offices closed).

7, Monday..... Last day to add assessment, graduate or undergraduate independent study, internship, practicum, or directed research.

7, Monday..... Last day to submit final signed copies of dissertation, thesis, or project to Graduate Dean's Office for August graduation.

10, Thursday..... Fee-payment deadline for Second 5-week session. Unpaid accounts will be assessed a $50 penalty. Students who do not plan to attend must cancel/drop classes by this date.

17, Thursday..... Fee-payment deadline for Fourth 3-week session. Unpaid accounts will be assessed a $50 penalty. Students who do not plan to attend must cancel/drop classes by this date.

19, Saturday..... Last day to complete written comprehensive exam for August graduation.

Deadlines by Session—Summer 2008

Session	Start Date	Last Date to Add without Permission Number	Last Date to Add with Permission Number, Last Date to Drop Without a W and Receive a Refund (Less $25.00 Processing Fee), Last Date to Change from Credit to Audit OR Audit to Credit	Last Date to Drop with a W or Completely Withdraw	Last Date of Classroom Instruction
first 3 week	May 19	May 19	May 20	May 27	June 8
second 3 week	June 9	June 9	June 10	June 16	June 29
third 3 week	June 30	June 30	July 1	July 7	July 20
fourth 3 week	July 21	July 21	July 22	July 28	August 10
first 5 week	June 9	June 10	June 11	June 20	July 13
second 5 week	July 14	July 15	July 16	July 25	August 17
first 8 week	May 19	May 21	May 23	June 9	July 13
second 8 week	June 9	June 11	June 13	June 30	August 3
10 week	June 9	June 11	June 17	July 7	August 17

FALL SEMESTER 2008

For Registration Information see the *Fall Schedule of Classes*

February 15, Friday..... *Free Application for Federal Student Aid* (FAFSA) priority filing deadline for new and transfer students. Students who will begin enrollment at Boise State during the Fall 2008 semester should transmit the FAFSA, including any required signature pages, by February 15, 2008. New and transfer students who meet this deadline will automatically be considered for most need-based scholarships and tuition waivers and will receive priority consideration for certain grant, loan, and work-study programs.

15, Friday..... Scholarship deadlines: Last day to have all admission materials received in the Admissions Office for new and transfer students who want to be considered for scholarships for the 2008-09 year. Last day for the *Boise State Supplemental Scholarship Application* to be received in the Financial Aid Office to be considered for special 2008-09 merit and need-based scholarships. Last day for the *Brown Scholarship* application to be received in the Honors College. The Boise State Financial Aid Web site contains a listing of departments that require a separate scholarship application.

March 15, Saturday..... *Free Application for Federal Student Aid* (FAFSA) priority filing deadline for continuing students. Deadline for submitting *Supplemental Scholarship Application.* Students attending Boise State Spring 2008 and who plan to continue attendance during the 2008-09 academic year should transmit the FAFSA or renewal FAFSA, including any required signature pages, by March 15, 2008. Students who meet this deadline will receive priority consideration for certain scholarship, grant, loan, and work-study programs.

31, Monday..... Registration for continuing students begins for Fall 2008 (by appointment).

June
1, Sunday — Priority deadline for international student application materials to be received for fall semester consideration.
30, Monday — Last day for undergraduate, degree-seeking applicants for fall semester to have all admission materials received by the Admissions Office. Students who miss this deadline will be considered for nondegree-seeking (part-time) status only.
30, Monday — Last day for graduate, degree-seeking applicants for fall semester to have all admission materials received by Graduate Admission and Degree Services. Applications received after this date might not be processed in time to admit students to degree programs.

August
20, Wednesday — Faculty orientation/meetings.
21, Thursday — Fee-payment deadline for registered students. Unpaid accounts will be assessed a $50 penalty. Students who do not plan to attend must cancel/drop classes by this date.
22, Friday — Residence halls open (9:00 A.M.).
25, Monday — Classes begin. Academic advising available throughout the semester.
29, Friday — Weekend University classes begin.
29, Friday — Last day for faculty initiated drops for nonattendance during the first week of the semester to be turned in to the Registrar's Office.
29, Friday — Last day to apply for graduation, using BroncoWeb, for graduate and undergraduate degrees and certificates to be awarded in December.

September
1, Monday — Labor Day holiday (no classes—University offices closed).
8, Monday — Last day to waive student health insurance.
8, Monday — Last day to register; add classes; add dissertation, thesis, or project credit; add graduate independent study or directed research; change from credit to audit or audit to credit; and last day to drop classes without a W and receive a refund (less $25 processing fee) for Regular session classes. Pell Grant eligibility determined by number of credits registered on this date. For other session deadlines, see Deadlines by Session table.
15, Monday — Last day to submit *Residency Information Form* with documentation to Registrar's Office to declare Idaho residency.
19, Friday — Last day to file application with department for final master's or doctoral written exam.

October
3, Friday — Last day to add assessment, undergraduate independent study, internship, practicum, or readings and conference.
3, Friday — Last day to drop classes or completely withdraw from the Regular session. For other sessions, see Deadlines by Session table.
6, Monday — Last day to submit *Application for Admission to Candidacy* form to Graduate Admission and Degree Services for graduate degrees to be awarded in May.
11, Saturday — Final day for written comprehensive exam for graduate degrees for December graduation.
13, Monday — Columbus Day observed (classes in session).
17, Friday — Last day for final oral dissertation, thesis, or project defense for December graduation.

November
7, Friday — Last day to submit final signed copies of dissertation, thesis, or project to Graduate Dean's Office for December graduation.
11, Tuesday — Veterans Day (classes in session).
24-30, Monday-Sunday — Thanksgiving holiday (no classes—University offices closed November 27-28).

December
14, Sunday — Weekend University classes end.
15-18, Monday-Thursday — Final semester examinations for the Regular session (exam schedule listed on BroncoWeb).
19, Friday — Residence halls close (Noon).
19, Friday — Commencement.
30, Tuesday — Grade reports due to Registrar's Office by Noon.

Deadlines by Session—Fall 2008

Session	Start Date	Last Date to Add without Permission Number	Last Date to Add with Permission Number, Last Date to Drop Without a W and Receive a Refund (Less $25.00 Processing Fee), Last Date to Change from Credit to Audit OR Audit to Credit	Last Date to Drop with a W or Completely Withdraw	Last Date of Classroom Instruction
Regular*	August 25	August 29	September 8	October 3	December 12
first 4 week	August 25	August 25	August 27	September 3	September 19
second 4 week	September 22	September 22	September 24	October 1	October 17
third 4 week	October 20	October 20	October 22	October 29	November 14
fourth 4 week	November 17	November 17	November 19	November 26	December 19
first 5 week	August 25	August 26	August 27	September 5	September 26
second 5 week	September 29	September 30	October 1	October 10	October 31
third 5 week	November 3	November 4	November 5	November 14	December 12
first 8 week	August 25	August 27	August 29	September 15	October 17
second 8 week**	October 20	October 22	October 24	November 10	December 12
first 10 week	August 25	August 27	September 3	September 19	October 31
second 10 week	September 29	October 1	October 7	October 24	December 12
12 week Mountain Home	August 25	August 28	September 4	September 25	November 13

*The final exams for this session are December 15-18. See "Final Examination Schedule" listed on BroncoWeb 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

SPRING SEMESTER 2009

For Registration Information see the *Spring Schedule of Classes*

October
1, Wednesday ..... Recommended date to submit 2008-2009 *FAFSA/Renewal Application* for Spring 2009 financial aid (if you have not already done so) in order to have aid available to pay Spring semester fees.
15, Wednesday ..... Priority deadline for international student application materials to be received for spring semester consideration.
27, Monday ..... Registration for continuing students begins for spring semester (by appointment).

December
5, Friday ..... Last day for undergraduate, degree-seeking applicants for spring semester to have all admission materials received by the Admissions Office. Students who miss this deadline will be considered for nondegree-seeking (part-time) status only.
5, Friday ..... Last day for graduate, degree-seeking applicants for spring semester to have all admission materials received by Graduate Admission and Degree Services. Applications received after this date might not be processed in time to admit students to degree programs.

January
14, Wednesday ..... Faculty orientation/meetings.
15, Thursday ..... Fee-payment deadline for registered students. Unpaid accounts will be assessed a $50 penalty. Students who do not plan to attend must cancel/drop classes by this date.
17, Saturday ..... Residence halls open (Noon).
19, Monday ..... Dr. Martin Luther King, Jr./Idaho Human Rights Day holiday (no classes—University offices closed).
20, Tuesday ..... Classes begin. Academic advising available throughout the semester.
23, Friday ..... Weekend University classes begin.
26, Monday ..... Last day for faculty initiated drops for nonattendance during the first week of the semester to be turned in to the Registrar's Office.
26, Monday ..... Last day to apply for graduation, using BroncoWeb, for graduate and undergraduate degrees and certificates to be awarded in May.

February
2, Monday ..... Last day to waive student health insurance.
2, Monday ..... Last day to register; add classes; add dissertation, thesis, or project credit; add graduate independent study or directed research; change from credit to audit or audit to credit; and last day to drop classes without a W and receive a refund (less $25 processing fee) for Regular session classes. Pell Grant eligibility determined by number of credits registered on this date. For other session deadlines, see Deadlines by Session table.
6, Friday ..... Last day to file application with department for final master's or doctoral written exam.
9, Monday ..... Last day to submit *Residency Information Form* with documentation to Registrar's Office to declare Idaho residency.
16, Monday ..... President's Day holiday (no classes—University offices closed).

March
2, Monday ..... Last day to add assessment, undergraduate independent study, internship, practicum, or readings and conference.
2, Monday ..... Last day to drop classes or completely withdraw from the Regular session. For other sessions, see Deadlines by Session table.
2, Monday ..... Last day to submit *Application for Admission to Candidacy* form to Graduate Admission and Degree Services for graduate degrees to be awarded in August.
14, Saturday ..... Last day for written comprehensive exam for graduate degrees for May graduation.
23-29, Monday-Sunday ..... Spring Vacation

April
3, Friday ..... Last day for final oral dissertation, thesis, or project defense for May graduation.
10, Friday ..... Last day to submit final signed copies of dissertation, thesis, or project to Graduate Dean's Office for May graduation.

May
10, Sunday ..... Weekend University classes end.
11-14, Monday-Thursday ..... Final semester examinations for the Regular session (exam schedule listed on BroncoWeb).
15, Friday ..... Residence halls close (Noon).
16, Saturday ..... Commencement.
19, Tuesday ..... Grade reports due to Registrar's Office by Noon.

Deadlines by Session—Spring 2009

Session	Start Date	Last Date to Add without Permission Number	Last Date to Add with Permission Number, Last Date to Drop Without a W and Receive a Refund (Less $25.00 Processing Fee), Last Date to Change from Credit to Audit OR Audit to Credit	Last Date to Drop with a W or Completely Withdraw	Last Date of Classroom Instruction
Regular*	January 20	January 26	February 2	March 2	May 8
first 4 week	January 20	January 20	January 22	January 29	February 13
second 4 week	February 17	February 17	February 19	February 26	March 13
third 4 week	March 16	March 16	March 18	March 25	April 17
fourth 4 week	April 20	April 20	April 22	April 29	May 15
first 5 week	January 20	January 21	January 22	February 2	February 20
second 5 week	February 23	February 24	February 25	March 6	April 3
third 5 week	April 6	April 7	April 8	April 17	May 8
first 8 week	January 20	January 22	January 26	February 10	March 13
second 8 week**	March 16	March 18	March 20	April 6	May 8
first 10 week	January 20	January 22	January 28	February 17	April 3
second 10 week	February 23	February 25	March 3	March 20	May 8
first 12 week Mountain Home	January 5	January 8	January 14	February 5	March 30
second 12 week Mountain Home	April 6	April 9	April 15	May 7	June 25

*The final semester exams for this session are May 11-14. See "Final Examination Schedule" listed on BroncoWeb for exact dates and times.
**This session is eight calendar weeks long with seven weeks of in class instruction due to the week-long Spring Break.

Chapter 1—An Introduction to Boise State University

Boise

Idaho's state capital and center of business, Boise is the largest metropolitan area between Portland, Oregon, and Salt Lake City, Utah. Set against a backdrop of the Rocky Mountain foothills, Boise is one of the most attractive and enjoyable cities in the nation. As a growing city of more than 211,000 people, Boise enjoys a varied economy based on high technology, agricultural products, tourism, government agencies, and manufacturing.

Known as the City of Trees, Boise is located in a land of infinite variety. To the south are rich farmlands; a rugged, high-mountain desert; North America's tallest sand dunes; and the famous Birds of Prey Natural Area. To the north, forests, whitewater rivers, and mountain lakes provide opportunities for kayaking, fishing, hunting, and hiking. For example, Bogus Basin ski resort is just 16 miles from the Boise State University campus, and world-famous Sun Valley is less than three hours away.

The Boise Greenbelt, a network of city parks and riverside paths, runs through the campus. Three city parks are within walking distance of Boise State University, and a footbridge spans the Boise River, linking the campus to Julia Davis Park, where the Boise Art Museum, Idaho State Historical Museum, and Zoo Boise are located. An array of outdoor activities—fishing, hiking, skiing, river rafting, golf, tennis, and camping—are available only a short distance from campus.

The city and campus offer many cultural opportunities, such as the Boise Philharmonic, American Festival Ballet, Boise Civic Opera, Idaho Shakespeare Festival, Gene Harris Jazz Festival, and a variety of other theatrical and musical productions. Touring artists frequently perform in the Morrison Center and the Taco Bell Arena, both on the Boise State University campus. In addition, a variety of national sporting events are held at the Taco Bell Arena.

The University's Mission

Boise State University exists to educate people. Our goal is to foster an intellectual atmosphere that produces educated, literate people—people knowledgeable of public affairs, committed to life-long learning, and capable of creative problem solving. As a student at Boise State University, you have an opportunity to receive an education that will prepare you not only for employment and career advancement, but also for participation in society as an active, informed citizen.

Since its inception, the university has responded to the wide-ranging academic needs of the community, serving Boise and the surrounding area with undergraduate and graduate programs, research, and public service. An urban university, Boise State University reflects the character and spirit of Boise—Idaho's center of business and government. In fact, to ensure that Boise State University's mission takes its cue from the university's urban setting, the Idaho State Board of Education has mandated that we place primary emphasis on education in the following areas:

- business and economics
- engineering
- social sciences
- public affairs
- performing arts
- teacher preparation

At the same time, the university places continuing emphasis on the health professions and the physical and biological sciences and education, while maintaining basic strengths in the sciences and liberal arts.

As shown in Table 1.1., Boise State University is organized into eight colleges.

The colleges that make up Boise State University offer the opportunity to pursue your education in over 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—Organization of Boise State University

College	Departments
College of Arts and Sciences	Art; Biological Sciences; Chemistry and Biochemistry; English; Geosciences; Mathematics; Modern Languages and Literatures; Music; Philosophy; Physics; Theatre Arts
College of Business and Economics	Accountancy; Economics; Information Technology and Supply Chain Management; Management; Marketing and Finance
College of Education	Bilingual Education; Counselor Education; Curriculum, Instruction, and Foundational Studies; Educational Technology; Kinesiology; Literacy; Special Education and Early Childhood Studies
College of Engineering	Civil Engineering; Computer Science; Construction Management; Electrical and Computer Engineering; Instructional and Performance Technology; Materials Science and Engineering; Mechanical and Biomedical Engineering
College of Health Sciences	Community and Environmental Health; Nursing; Radiologic Sciences; Respiratory Care
College of Social Sciences and Public Affairs	Anthropology; Communication; Criminal Justice; History; Military Science; Political Science; Psychology; Public Policy and Administration; Social Work; Sociology
Larry G. Selland College of Applied Technology	Business and Management Technology; Construction Technology; Culinary Arts; Health and Human Services; Horticulture; Information Technology; Manufacturing and Engineering Technology; Transportation Technology; Workforce Training; Learning Center for Adult Basic Education
Graduate College	Coordinates the graduate programs of the respective colleges and departments

The University's History

In 1932, the Episcopal Church founded Boise Junior College, the first post-secondary school in Idaho's capital. 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 by the community. In 1939, the State Legislature created a junior-college taxing district to fund the college through local property taxes. 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 school 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 school was brought into the state system of higher education as Boise State College and was designated Boise State University in 1974. In 1971, the Graduate College was established.

During its history, Boise State University has operated under the leadership of six presidents:

- Bishop Middleton Barnwell (1932-1934)
- Eugene B. Chaffee (1934-1967)
- John B. Barnes (1967-1977)
- John H. Keiser (1978-1991)
- Charles P. Ruch (1993-2003)
- Robert W. Kustra (2003-present)

Accreditation

The university is a fully accredited member of the Northwest Commission on Colleges and Universities and holds permanent membership on the College Entrance Examination Board and in the College Scholarship Service Assembly. Many of Boise State University's academic programs have special accreditation or endorsement from one or more of the following organizations:

- Accreditation Board for Engineering and Technology
- The Association to Advance Collegiate Schools of Business – International
- American Bar Association
- American Chemical Society
- American Council for Construction Education
- American Culinary Federation Accrediting Commission
- American Dental Association Commission on Dental Accreditation
- American Health Information Management Association
- Commission on Accreditation of Allied Health Education Programs
- Committee on Accreditation Respiratory Care
- Council for Accreditation of Counseling and Related Educational Programs
- Council on Social Work Education
- Equipment and Engine Training Council
- Idaho State Board of Nursing
- International Association of Counseling Services
- Joint Review Committee on Education in Radiologic Technology
- National Association of Schools of Arts and Design
- National Association of Schools of Music
- National Association of Schools of Public Affairs and Administration
- National Association of Schools of Theatre
- National Association of State Directors of Teacher Education and Certification
- National Automotive Technicians Education Foundation
- National Council for Accreditation of Teacher Education
- National Council in Economic Education
- National Environmental Health Science and Protection Accreditation Council
- National League for Nursing
- Professional Truck Driving Institute

Students and Faculty

Each semester, Boise State University enrolls more than 19,000 students in its academic and applied technology programs. 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 both attracts and complements this diverse student body, which includes many nontraditional students as well as traditional students enrolling directly from high school.

Because Boise is the commercial, financial, health care, and governmental center of Idaho, as a Boise State University student you can reach beyond the classroom for experiences unavailable elsewhere in the state. For instance, you can enhance classroom learning and gain valuable work experience by serving as an intern with the State Legislature, government agencies, or private business and industry. In addition, you can attend a wide variety of civic, cultural, and social events hosted by Boise State University.

You will find that the university attracts faculty who are dedicated to excellence in teaching, creative in generating new knowledge, and generous in using their expertise to solve society's problems. Moreover, the faculty at Boise State University recognize that high-quality teaching is their primary goal, giving you the opportunity to work with some of the West's most respected scientists, artists, researchers, and educators.

In addition to helping students learn, Boise State University faculty assist business, industry, educational institutions, government agencies, and professional groups with educational programs and research-and-development efforts. The university also assists organizations in upgrading the knowledge and skills of employees.

A Tour of the Campus

Boise State University's 113-acre main campus is bordered to the north by the Boise River, to the south by University Drive, to the east by Broadway Avenue, and to the west by Ann Morrison Park. Step across the footbridge spanning the Boise River, and you are in the open green space of Julia Davis Park, home to the Idaho Historical Museum, the Boise Art Museum, and Zoo Boise. Just a few minutes' walk from campus is downtown Boise, where you will find inviting shops, fine restaurants, and vibrant nightlife.

On campus, the **Administration Building** contains the offices of several student services, including enrollment services, financial aid, and the registrar. **The Counseling and Testing Center** is located on the first floor of **Taylor Hall**, while the **Student Health Center** is located across University Drive from the main campus. Also on University Drive, the **Boise State University Career Center** is located across from Bronco Stadium.

The **Business Building** features computer labs and three electronic classrooms furnished with the latest in teleconferencing equipment. In addition, three **Engineering and Technology Buildings** contain modern classrooms and laboratories—many equipped with computers—for use in engineering, construction management, and other technical programs. Both the **Education Building** and the **Liberal Arts Building** offer comfortable, well-equipped classrooms and computer labs, as do the **Math/Geosciences Building,** the **Multi-Purpose Classroom Facility,** and the **Public Affairs/Art West Building**. The **Interactive Teaching and Learning Center** supports the latest in technology with 12 general use classrooms, multi-media labs, a classroom for research and innovation and even a 3-D visualization classroom. It is also home to the newly formed Center for Teaching and Learning at Boise State.

Other notable features of the campus include the **Albertsons Library** as well as the **Centennial Amphitheatre**—an outdoor venue for lectures, concerts, and plays. The **Morrison Center for the Performing Arts** houses the music department, the theatre arts department, 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, as well as athletic training facilities.

In the **Simplot/Micron Building**, Boise State University through Academic Technologies is pioneering the use of technology to improve the effectiveness of instruction and to provide learning opportunities at remote locations. For instance, a satellite earth station and an inter-campus microwave system enable students scattered throughout the state to participate in classes conducted on campus.

Boise State University students also enjoy a contemporary **Student Union**, which provides facilities for social, recreational, and cultural activities. In addition to a quick-copy center and three dining areas, the Student Union contains a game room, 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 190 recognized student organizations.

The **Taco Bell Arena** is Idaho's largest multi-purpose arena. When not filled with fans of Bronco basketball, gymnastics, or volleyball, the Taco Bell Arena is the site of concerts, professional sporting events, and family entertainment. Nearby is **Bronco Stadium**, with a seating capacity of 30,000.

The Albertsons Library

The Albertsons Library provides access to over 560,000 books, a vast array of journals, more than 160 databases, reference works, newspapers, and other sources for research and learning. Ample study spaces for individuals and groups are accessible within the Library. Reference librarians are available in the Library and online to help students with their research. The Library also serves as a student computer lab with over 95 computers available for student use.

- The Library's holdings exceed 2 million items, including access to:
- 565,900 monograph volumes
- 91,341 bound periodicals
- 40,000+ journals, periodicals and newspapers
- 200+ online databases
- 100,636 maps
- 100,462 U.S. government publications
- 1,440,091 microform pieces

The Web site **library.boisestate.edu** has links to many information resources including the library catalog, databases, online journals, and reference sources. Distance education students can find information on using the Library to obtain materials to support their coursework. Most of the online resources are available for student access off campus.

The **Reference** area is the information hub of the Library where staff is available to provide assistance and guidance in using library resources. These resources include an extensive collection of periodical indexes in print and electronic formats, handbooks, encyclopedia, dictionaries, U.S. government documents, and maps. The reference area also provides basic and advanced bibliographic search materials and instruction in their use.

The **Special Collections** area contains manuscript collections, rare books, and the university archives in addition to housing the papers of Senator Len B. Jordan, Senator Frank Church, and Interior Secretary/Governor Cecil Andrus. 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

The university provides student access to a variety of computer resources. There are many computer labs to support classroom assignments and discipline specific needs. All Boise State University offices and computer labs are connected to the campus fiber-optic network. This allows access to the campus network or the Internet. Wireless access to the Internet is also available. See www.boisestate.edu/oitlabs for more information.

Boise State University provides e-mail accounts for all students. Students who want access to e-mail and the Internet from home will need to purchase access through an Internet service provider (ISP).

As a student at Boise State University, 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 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 Western Athletic Conference (WAC) in football (2007 Tostitos Fiesta Bowl Champions), men's and women's basketball, men's and women's golf, women's gymnastics, women's soccer, women's softball, women's swimming and diving, men's and women's tennis, men's and women's track and field and cross country, and women's volleyball. The university competes in the PAC-10 in wrestling. Students that 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.

Student ticket policies to athletic events are listed in the *Boise State University Student Handbook*.

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

Campus Recreation

Campus Recreation offers activities that are exciting and challenging. The Student Recreation Center (SRC) serves as the hub for university students, faculty, staff, and alumni who want to participate in physical activity. It provides personalized training, competitive and recreational sports, club activities, group exercise, outdoor recreation, cardio and strength workout options, and a fun place to hang out with friends. A multitude of options are made available to meet the community's every need.

There are many opportunities to recreate at Boise State. The Student Recreation Center is comprised of a 3-court gymnasium, 4 racquetball courts (one of which converts to a squash court), a full compliment of strength and cardio equipment, multi-purpose rooms, and a rock climbing gym. In addition, there are locker rooms, saunas, equipment available for check out, athletic training, and massage services. Beyond the doors of the SRC, facilities include a swimming pool, recreation field, and tennis courts. Within these facilities, Campus Recreation offers a wide variety of programs.

The Fitness Program organizes over 50 drop-in group exercise classes each week during the semester including cycling, lift, yoga, street dance, and kickboxing. Motivational help in exercising is available, including instructional programs, periodic incentives, fitness testing, and personal training. Workshops related to fitness, health, and nutrition are offered to educate the Boise State University Community.

For students interested in an organized athletic activity the Intramural Sports Program establishes numerous on-campus activities. 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), which is played on the famous blue turf to kick off Homecoming week.

Club Sports offers athletic and competitive choices in a variety of disciplines for those interested in serious activity. 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. They 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 approximately two-dozen existing Club Sports, however if a person's interests are not represented, Campus Recreation is more than happy to help them start a new club.

The Outdoor Program strives to take people away from the confines of campus to explore all that southern Idaho has to offer. A rental shop provides inexpensive four-season equipment rental. The experienced staff can provide trip-planning assistance while its library has maps and guidebooks for reference. If someone is interested in learning a new skill or building upon their current knowledge, workshops and seminars are provided in a variety of outdoor activities

For more information, leadership opportunities, and additional activities, come visit us at the Student Recreation Center, call 208 426-1131, or go to http://rec.boisestate.edu.

Colleges

The university is organized into eight colleges: College of Arts and Sciences, College of Business and Economics, College of Education, College of Engineering, College of Health Sciences, College of Social Sciences and Public Affairs, Larry G. Selland College of Applied Technology, and the Graduate College.

College of Arts and Sciences

Dean: Martin Schimpf, Ph.D.
Telephone 208 426-1414
Fax 208 426-3006

Associate Dean: Helen Lojek, Ph.D.
Telephone 208 426-1414

Philosophy

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 core 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 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 and entertainment events.

Objectives

The College of Arts and Sciences has the following objectives:

1. To offer programs of study leading to baccalaureate degrees in the following fields:
   - **Arts** (art, graphic design, illustration, music, and theatre arts)
   - **Humanities** (art history, English, French, German, Spanish, and philosophy)
   - **Sciences** (biology, biochemistry, chemistry, earth science, environmental studies, geophysics, geosciences, mathematics, and physics)
   - **Interdisciplinary Studies**
2. To offer programs of study leading to the master's degree in the following fields:
   - art (master of arts)
   - biology (master of arts or master of science)
   - creative writing (master of fine arts)
   - earth science (master of science)
   - mathematics (master of science)
   - mathematics education (master of science)
   - English (master of arts)
   - geophysics (master of science)
   - geosciences (master of science)
   - hydrologic sciences (master of science)
   - interdisciplinary studies (master of arts and master of science)
   - music education, pedagogy, performance, (master of music)
   - raptor biology (master of science)
   - technical communication (master of arts)
   - visual arts (master of fine arts)
3. To offer programs of study leading to a Doctor of Philosophy degrees in Geophysics and Geosciences.
   For more information, see the *Boise State Graduate Catalog.*
4. To offer undergraduate programs of study leading to minors in art, biology, chemistry, English, environmental studies, Chinese, French, German, Japanese, mathematics, music, philosophy, physics, Spanish, and theatre arts.
5. To offer undergraduate preparation in pre-architecture and pre-forestry and pre-wildlife management.
6. To offer elective and service courses for students majoring in other colleges or schools.

Activities

Departments within the College of Arts and Sciences sponsor a variety of activities that complement and enhance the traditional curriculum. For instance, the English Department is the home of several publishing ventures, including *cold-drill* (Boise State University's national award-winning student literary magazine), *Ahsahta Press* (poetry by western poets and others), the Western Writers Series (booklets about the lives and works of Western authors), *Poetry in Public Places* (posters distributed throughout the Northwest), and the *Idaho Review* (a national literary journal published by the M.F.A. in Creative Writing Program and featuring the work of the best writers in this country).

The Department of Biological Sciences houses both the Biomolecular Research Center and the Raptor Research Center. The Biomolecular Research Center is a collaborative center for interdisciplinary research and education. It focuses on the study of biomolecules with emphasis on proteins and protein interactions. Partnerships exist between the Center and other Idaho colleges and universities. The Raptor Research Center, along with department faculty, collaborates to pursue research, education, and conservation projects regarding birds of prey and their ecosystems. The Department of Biological Sciences is affiliated with the World Center for Birds of Prey, located near Boise. It also provides support for the Idaho Bird Observatory, a migratory bird trapping and banding station located in the Boise foothills. Furthermore, the department is affiliated with the Snake River Field Station, which is located on the Boise State campus and is part of the U.S. Geological Survey Forest and Rangeland Ecosystem Science Center.

CGISS, the Center for Geophysical Investigation of the Shallow Subsurface, a research center housed within the geosciences department, focuses on investigating engineering applications and environmental problems in the shallow subsurface of the earth. The geosciences are also affiliated with the Permian Research Institute (PRI), and the Geospatial Research Facility (GRF). Both of these research units are designed for students to learn geology and geographical information systems.

The Theatre Arts Department produces a season of plays and dance concerts and is affiliated with Idaho Shakespeare Festival, Idaho Dance Theatre, and Idaho Theatre for Youth. The Hemingway Western Studies Center works with various university departments and organizations to co-sponsor exhibitions, symposia, performances, plays, and films. The Hemingway Western Studies Center also sponsors an annual national book competition and has been designated by the Library of Congress as the Idaho Center for the Book, responsible for initiating and coordinating statewide exhibitions and events related to books and publishing.

Students can participate in many activities sponsored by the departments in the College, including art exhibits, productions of plays during the academic year and in the summer, student recitals and ensemble concerts, and a variety of scientific field trips.

Student Organizations

- American Chemical Society Student Affiliate
- American String Teachers Association
- Art Metals Club
- Black Holez Astronomy Club
- Chinese Club
- English Major's Association
- Environmental Studies Association
- Idaho Music Teachers Association
- Kappa Kappa Psi (College/ University Bands)
- Music Educators National Conference
- Philosophy Club
- Red Circle Press
- Scabbard and Blade
- Sculpture Club
- Sigma Gamma Epsilon Honor Society (Geosciences)
- Sigma Tau Delta Honor Society (English)
- Societas Biophilia (Biology)
- Spanish Club
- Theatre Majors Association
- University Symphonic Winds
- Visual Arts League

College of Business and Economics

Interim Dean: Diane Schooley-Pettis, Ph.D.
Telephone 208 426-1125
Fax 208 426-1135
http://cobe.boisestate.edu
e-mail: cobe-info@boisestate.edu

Interim Associate Dean: Paul Bahnson, Ph.D.
Telephone 208 426-3110
Fax 208 426-3637

Associate Dean for Graduate Studies and Executive Education, Kirk Smith, Ph.D.
Telephone 208 426-3180

Director of College of Business and Economics Student Services Center: Debi Mundell

The College of Business and Economics at Boise State University is composed of five academic departments, four centers, and the International Business Program.

- Department of Accountancy
- Department of Economics
- Department of Information Technology and Supply Chain Management
- Department of Management
- Department of Marketing and Finance
- Centre for Creativity and Innovation and International Business Program (Nancy Napier, Director)
- Idaho Small Business Development Center (Jim Hogge, Director)
- Idaho Council on Economic Education (Leon Maynard, President)
- TechHelp Center (Michael Wojcicki, Director)

Mission

The College of Business and Economics provides high-quality accessible AACSB-International-accredited education.

We create, disseminate, and apply innovative knowledge to support economic and business development, primarily in Idaho and the region.

Our students, staff, and faculty engage our chief constituencies: communities, businesses (profit and not-for-profit), organizations, and governmental entities.

Accreditation

Undergraduate and graduate programs in the College of Business and Economics are accredited by the AACSB International – The Association to Advance Collegiate Schools of Business. This is a distinction held by only 15% 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 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 Business Building, Room 116, 208 426-3859, or e-mail the Center at: stuserv@boisestate.edu.

Student Scholarships

Scholarships are available to students demonstrating potential for excellence in business studies. Over $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.

Student Organizations

The way to gain the best experience is to participate in one of the excellent college student organizations. Among the many student organizations of interest to business majors are the following:

- Alpha Kappa Psi (Business)
- American Advertising Federation Association
- American Production and Inventory Control Society
- Association of Information Technology Professionals
- Beta Alpha Psi (Accounting)
- Delta Epsilon Chi (Marketing)
- Economics Association
- Financial Management Association
- Human Resource Association
- International Business Organization

In addition, the College of Business and Economics has a chapter of Beta Gamma Sigma, the national scholastic honor society for business students in AACSB International accredited schools.

Special Requirements and Options

Students may obtain a bachelor of business administration (B.B.A.) degree by completing all requirements for that degree. Additionally, students may qualify for the B.A. or B.S. degree by completing the additional liberal arts or science course requirements for those degrees. Students should consult with faculty advisors about these additional requirements.

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. Over 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: Diane Boothe, DPA
Telephone 208 426-1611
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e-mail: DianeBoothe@boisestate.edu
http://education.boisestate.edu

Associate Dean: Ross E. Vaughn, Ph.D.
Telephone 208 426-1611
e-mail: rvaughn@boisestate.edu

The College of Education at Boise State University is comprised of seven academic departments and five centers. They are the:

- Department of Bilingual Education
- Department of Counselor Education
- Department of Curriculum, Instruction, and Foundational Studies
- Department of Educational Technology
- Department of Kinesiology
- Department of Literacy
- Department of Special Education and Early Childhood Studies
- Center for School Improvement and Policy Studies (William Parrett, Director)
- Center for Multicultural and Educational Opportunities (Scott Willison, Director)
- Center for Orthopaedic and Biomechanics Research (Ron Pfeiffer, Co-director)
- Center for Physical Activity and Sport (Linda Petlichkoff, Director)
- Idaho Center for Economic Education (Leon Maynard, Director)

The College of Education offers degrees at the associate, bachelors, masters, and doctoral levels that are a blend of well designed campus-based course work and field experiences. The College offers twelve undergraduate degree programs and works collaboratively with the Colleges of Arts and Sciences and Social Sciences and Public Affairs to prepare teachers in 16 additional undergraduate degree programs.

Our 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.

Our 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

The National Council for the Accreditation of Teacher Education (NCATE) accredits all undergraduate and graduate teacher education programs and the Professional Standards Commission of the Idaho State Board of Education approves all teacher education programs. The Council for Accreditation of Counseling and Related Educational Programs (CACREP) accredits the Counseling Program. The Athletic Training Program is fully accredited by the Commission on Accreditation of Athletic Training Education (CAATE). Other programs in the Education Unit that prepare school personnel are accredited by the Association of Social Work Education, the Association to Advance Collegiate Schools of Business, the National Association of Schools of Music and the National Association of Schools of Theater.

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 course work 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 dean of the College.

Academic Advising

The College of Education offers advising to students through several different avenues. In teacher education, Program Coordinators are responsible for advising. In large programs, such as elementary education, students may be assigned a specific faculty advisor to assist them. Secondary teacher education students are advised by the faculty of the department in which the program major is housed.

Office of Teacher Education

Director: TBD
Telephone: 208 426-1991
Fax: 208 426-4403
e-mail: TBD

The Director of 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.

Student Organizations

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.

- Bilingual Education Student Organization
- Council for Exceptional Children
- Health & Human Performance Club
- Kappa Delta Pi Honor Society for Education
- Student Athletic Trainer's Association
- Teacher Education Association

College of Engineering

Dean: Cheryl B. Schrader, Ph.D.
Telephone 208 426-1153
Fax 208 426-4466
http://coen.boisestate.edu/

Associate Dean for Academic Affairs: Janet Callahan, Ph.D.
Telephone 208 426-5983
e-mail: janetcallahan@boisestate.edu

Assistant Dean for Research and Infrastructure: Rex Oxford
Telephone 426-5744
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The College of Engineering at Boise State University is made up of seven departments: Civil Engineering, Computer Science, Electrical and Computer Engineering, Mechanical and Biomedical Engineering, Construction Management, Materials Science and Engineering, and Instructional & Performance Technology. The program in construction management offers the bachelor of science degree, while the program in instructional and performance technology offers a master of science degree. The engineering and computer science programs all offer both bachelor's and master's degrees.

Accreditation

The undergraduate programs in civil, electrical, materials science and engineering, and mechanical engineering are accredited by the Engineering Accreditation Commission of the Accreditation Board for Engineering and Technology (ABET), 111 Market Place, Suite 1050, Baltimore, MD 21202-4012, telephone 410 347-7700.

The undergraduate program in computer science is accredited by the Computing Accreditation Commission of the Accreditation Board for Engineering and Technology (ABET), 111 Market Place, Suite 1050, Baltimore, MD 21202-4012, telephone 410 347-7700, 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; telephone 210 495-6161, http://www.acce-hq.org.

Mission Statement

To provide accessible, high-quality, nationally recognized programs of instruction, research, and service that prepare students for engineering and other high technology careers and for life-long learning, and that support individuals and organizations in Idaho, the Northwest region, and the nation.

Approach to Learning and Instruction

Students are our top priority, and our faculty are the most important contributors to their 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 life-long enthusiasm for learning, and to recognize that such life-long learning is vital to their career success.

Faculty members are dedicated to providing the best education possible. Faculty members are active in professional societies and serve in leadership roles in those societies. Professional registration of engineering faculty who teach upper-division engineering design subjects is a legal requirement in the State of Idaho, and almost all engineering faculty members are registered professional engineers. Most courses are presented by the faculty in conventional lecture or laboratory fashion, but some faculty members are utilizing new delivery systems including the offering of some courses, specifically selected for distance delivery, over a compressed-video network. Instructional & Performance Technology courses are delivered not only in the traditional manner but all over the world from Boise State University by distance techniques which utilize the Internet. Laboratories are equipped with excellent quality, state-of-the-art equipment. Networked computer lab facilities include both PC and UNIX environments with the latest versions of software. Classrooms are designed to encourage both individual and teamwork efforts. 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 microelectronics, integrated design, device mechanics, robotics, advanced materials, fluid mechanics, and soil mechanics.

Student Organizations

Professionalism among the students is encouraged, and student chapters of professional societies are organized and active. The following student organizations are of interest to many of the students in the College:

- American Society of Civil Engineering (ASCE) Student Chapter
- American Society of Heating, Refrigeration and Air-Conditioning Engineers (ASHRAE) Student Chapter
- American Society of Mechanical Engineers (ASME) Student Chapter
- Associated General Contractors (AGC) Student Chapter
- Associated Students of Computer Technology
- Civil Engineering Club
- Computer Science Club
- Construction Management Club
- Engineering Honors Society
- Eta Kappa Nu (National Honorary Electrical Engineering Society)
- Institute of Electrical and Electronics Engineers (IEEE) Student Chapter
- Institute of Transportation Engineers
- Materials Research Society (MRS) Student Chapter
- Sigma Lambda Chi Honor Society (Construction)
- Society of Automotive Engineers (SAE) Student Chapter
- Society of Hispanic Professional Engineers (SHPE) Student Chapter
- Society of Women Engineers (SWE) Student Chapter

Scholarships/Internships

Students are encouraged to apply for scholarships. About $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 117, 208 426-1664, online at http://financialaid.boisestate.edu/scholarships/sch_dept.htm. Students are also strongly encouraged to participate in internship experiences during their college career. These internships, which 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.

Cooperative/International Agreements

The College of Engineering has cooperative agreements with the College of Idaho (CI), Fort Lewis State College (FLSC), Lewis-Clark State College (LCSC), and Northwest Nazarene University (NNU) for dual degree programs in engineering. In these agreements students may attend either CI, FLSC, LCSC, or NNU for three years and then Boise State for two years. Upon completion of the academic requirements from the cooperating institutions, the student will be concurrently awarded a bachelor's degree from the first institution (CI, FLSC, LCSC, or NNU) and a bachelor's degree in engineering from Boise State. Additional articulation agreements have been established with Blue Mountain Community College (BMCC), and BYU of Idaho (BYUI), in which students may attend BMCC or BYUI for two years, completing an associates degree, and transfer to Boise State to earn a bachelor's degree in engineering or construction management. Students interested in these programs should contact admissions officers at CI, FLSC, LCSC, NNU, BMCC, BYUI, or Boise State.

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/pgms/global-e3. Students interested in participating in such a exchange program should contact their advisor at Boise State.

College of Health Sciences

Dean: James Girvan, Ph.D.
Health Sciences Riverside Building, Room 207
Telephone 208 426-4116
Fax 208 426-3469
http://hs.boisestate.edu
e-mail: jgirvan@boisestate.edu

Associate Dean: Pam Springer, Ph.D.
Telephone 208 426-4143

Associate Dean: Sarah Toevs, Ph.D.
Telephone 208 426-3929

The College of Health Sciences dedicates itself to providing quality educational programs for students wishing to enter health professions. Integrated into the students' program are opportunities for multicultural, multiethnic experiences. 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. Program goals are achieved through collaboration with area health partners: including medical centers, public health agencies, area nonprofit agencies, and health care professionals. Innovative program curricula, excellence in teaching, community service, and faculty scholarly activities are hallmarks of programs in the college.

The College of Health Sciences takes great pride in its programs:

- environmental health (baccalaureate degree)
- health informatics and information management (2-year associate degree)
- health informatics and information management (baccalaureate degree)
- health science studies (baccalaureate degree)
- nursing (baccalaureate degree registered nurse, and masters in nursing)
- radiologic sciences (3-year associate and baccalaureate degree)
- respiratory care (3-year associate and baccalaureate degree)
- health science (master's degree)

The College of Health Sciences also assists students who want to pursue health-professional degrees at other institutions. Graduate study is available through a master's of health science with emphasis on health policy, environmental health, health promotion, health services leadership, and general health research. The master of nursing offers both MSN and MN options. In addition, the college has graduate certificates programs in addictions studies, health services leadership, and gerontological studies.

Cooperating Agencies

Boise State University offers students a unique opportunity to learn a health profession in a state-of-the-art regional medical center. 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 Samaritan Village, Boise, Idaho
Booth Memorial Home (Salvation Army), Boise, Idaho
Central District Health Department, Boise, Idaho
Community Home Health, Boise, Idaho
El Ada Head Start, Boise, Idaho
Family Medicine Residency, Boise, Idaho
Grand Oakes Health Care, Boise, Idaho
Hillcrest Care Center, Boise, Idaho
Idaho Department of Health and Welfare, Boise, Idaho
Idaho Elks Rehabilitation Hospital, Boise, Idaho
Idaho Veterans Nursing Home, Boise, Idaho
Independent School District of Boise City, Boise, Idaho
Intermountain Hospital, Boise, Idaho
Magic Valley Regional Medical Center, Twin Falls, Idaho
Mercy Medical Center, Nampa, Idaho
Mountain States Tumor Institute, Boise, Idaho
Nelson Institute, Boise, Idaho
Patient and Family Support Institute, Inc., Boise, Idaho
Saint Alphonsus Regional Medical Center, Boise, Idaho
St. Luke's Regional Medical Center, Boise, Idaho
St. Mary's School, Boise, Idaho
Terry Reilly Health Services, Nampa, Idaho
Treasure Valley Manor, Boise, Idaho
Veterans Administration Medical Center, Boise, Idaho
Walter Knox Memorial Hospital, Emmett, Idaho
West Valley Medical Center, Caldwell, Idaho
YWCA (Battered Women's Unit), Boise, Idaho

Accreditation

The college's degree programs in nursing, respiratory care, radiologic sciences, health information technology, and environmental health 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

Each department provides specialized advising for students and is the initial contact point for determining classes and program admission criteria. Four programs—health information technology, nursing, respiratory care, and radiologic sciences—have limitations on the numbers of new students they take into their programs each year. Admission criteria for these programs may be obtained from the departments. Openings in these programs are very competitive so prospective students should both contact an advisor and perform well in pre-requisite courses to enhance their chance for acceptance.

Center for Health Policy

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

Center for Excellence in Environmental Health and Safety (CEEHS)

The College serves as the home for the CEEHS. The CEEHS exists to provide training and certificate programs for environmental health professions 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 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). This Center focuses on: facilitating faculty and student interdisciplinary research in areas related to aging, providing educational materials and programs on topics of interest of scholars, agencies serving the aging, and 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 co-sponsors of the Institute for the Study of Addiction. This multidisciplinary center utilizes faculty from a variety of disciplines to conduct research and service activities investigating the complex nature of addictions. Emphasizing the importance of serving the entire state, 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 in drug/alcohol/tobacco information. The center is unique to institutions of higher education in Idaho.

Multiculture/Multiethnic 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 Program in Morelia, Mexico. In this program, students spend five weeks in Morelia during the summer, studying Spanish and the Mexican culture. In addition, the college has arranged internship opportunities for students to enhance their learning experience.

Program Advisory Boards

The college uses various advisory boards to ensure that Boise State University provides high-quality programs for our students and appropriate professional education programs for health agencies in the Boise State University service area. The college wide advisory board assists in strategic planning and makes suggestions for program additions or improvement. This board consists of area health professionals and representatives from the area's regional medical centers, state health professional associations, area businesses, and the public. In addition, each department has its own advisory board consisting of professionals, agency representatives, and students.

Student Organizations

- Lambda Nu National Honor Society (Radiological & Imaging Science)
- Pre-Dental Club
- Pre-Med Club
- Respiratory Therapy Students
- Student Association for Radiologic Technologists
- Student Nurses Association

College of Social Sciences and Public Affairs

Dean: Melissa Lavitt, Ph.D.
Telephone 208 426-3776
Fax 208 426-4318
http://sspa.boisestate.edu
e-mail: sspadean@boisestate.edu

Associate Dean: L. Shelton Woods, Ph.D.
Telephone 208 426-1368

The mission of the College of Social Sciences and Public Affairs (SSPA) includes the following:

- SSPA is the lead institution in the state of Idaho for providing education and scholarship in Public Affairs and Social Sciences.
- SSPA promotes excellence in teaching, research, and service to address major social and political issues, with an emphasis on policy issues.
- SSPA faculty and administration work to balance the theoretical and applied natures of our disciplines to best meet the needs of our student and community constituents.

The College's location in the state's population, business, and government hub provides outstanding opportunities for students to serve as interns in government agencies, the Idaho legislature, corporations, nonprofit agencies, and numerous other places in the public and private sector. The 3,500 students majoring in social sciences participate in a variety of activities sponsored by the College, including an Archaeology Field School, Boise State University's Speech and Debate Team, University Television Productions, and the undergraduate research initiative. In addition, many students assist with faculty research and attend such conferences as the Frank Church Conference on Public Affairs.

Degrees in the social sciences prepare students for careers in public and private sectors, as well as for advanced graduate studies. Faculty within the college teach a full range of social science classes, comprising 25% of Boise State University's total offerings. They conduct research in areas of vital concern to public policy, human behavior, and the working of society. In addition, faculty provide leadership as expert consultants to local, state, and national groups and participate in public-service activities within the local community. The College also prepares students for careers in secondary education in history and the social sciences.

SSPA 294, 494, 594 COLLEGE OF SOCIAL SCIENCES AND PUBLIC AFFAIRS CONFERENCE OR WORKSHOP (0-4 credits)

Degree Programs

As the lead institution within Idaho for public policy and the social sciences, the College is composed of the following academic units:

- Anthropology
- Communication
- Criminal Justice
- History
- Military Science
- Political Science
- Psychology
- Public Policy and Administration
- Social Work
- Sociology

The College offers the following programs of study:

- Associate of Arts in Social Science (Department of Sociology)
- Associate of Science in Criminal Justice
- Dispute Resolution certificate (various academic programs and courses)
- graduate certificate in Community and Regional Planning
- graduate certificate in Conflict Management
- graduate certificate in Gerontology
- Legal Assistant certificate (various academic programs and courses)
- major in Multi-Ethnic Studies (Department of Sociology)
- major in Social Sciences (Department of Sociology)
- minor in Canadian Studies (various academic departments and courses)
- minor in Gender Studies (various academic departments and courses)
- minor in Gerontology (School of Social Work)
- minor in Latin (Department of History)
- minor in Mexican-American Studies (Department of Sociology)
- minor in Native American Studies (Department of Anthropology)

Center for Applied Archaeological Science

The Center for Applied Archaeological Science (CAAS) is a research and contract archaeology program housed within the Department of Anthropology. CAAS conducts cultural resource projects that include the development of archaeological research designs, archaeological and historical surveys, testing programs, data recovery protocols, full-scale and multi-year excavations, Section 106 compliance coordination, archival research, National Register Nominations, and NAGPRA consultations. For more information visit http://anthro.boisestate.edu/CAAS/index.shtml.

Center for Idaho History and Politics

The Center for the Study of Idaho History and Politics applies the methods and insights of history to political and ecological problems vexing the region and the state. The center sponsors workshops, tours and projects such as books and historical exhibits. The purpose of the Center is to explore the historical dimension of political and ecological problems. The Center hopes to broaden the community-based scholarship of a non-academic audience, use historic downtown Boise as a laboratory for the study of changes in the urban landscape and to draw on historical experience, whether recent or remote, in the process of understanding our city and state. To learn more about the center, visit www.boisestate.edu/history/idaho/.

Center for Public Policy and Administration

Housed in the Department of Public Policy and Administration, the Center for Public Policy and Administration conducts applied research and training programs for state and local officials and nonprofit organizations. Telephone: 208 426-1476. For more information visit http://ppa.boisestate.edu/centerppa/.

Center for the Study of Aging

The Center for the Study of Aging, a joint venture with the College of Health Sciences, addresses the various needs of the aging Baby Boom generation—25 percent of whom will be senior citizens by the year 2020. The center coordinates research that enhances policy development and program improvement and facilitates training to caregivers. Examples of areas addressed by the center include: elder abuse and fraud, long term care, accessing the health care system, estates and retirement planning, end of life issues and an analysis of the social and economic impact of various initiatives related to aging. For more information visit http://aging.boisestate.edu.

Conflict Management Services

Conflict Management Services provides information and training about conflict management to the general public and students, provides referral services and technical assistance in conflict resolution, conducts conferences and educational forums, and provides support for conflict management programs and organizations. Telephone 208 426-3928.

Environmental Finance Center

The Region 10 Environmental Finance Center (EFC), housed in the Department of Public Policy and Administration, serves communities in the Pacific Northwest and intermountain states of Oregon, Washington, Idaho, and Alaska. The Center also provides training, education and assistance programs nationwide. The mission of the EFC is to help communities and states with the financial issues related to environmental protection. The EFC is also assisting the states in improving institutional capacity, in formulating and implementing strategies for enhancing drinking-water program capacity, and in improving the financial and managerial capacity of public water systems and wastewater systems. Director: Bill Jarocki. Telephone: 208 426-1567. For more information visit http://efc.boisestate.edu/efc/.

Family Studies Initiative

Working within the Center for Applied Psychological Science (housed in the Department of Psychology), the Family Studies Initiative represents the collaboration of scientists from diverse disciplines working together with community leaders dedicated to improving the lives of children and the well being of families throughout Idaho. The broad goals of the Family Studies Initiative include providing an interdisciplinary culture for research on different aspects of families as well as using research findings and perspectives to contribute to quality teaching and educational opportunities and to meaningful collaborations with community leaders and agencies. The Initiative operates to ensure that family research plays a central role in the teaching, research, and service contributions of Boise State. Director: Linda Anooshian. Telephone: 208 426-1960. For more information visit http://familystudies.boisestate.edu/

Institute for Urban and Regional Planning

Housed in the College of Social Sciences and Public Affairs, the Institute's mission is to assist in the development, implementation, and evaluation of public policies that facilitate regional planning among various entities in the Treasure Valley and to become a repository of public policy information related to urban and regional planning. Telephone 208 426-3776.

Social Science Research Center

The Social Science Research Center was established to conduct surveys for individuals, government agencies, and public-interest groups and to fulfill the state-wide mission in public affairs, as mandated for Boise State by the State Board of Education. The Center's goal is to provide research that will assist Idaho's citizens and policy makers in their efforts to solve state and local problems. The Center conducts the annual Idaho Policy Survey, an omnibus poll of Idaho residents on major public policy issues. Telephone 208 426-1835.

Student Organizations

- Alpha Phi Sigma Honor Society (Criminal Justice)
- Anthropology Club
- Archaeological Students Association
- Association of Psychology Students
- Conflict Management Service Organization
- Environmental Health Club
- Gamma Beta Phi Honor Society
- Lambda Alpha Epsilon (Criminal Justice)
- Master of Public Administration Student Association
- Mechanical Engineering Club
- Organization of Student Social Workers
- Phi Alpha Honor Society (Social Work)
- Phi Alpha Theta Honor Society (History)
- Pi Kappa Delta Honor Society (Forensics/Debate)
- Pi Sigma Alpha Honor Society (Political Science)
- Political Science Association
- Pre-Law Society
- Psi Chi (Psychology)
- Ranger Club
- SAFE @ Boise State

Larry G. Selland College of Applied Technology

Interim Dean: Vera McCrink

Associate Dean of Instruction: Vera McCrink, Ph.D.

Associate Dean of Enrollment Management: Victor Watson, Ed.D.

Associate Dean of Community, Economic and Workforce Development: Stan Brings, Ed.D.

Telephone 208 426-2238
Fax 208 426-4135
http://selland.boisestate.edu

The Larry G. Selland College of Applied Technology is a comprehensive two-year technical college of Boise State University. Our focus is two-fold — literacy training/development and work force training. Our primary focus is to prepare skilled technicians, craft workers, and professionals requiring up to two years of training. The Larry Selland College is designed to effectively address the needs in these areas and to create an environment conducive to attracting new industry, while helping existing industry to prosper. The College's role is consistent with Boise State University's mission to provide special emphasis in applied technology.

The programs and services offered through the Larry Selland College are in direct response to the needs of current and emerging industries throughout southwest Idaho. Increasingly, workers at all levels must possess an ever-broader base of technical knowledge and skills to be productive and competitive.

The Larry Selland College provides full-time applied technology course offerings through eight Centers of Distinction: Business and Management Technology; Construction Technology; Culinary Arts; Health and Human Services; Horticulture; Information Technology; Manufacturing and Engineering Technology; Transportation Technology. The College provides numerous technical certificates and Associate of Applied Science degree majors. The degree and certificate program descriptions and course offerings for these instructional divisions are detailed in Chapter 13. Larry Selland College offers a Bachelor of Applied Science degree, 2 + 2 opportunity for those students earning an A.A.S. degree.

Instructional content in all programs is delivered through competency based curricula blended with small group and individualized instructional techniques. A comprehensive outcomes assessment model ensures program focus on stated objectives. Job placement is of high priority and serves as an essential indicator of program quality.

Larry Selland College has a Student Support Unit which serves as the educational entry point for services and is designed to provide a seamless system of student supportive activities including assessment, counseling, and advising for both Applied Technology and Basic Education students. These services are focused on assisting individuals towards achievement of competencies that will support their educational, training, retraining and/or employment goals. Through a "one stop shop" approach, the Unit is committed to an "Open Door" philosophy, customer service, program quality, and accountability.

Larry Selland College's Applied Academics provides developmental and academic skills instruction, tutoring services, and applied courses in math, communication, and human relations.

Larry Selland College embraces Tech Prep, which is a program designed to enhance the secondary/post-secondary technical education experience to improve student opportunities for better jobs, higher wages, and promotions. Technical course work in high school is compared to technical course work in college. Wherever there is common curriculum, high school students may begin earning college credits towards certificate and/or degree programs — at the same time fulfilling their high school graduation requirements. To take advantage of this opportunity students must fill out a Tech Prep enrollment form available through their high school counselor.

The College's **Center for Workforce Training** responds to the specific needs of employers and individuals of southwest Idaho by providing short term non-credit training in a variety of areas. Training is open to the general public in workskill areas such as Computer Software, Certified Nursing Assistant, and Apprenticeships in the building trades. Some of this training is customized to meet the specific needs of a specific employer.

The **Learning Center for Adult Basic Education** program provides quality education for out of school youth an d adults residing within the ten-county region of in Southwest Idaho. The program serves the educational needs of a diverse population by providing adult literacy programs, English Language Learners, computer literacy, basic skill instruction for the workplace and GED preparation.

Student Organizations

- Associated Students of Computer Technology
- Business Professionals of America
- Collision Coalition
- Computer Network Gaming Club
- Drafting Club
- Machinist Club
- Mechanics Anonymous
- Recreational and Small Engine Repair
- Selland College of Applied Technology National Technical Honor Society
- Skills USA

Graduate College

Graduate Dean: John R. Pelton, Ph.D.
Associate Graduate Dean: Alfred M. Dufty, Jr., Ph.D.
Business Building, Room 117
Telephone 208 426-3647
Fax 208 426-2789

Graduate Admission and Degree Services
Office Services Supervisor: Linda Platt
Math/Geosciences Building, Room 141
Telephone 208 426-3903/4204
Fax 208 426-2789
http://www.boisestate.edu/gradcoll
e-mail: gradcoll@boisestate.edu

Graduate programs at Boise State University were first offered in 1971. Today, the Graduate College provides master's or doctoral degree programs in a variety of fields for qualified students to pursue advanced study and research under the mentorship of the graduate faculty. The reasons for enrolling in the Graduate College are as varied as the people who make up the graduate student population of over 2,000. Students enroll to prepare for academic or other professional careers, to improve skills used in employment, or to gain personal intellectual enrichment and professional development. A decision to continue education at the graduate level means joining other graduate students and faculty in the adventure of discovery—discovery of new understanding and information, discovery of new skills and techniques, discovery of the excitement of intellectual achievement, and discovery of new friends and associates. The Graduate College and the graduate faculty are committed to providing the opportunity and the guidance to support efforts of all graduate students as they achieve their academic goals.

Graduate Credit Options for Seniors

Senior undergraduate students may receive graduate credit according to the following policies:

To take graduate courses under either of these policies, you must first complete the *Permit for Seniors to Take Graduate Courses,* available online at http://registrar.boisestate.edu/Forms.htm; in Graduate Admission and Degree Services, Math/Geosciences Building, Room 141; or in the BroncoWeb Help Center, Administration Building, Room 110.

Graduate Courses for Undergraduate Credit Boise State seniors may take up to two 500-level courses for upper-division credit and apply those credits to their baccalaureate degree program. M.B.A. courses are excluded from this policy. The dean of the Graduate College determines whether a student is to be considered a senior under this policy.

Graduate Courses Reserved for Graduate Credit Students may enroll in 300G, 400G, or 500-level courses during their senior year. However, students must first obtain approval from the instructor of the course, the chair or program coordinator of the department offering the course, and final approval from the dean of the Graduate College. Credits earned in this fashion may be applied toward a graduate degree at Boise State University subject to admission to a graduate program and any further restrictions imposed by the program. M.B.A. courses are excluded from this policy.

Boise State University Graduate Catalog

A catalog describing graduate programs at Boise State University is available from Graduate Admission and Degree Services, Math/Geosciences Building, Room 141, 208 426-3903. The *Boise State University Graduate Catalog* is also online at http://registrar.boisestate.edu/catalogs.htm.

Division of Extended Studies

Dean: Mark Wheeler
Assistant Dean: Kenneth Brauchle, Ph.D.
1015 Grant Avenue
Telephone 208 426-1709
Fax 208 426-3467
http://www.boisestate.edu/extendedstudies/
e-mail: ESTellUs@boisestate.edu

The Division of Extended Studies is committed to providing access to higher education–at convenient times, places, and in flexible, innovative formats for diverse student populations from high school age to retirees.

Our programs expand the range and access to educational opportunities offered by Boise State's seven academic colleges. Programs administered by Extended Studies include off-campus sites, Summer Programs, Distance Education (courses delivered through the use of technology), Weekend University, Study Tours, workshops and noncredit personal enrichment courses for the community. In addition, we offer Concurrent Enrollment for high school students, Osher Lifelong Learning Institute for seasoned learners, Boise State AfterWork program, and the Center for Professional Development to serve the needs of business, industry, and government.

Summer Program

Academic programs, courses, and services are offered during the summer, including graduate, undergraduate, and noncredit courses in 3-week, 5-week, 8-week sessions, and a 10-week session. A variety of workshops is also offered each summer. The *Boise State University Summer Schedule of Classes* is available to students each spring. The schedules are also available at broncoweb.boisestate.edu. For more information, call 208 426-1709.

Off-Campus Sites

The Division of Extended Studies offers a wide range of academic courses. Depending on the location, students can earn associate degrees, bachelor degrees and even master's degrees at locations off the main campus. Advising, registration, book sales, and library services are available at most off-campus sites, and many locations serve as receiving sites for Knowledge Network, a series of interactive, televised classes broadcast from the Boise campus. The off-campus locations are:

Boise State West
5500 E. University Way, Nampa, ID 83687
208 562-3100

Boise State University Canyon County Campus
2407 Caldwell Boulevard, Nampa ID 83651
208 562-2100

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

Mountain Home Air Force Base
665 Falcon, Mountain Home Air Force Base, ID 83648
208 828-6746 or 208 426-1709

Twin Falls
Taylor Administration Building
College of Southern Idaho Campus
208 736-2161

Weekend University

A large selection of academic classes is offered on campus on Friday evenings, in two time blocks on Saturday and on Sunday afternoons, to allow students more flexibility in scheduling. Courses are taught by Boise State University faculty and Boise State University adjunct faculty. For more information, call 208 426-1709.

Boise State AfterWork

The AfterWork program at Boise State University enables working adults to complete a bachelors degree in the evening and on weekends throughout the year—including summer. All required classes in the major are offered on a rotating basis, at least once every 2 years. The bachelor degree programs available are: accountancy, applied science, communications, criminal justice, general business, health science studies, and information technology management. To learn more about the AfterWork program, visit our webpage at: www.boisestate.edu/afterwork; call 208 426-1709; or e-mail: afterwork@boisestate.edu.

Distance Education Classes

Boise State University offers classes and programs through technologically mediated distance education methods such as: Internet, Knowledge Network, interactive and cable television, telecourses, videoconferencing, etc.

Courses Offered via the Internet Instruction using computers, the Internet, and/or multimedia allows students worldwide to participate in Boise State courses. Undergraduate classes are available, as are classes leading to master's degrees in instructional and performance technology, nursing, and educational technology. For more information, call 208 426-1709.

Knowledge Network and Cable Television Using one-way video and two-way audio, Boise State faculty broadcast live, interactive classes to such receiving locations as the Boise State Campus, Canyon County Campus, Mountain Home AFB, and Gowen Field Campus. At these locations, students view the broadcast on monitors and talk with the main-campus class through a phone line. In addition, cable television subscribers can access some of these courses in their own homes. For more information, call 208 426-1709.

Telecourses (Idaho Public Television) Each semester, Boise State students have the opportunity to earn university credits at home through a mix of televised lectures and textbook readings. These courses require some on-campus attendance.

Concurrent Enrollment Opportunities for High School Students

- Concurrent Enrollment (CE) is a collaborative partnership between high schools in the Treasure Valley and Boise State to provide college courses at the high schools. Academically motivated students simultaneously earn high school and college credit. The classes are taught by high school teachers who meet adjunct faculty status. The courses offered are academic classes which can be applied towards any degree the student chooses. The credits earned are transferable to other universities and colleges in Idaho and most other institutions in the nation. Through CE students will be able to begin the transition into college. Students are given additional benefits in the form of a student ID card, access to Albertson Library for research, and an e-mail account. The courses are offered at a reduced fee of $65 per credit. For a complete list of partner high schools and courses offered go to: www.boisestate.edu/concurrent_enrollment or call 208 426-2281.
- For information about high school students taking classes on the university campus contact Undergraduate Admissions Office at 208 426-1479. Students pay full fees per credit.

Correspondence Study

In the Boise area, the Division of Extended Studies is the point of contact for the statewide correspondence study program. The correspondence study program is administered by the statewide Correspondence Study Office, located at the University of Idaho. Program materials are distributed through Extended Studies. Courses are developed and graded by approved faculty at Boise State University, Lewis-Clark State College, Idaho State University, and the University of Idaho. Tests are proctored at Boise State by the Assessment Center; call 208 426-2762. See also Chapter 11—Obtaining a Degree at Boise State University, "Extension and Correspondence Courses." For more information, call 208 426-3293.

Study Tours

Extended Studies provides educational travel opportunities for students and the community in their Study Tour program. Travel is scheduled between semesters, spring break and summers and is offered for credit or non-credit. The Study Tour program offers travel to locations in the U.S. as well as abroad. These faculty-led programs are open to current students as well as the general public and are usually one to two weeks in duration. Recent study tours have gone to London, Paris, Prague, Vienna, Italy, Mexico City, New York, Greece, Scotland, China and Spain. For more information, call 208 426-3293.

Professional Education Program for Public School Teachers and School District Employees

Working closely with local school districts, the Idaho State Department of Education, campus Academic Departments and the Boise State College of Education, the Professional Education program enables teachers, paraprofessionals, and professional employees of school districts to earn credit required for certification/re-certification. The program offers courses for both academic credit and non-credit. For more information, call 208 426-1709.

Certificate Programs

The Division of Extended Studies offers certificates of completion in several noncredit programs. For more information, call 208 426-3861.

Graduate Preparation Courses

Assisting students to prepare for graduate admission exams is the focus of short courses on the Graduate Record Exam (GRE) and the Graduate Management Admissions Test (GMAT) offered by the Division of Extended Studies. For more information, call 208 426-3861.

Corporate Relations Program

Established in response to the needs of local corporations, the Corporate Relations Program provides a variety of services for local corporations, including educational programming, on-site registration, and on-site courses. For more information, call 208 426-3861.

Continuing Education Units (CEUs)

A Continuing Education Unit (CEU) is a nationally standardized unit documenting participation in noncredit programs, courses, or workshops. The Division of Extended Studies approves and transcribes CEUs, which can be provided to employers as verification that you have completed a course in which CEUs were granted. CEUs cannot be converted to academic credit. For more information, call 208 426-3861.

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. Membership is open to adults who enjoy the challenge of learning without the stress of tests and grades. No prerequisite 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 the OLLI web site at: http://www.boisestate.edu/osher/

Center for Professional Development

The Center serves the professional development needs of the Treasure Valley by providing, with the academic colleges at Boise State, high quality work-related education for professionals and managers in public and private sector enterprises. For more information, call 208 426-3861.

Questions About Boise State?

- 1-208-426-1000
- 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 the following matters:

- your rights and responsibilities as a student
- academic honesty
- student records
- student classification
- right of appeal

Additional information on these policies is available in the *Boise State University Student Handbook* and the *Boise State University Policy Manual*. The *Boise State University Student Handbook* may be obtained online at http://www.boisestate.edu/stuaff/handbook/StudentHandbook.doc, while the *Boise State University Policy Manual* is available online at http://policy.boisestate.edu/.

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. In the *Boise State University Student Handbook* you will find information on:

- academic regulations
- civic and cultural events
- health insurance
- parking
- services for students
- student organizations
- university committees
- university policies and procedures governing sanctions, judicial procedures, and hearing boards

Each student is expected to be familiar with the information in the *Boise State University Student Handbook*. You can obtain a copy online at http://www.boisestate.edu/stuaff/handbook/StudentHandbook.doc.

Academic Honesty

The university's goal is to foster an intellectual atmosphere that produces educated, literate people. Because cheating and plagiarism are at odds with that goal, they shall not be tolerated in any form. Students are expected to adhere to the rules and regulations as set forth in the 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 passes in 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 of 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*
- *Student Code of Conduct (*www.boisestate.edu/osrr/)

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, the Admissions Office 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). Your file is likely to contain such items as your application for admission and any correspondence related to that application. 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 on-line through BroncoWeb at http://broncoweb.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.

Confidentiality and Privacy

Following the guidelines established by the Family Educational Rights and Privacy Act of 1974 (**FERPA**), the university strives to protect your personal privacy and the confidentiality of your official student record. This section generally describes Boise State University's policy on confidentiality and privacy, as defined by the *Boise State University Policy Manual*, (http://policy.boisestate.edu/).

Most of the information in your student record is considered confidential, with the following exceptions:

- 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 University
- your student classification (freshman, sophomore, junior, senior, or graduate)
- your enrollment status (for example, whether you are a full-time student or a part-time student)
- the type of any degree you have earned from Boise State University and the date on which you received it
- the Dean's list and other honors

The information listed above is considered public information; however, the university does not sell lists of students or name-and-address labels to businesses or agencies outside the university. If you wish to limit access to this information, notify the Registrar's Office that you want the information treated as confidential. You can do so by logging onto BroncoWeb and setting your FERPA/Directory Restriction preferences.

In performing their official duties, Boise State University 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 University faculty and staff must first secure your written permission to do so.

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" above). 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's Services Office, Administration Building, Room 111, to determine your enrollment status.

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 at BroncoWeb.boisestate.edu, or by sending in a change-of-address card from the post office to the BroncoWeb Help Center, Administration Building, Room 110. Currently enrolled students must update address information on BroncoWeb (http://broncoweb.boisestate.edu/).

Name Changes

You should promptly report a name change. You may do so by completing a *Student Information Update* form and return the form to the BroncoWeb Help Center, 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 also a student employee of the university, you must report your name change to the Department of Human Resource Services, Administration Building, Room 218 (documentation requirements may differ).

Student Classification

The University classifies each student according to the definitions provided in Table 2.2, below.

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 associate 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.

Declaring a Major

All students are required to declare a major field of study. If you are a currently enrolled 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 through your BroncoWeb student account (http://broncoweb.boisestate.edu/). For more information, contact the BroncoWeb Help Center 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 are 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, that appeal will most likely be reviewed by the dean of the college responsible for your major or the Academic Appeals Committee. Appeals for current semester complete withdrawals should be directed to the Registrar's Office. For more information about appeals and grievances, see the *Boise State University Student Handbook* and the *Boise State University Policy Manual*. Contact the Registrar's Office, Administration Building, Room 110, 208 426-4249.

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

The Admissions Office consists of the New Student Information Center, located at the northeast entrance to the Student Union, and the Admissions Office, located in Room 101 of the Administration Building (http://admissions.boisestate.edu). The New Student Information Center furnishes application forms and information about Boise State and arranges for admissions counseling and campus visits. The Admissions Office evaluates your application materials to verify that you meet university admission standards. In addition, the Admissions Office coordinates international student admissions and other programs for entering students.

The following sections define the deadlines for applying for admission, the process by which the Admissions Office determines your admission status, and the standards that you must meet to be admitted to Boise State. Also included are instructions for applying for admission (Table 3.2).

NOTE: If you are planning to pursue graduate studies, you apply for admission through Graduate Admissions. For more information, see the *Boise State Graduate Catalog* or contact the Graduate Admissions Office, Math/Geosciences Building, Room 141, 208 426-3903.

Application Deadlines

To encourage prospective students to begin planning early, Boise State University has established firm deadlines for applying for admission. Deadlines for all applicants seeking admission as degree-seeking students are as follows (Applied Technology Program applicants are exempt from the deadline):

- Fall Semester 2008: June 30, 2008
- Spring Semester 2009: December 5, 2008
- Summer Sessions: One week before classroom instruction begins

These deadlines for fall and spring semesters are strictly enforced. Therefore, you must ensure that the Admissions Office receives all of your application materials before the deadline. If you fail to do so, you may still be admitted to the university; however, you will be admitted as a *nondegree-seeking student*. As a nondegree-seeking student you can register for any combination of courses totaling 7 or fewer credits, or a maximum of 2 courses, even if these courses total more than 7 credits. Nondegree-seeking students are not eligible to receive federal financial aid.

You may submit application materials at any time before the deadline; in fact, we encourage you to apply as early as possible. The earlier you apply, the more likely you are to be considered for admission, to secure an early registration time and a seat in the courses you want to take.

Admission Standards

To encourage students to be adequately prepared for college-level study, Boise State has implemented the following admission standards.

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 *general admission* based on your combined 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 have completed all courses in the Idaho College Admission Core (Table 3.1) with at least a 2.0 average. 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 *general admission* if you had at least a 2.0 cumulative high school GPA. In addition, you must have completed all courses in the Idaho College Admission Core (Table 3.1) with at least a 2.0 average. If you did not complete all core classes, you will be considered for *provisional admission*.

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

Completed GED Certificate

If you completed the GED and are under 21, you will be considered for *provisional admission* if you meet the minimum standard score on the GED (see below) and have a minimum ACT composite score of 17 or a minimum SAT combined score of 830.

If you completed the GED in 1989 or later and are 21 or older, you will be considered for *provisional admission* if you meet the minimum standard score on the GED (see below).

If you completed the GED prior to 1989 and your standard score average is at least 50, you will be considered for *general admission*.

Minimum standard score requirements:

- 50 if GED completed prior to January 1, 2002.
- 500 if GED completed after January 1, 2002.

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 *provisional admission* with an ACT composite score of at least 17 (or SAT combined score of at least 830) and the following minimum scores on the COMPASS exam (46 on Algebra, 68 on Writing and 85 on Reading). ACT or SAT scores are not required if you are 21 or older.

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, Philosophy, Psychology, Sociology	None
Mathematics	6	Applied Math I, Applied Math II Algebra 1, Algebra II, Geometry, Analytic Geometry, Calculus Statistics, Trigonometry	At least 4 semesters taken in grades 10 through 12
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, Foreign Language, and related study of two or more of the traditional humanities disciplines	None
Other College Preparation	3	Speech, Studio/Performing Arts (Art, Dance, Drama, Music), additional Foreign Language	Up to 2 semesters of approved vocational courses may apply; consult your high school counselor.

NOTE: Students who have not completed the Idaho College Admissions 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 the Admissions Office all materials indicated in the appropriate list below. For degree-seeking students, all admission materials must be received in the Admissions Office by the posted deadline (see "Application Deadlines," on page 20).

New Freshmen in Academic Programs

- *Application for Undergraduate Admission* with one-time, nonrefundable *$40 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 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 Academic Programs

- A*pplication for Undergraduate Admission* with one-time, nonrefundable *$40 application fee*.
- *Official transcript** from each 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 Academic Programs

As of 2005, you will maintain "active" status for up to two years after the last semester of enrollment in classes. Check your BroncoWeb account at http://broncoweb.boisestate.edu before submitting a new application. If you attended in the past and later attended another college or if your previous admission was based on in-progress transcripts, you need to apply.

Submit the following:

- *Application for Undergraduate Admission.*

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

- *One-time, nonrefundable $40 application fee*.
- *Official transcripts** from all other colleges 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 Academic Programs

- *Application for Undergraduate Admission* with one-time, nonrefundable *$40 application fee*.
- *Official transcripts** from the college or university granting the baccalaureate degree.

Nondegree-seeking Applicants

- *Application for Undergraduate Admission* or *Nondegree-seeking Application*.
- *One-time, nonrefundable $30 application fee*.

Applicants in Larry G. Selland College of Applied Technology Programs

If you are applying for a post-secondary technical certificate, technical certificate, advanced technical certificate, or associate of applied science program, complete items listed below. At any time, contact the College Enrollment Management and Student Success offices, (Boise) 208 426-1431 or (Nampa) 208 562-2100, for information and/or an advisement appointment: Online at http://selland.boisestate.edu

- Submit an *Application for Undergraduate Admission* with your one-time, nonrefundable *$30 application fee*.
- A one-time $50 nonrefundable enrollment processing fee will be assessed.
- Submit official high school transcript, or GED certificate and/or all college transcripts, if applicable.
- Submit Basic Skills Assessment (BSA) results: COMPASS, ACT, SAT or equivalent. If necessary to take a BSA, contact the College Assessment Centers (Boise) 208 426-3681 or (Nampa) 208 562-2009 to obtain current assessment schedule and fee schedule.

Applicants in Graduate Programs

If you wish to pursue graduate studies, apply through the Boise State Graduate Admissions Office, http://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 also avaiable International Student Admissions at http://admissions.boisestate.edu/internatational

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

***Test 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. Some applicants in this range may be required to participate in the Bridge Program. Upon completion of specific summer classes, you are eligible to continue into fall semester. Unlikely Candidates will most likely not be admitted as degree-seeking, academic students. Students in this range are encouraged to apply to programs in Boise State's Selland College of Applied Technology or 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	1580																					
34	1520																					
33	1470																					
32	1420																					
31	1380																					
30	1340				Excellent Candidate for Admission																	
29	1300																					
28	1260																					
27	1220																					
26	1180																					
25	1140																					
24	1110																					
23	1070																					
22	1030																					
21	990																					
20	950									Possible Candidate for Admission												
19	910																					
18	870																					
17	830															Unlikely Candidate for Admission						
16	780																					
15	740																					

Notes: *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 the Boise State Admissions Office for specific information.*

Standards for Transfer Students If you have earned fewer than 14 transferable credits, you will be considered for admission on the basis of your high school transcript or GED and your college transcript. If you are under 21, your ACT or SAT scores will be considered as well.

If you have earned 14 or more transferable credits, you will be considered for admission on the basis of your college transcript. You will be admitted with *general admission* status if you were in good academic standing at the last institution you attended and have a cumulative GPA (grade-point average) of at least 2.0 (based on transferable credits from all colleges and universities). If you have a GPA of less than 2.0, you will be considered for admission on *probation*. However, if you were dismissed from your last college or university during the most recent semester, you will be required to remain out of Boise State classes for at least one semester (fall or spring).

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 credits, you will be considered for admission based on your academic record at Boise State and at any colleges or universities you have attended since. To be admitted with *general admission* status, you must have left Boise State in good academic standing and must have earned at least a 2.0 cumulative grade-point average for your work at the colleges or universities you have attended since leaving Boise State. If you were on academic probation when you left Boise State, you will be considered for admission with *probation*. However, if you were dismissed from Boise State during the most recent semester, you will be required to remain out of classes for at least one semester (fall or spring). If you were dismissed twice, you must remain out for at least one year.

Standards for Second Baccalaureate Degree Students If you already have a baccalaureate degree and will take undergraduate courses, either as a nondegree or degree-seeking student, you apply through the Undergraduate Admissions Office. If applying for degree-seeking status, a 2.0 grade-point average is required for *general admission*. Once admitted, you are advised to meet with the department chair of your major to determine your course requirements.

If you already have a baccalaureate degree and will take graduate courses and your intent is to ultimately pursue a graduate degree, either as a nondegree or degree-seeking student, you apply through the Graduate Admissions 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 or a GED. As a nondegree-seeking student during fall and spring semesters, you can register for any combination of courses totaling 7 or fewer credits, or a maximum of 2 courses, even if these courses total more than 7 credits. Any credits that you earn as a nondegree-seeking student are applicable toward earning a degree. Please be aware that students taking 7 or fewer credits per semester pay part-time fees; those taking 8 or more credits pay full Boise State fees and, if deemed nonresidents of Idaho, nonresident tuition. Also, nondegree-seeking students are not eligible to receive federal financial aid. Students who were dismissed from any college or university within the last semester are ineligible for nondegee-seeking status.

Standards for Larry G. Selland College of Applied Technology Students

If you intend to pursue the Bachelor of Applied Science degree, the Boise State University academic admission standards will be used to evaluate your application. If you intend to pursue a post-secondary technical certificate, technical certificate, advanced technical certificate or associate of applied science degree program in the Selland College of Applied Technology, you will be assigned one of three types of admission statuses. The amount of space available in a program may also affect admission; even qualified applicants must sometimes be denied admission to programs with limited space for new students for the semester they desire.

Applied Technology General Admission Status may be granted to students who meet the following minimum standards:

If you graduated from high school or received a GED prior to 1997, you must verify graduation from an accredited high school with a minimum 2.0 GPA or earn a 45 or better standard score average on the GED or verify 14 or more transferable academic college credits, **AND** take a Basic Skills Assessment (BSA): COMPASS, ACT, SAT or equivalent. The BSA will be utilized for appropriate program placement.

If you graduated from high school in 1997 or later, you must verify graduation from an accredited high school with a minimum 2.0 GPA and complete the Idaho Vocational-Technical Admission Core (Table 3.4) or earn a 45 or better standard score average on the GED or verify 14 or more transferable academic college credits, **AND** take a Basic Skills Assessment (BSA): COMPASS, ACT, SAT or equivalent. The BSA will be utilized for appropriate program placement.

Applied Technology Provisional Admission status may be granted to students who do not meet the requirements for general admission (see above). You have been accepted for admission, but with provisions.

Students must verify graduation from an accredited high school or earn a 45 or better standard score average on the GED; **AND** take a Basic Skills Assessment (BSA): COMPASS, ACT, SAT or equivalent. The BSA will be utilized for appropriate program placement. You may be required to sign a *Provisional Admission Agreement* arranged through the Selland College Enrollment Management and Student Success Office.

Students granted Applied Technology Provisional Admission status can receive Applied Technology General Admission status upon completion of program admission standards or fourteen (14) semester credits of required program course work with a minimum of 2.0 GPA.

Applied Technology Conditional Admission status may be granted to students as described below. You have been accepted for admission, but with conditions.

If you are 16 or older and have not graduated from high school or earned a GED but meet the Basic Skills Assessment (BSA): COMPASS scores for program placement which demonstrates they have the ability to benefit **AND** provide a completed Career Plan form and required documentation acceptable to the College. (Applied Technology Conditional Admission status may not be available in programs having prescriptive state and federal certification or licensing policies.)

Table 3.4
Idaho Applied Technology Admission Core

High School Course	Required Semesters
English	8 semesters
Mathematics (Algebra Applied Math and above)	4 semesters (6 recommended)
Natural Science	4 semesters (Including at least 2 in laboratory science)

Jumpstart for High School Students

Academic Classes If you would like to attend high school and college courses simultaneously, you may be eligible for Jumpstart at Boise State University. Options include taking Boise State courses at your high school campus or taking courses at one of Boise State's campuses. To take courses on your high school campus, consult your high school counselor. To take courses on the Boise State campus, complete the *Jumpstart at Boise State 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 half of your high school graduation requirements. You must also have a cumulative high school GPA of at least 3.0. For more information, call 208 426-1156.

Applied Technology Classes To participate in high school and Applied Technology college courses simultaneously through Tech Prep opportunities, you must be 16 or have completed half of your high school graduation requirements. You must also have a cumulative high school GPA of at least 2.0. For more information, call 208 426-4029.

Admission of International Students

Standards for Freshman Admission You will be considered for admission on the basis of your secondary school transcript or marksheets and the results of the Test of English as a Foreign Language (TOEFL) or International English Language Testing System (IELTS). Your secondary school grades must convert to a minimum U.S. GPA (grade-point average) of 2.0, along with completing the pre-university requirements of your home country. 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 achieve a minimum score of 500 on the paper-based TOEFL, 173 on the computer-based TOEFL, or 61 on the Internet-based TOEFL. The IELTS test requires a minimum score of 5.0.

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 the results of the TOEFL or IELTS. Your transcripts or marksheets must convert to a minimum U.S. GPA of 2.0. If the 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 transcripts or marksheets from each college or university you have attended, along with a syllabus or course description in English (for any courses taken outside the U.S.), in order to receive transfer credit.

Transcripts submitted for transfer credit from schools located outside the U.S. will be evaluated by a World Education Services (WES), recognized nonprofit organization; they prepare evaluation reports that identify the U.S. equivalent of education completed in other countries. Evaluation of foreign credits is an automatic process that occurs once you have been admitted as degree-seeking and have enrolled and paid for classes at Boise State. If you have completed the equivalent to a U.S. bachelor's degree, your transcripts will not be evaluated.

Transfer students must achieve a minimum score of 500 on the paper-based TOEFL, 173 on the computer-based TOEFL, 61 on the Internet-based TOEFL or 5.0 on the IELTS. However, if you have completed English composition at a U.S. college or university and received a grade of C or better, you may request to have the TOEFL requirement waived.

Along with the academic records and official TOEFL or IELTS scores noted above, all international students must submit the following:

- International Student Application for Admission
- Nonrefundable application fee of $40
- Verification of financial resources to cover one full year of expenses

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

Fall Semester 2008: June 1, 2008

Spring Semester 2009: October 15, 2008

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

If you meet all admission requirements, the International Student Admissions Coordinator will issue an I-20 form, which you need to obtain an F-1 student visa. For more information, please contact the International Student Admissions Office, Administration Building, Room 101, 208 426-1757.

Health Insurance Coverage Full-time international students 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 have this requirement waived by providing evidence that your own policy is equivalent to Boise State's. This evidence must be submitted within the first 10 working days of the semester.

Your Admission Status

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

General 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 course work. Those 14 credits must include one English composition course and one class from each of the three areas that make up the General Education Core (arts/humanities, social sciences, and natural sciences/mathematics). You must earn a grade of C- or better in the composition course and in each of the core courses. (For more information about core courses, see Chapter 11—Obtaining a Degree at Boise State University.)

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 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.
- You were originally denied admission to the university, but were then admitted by the Special Admissions Committee after requesting that the committee review your unique circumstances.

Conditional Status You have been accepted for admission, but have been granted this status because the transcript you submitted was incomplete. Once the Admissions Office 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 grade transcripts or test scores. This is a temporary status given only to students who are admitted with unofficial transcripts around the application deadline and allows students to attend class. Once the Admissions Office 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.

Probationary Status You must attain at least a 2.0 grade-point average in your first semester at Boise State. If you fail to do so, you will be dismissed from the university and will be ineligible to attend Boise State for at least one semester. If you are dismissed from the university a second time, you will be ineligible to attend for at least one year.

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

- You transferred to Boise State with less than a 2.0 grade-point average for your previous college-level study.
- You attended Boise State and left the university on academic probation. Even if you have successfully completed courses at another institution since leaving Boise State, you will reenter on probationary status.

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 appeal this decision.

Nondegree-seeking Status Designed for students applying solely to take courses of interest, nondegree-seeking status allows you to enroll in up to seven credits or two classes per semester. These credits are applicable toward a degree if you are later admitted as a degree-seeking student. However, nondegree-seeking students register for classes after degree-seeking students and are ineligible for federal financial aid.

Bridge Program

This program is designed specifically for undergraduate academic students who would otherwise not be admitted to Boise State. The Admissions Office selects participants from applicants placing in the *Possible Candidate for Admission* range on the Admission Index. Participation in this selective program enhances the likelihood of student success.

You will engage in a rigorous full-time, eight-week summer program that includes English, communication, and freshmen seminar classes. The program continues into the fall semester with your enrollment in a math class (to be determined with your academic advisor). Class sizes are small and you will become well acquainted with each other. You will also be assigned mentors to provide assistance both in and out of the classroom. Upon successful completion of the classes, you will have earned college credits toward your degree and the right to continue into the spring semester.

You are encouraged to apply for admission before February 15, 2009 for Bridge Program consideration. Space in the program is limited and lead-time is needed to facilitate course registration and financial aid processing. For more information, contact Academic Support, 208 426-4049.

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. One of those steps will be to declare your intent to enroll through your BroncoWeb account. Once your intent is confirmed, you will be able to sign-up for a New Student Orientation program via your BroncoWeb account. 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.

Retention of Admission Records

The Admissions Office 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 a college transcript.

Petitions

If you do not meet the admission standards for general or provisional admission, you are encouraged to apply to Boise State as a nondegree-seeking student, explore admission to applied technology programs, or attend a community college. If you believe unusual or extraordinary circumstances prevented you from meeting the standards or the application deadline, you may petition for special consideration. To file a petition, contact the Director of Admissions Office, Administration Building, Room 107, 208 426-1177.

Questions About These Policies?

If you have questions about these policies, contact the Admissions Office, Administration Building, Room 101, 208 426-1156 or 800 824-7017 or by e-mail: 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 two distinct phases: priority registration and open registration. Each offers students the opportunity to select courses before classroom instruction begins. General descriptions of both priority and open registration are provided below; specific procedures for registration are defined in the *Boise State University Schedule of Classes*.

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 grids, as you will be held accountable for meeting these deadlines.

Academic and Fee Policy

Once you register for classes, you remain registered and are held responsible for the fees and grades assessed for these classes unless you cancel your registration. If you do not pay for or do not attend these classes you are still held responsible for the fees and grades assessed. If you decide not to attend any classes, you must drop all of them (including classes and workshops that begin later in the semester) through BroncoWeb no later than the 10th day of classes (see the Academic Calendar for other session deadlines).

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.

Priority Registration

New, Readmitted, and Transfer Students If you are a readmitted student or a new degree-seeking student, you are able to register for a New Student Orientation program once you have completed your intent to enroll on your BroncoWeb account. New Student Orientation programs are held throughout the year; reservations, via BroncoWeb, are required for all programs and space is limited. 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://orientation.boisestate.edu/ for more information.

Continuing Students If you are a continuing, degree-seeking student, you may register during priority registration, which is held in April (for the upcoming fall semester) and held again in October (for the upcoming spring semester). Summer semester is open registration—see below for details. For exact dates, consult the Academic Calendar in the front of this catalog. During priority registration, students register by appointment, on BroncoWeb (http://broncoweb.boisestate.edu/), according to a schedule established by the Registrar's Office. Once appointments have been assigned, the Registrar's Office will notify you, via BroncoMail, to check your appointment time on BroncoWeb. Nondegree-seeking student registration follows continuing student priority registration.

Open Registration

Open registration for the fall and spring semesters begins after the fee-payment deadline for preregistered students and runs through the 10th day of the semester. Open summer registration begins in February. (See the Academic Calendar for specific dates.)

Credit/Audit Status

During registration, if space in the class is available, you may register for a course under audit status with the understanding that you will receive neither credit nor a grade (of 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. 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 BroncoWeb Help Center at 208 426-4980.

Adding Classes

Before the semester begins, you may add classes to your schedule, on BroncoWeb (http://broncoweb.boisestate.edu/) if there is space available in the class. 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 you must obtain the instructor's approval to add the class. Instructors may refuse to grant permission if the class is full (see the Academic Calendar in the front of this catalog for the exact deadline). They may also refuse permission if your late entry would prevent you from benefitting fully from the class or would prevent other students in the class from doing so. (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.) For more information about adding classes, see the *Boise State University Schedule of Classes* or call the BroncoWeb Help Center at 208 426-4980.

Dropping Classes

You may drop regular session classes, on BroncoWeb (http://broncoweb.boisestate.edu/), from your schedule through the sixth week of the semester. (See the Academic Calendar in this catalog for the exact deadline.) If you drop a 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. Short courses, five week, and eight week block courses have different deadline dates. (See the Academic Calendar in this catalog for the exact deadline.) For more information about dropping classes, see the *Boise State University Schedule of Classes* or call the BroncoWeb Help Center at 208 426-4980.

Withdrawals

Boise State University limits the number of withdrawals (W's) a student may receive while enrolled at Boise State University. If you are pursuing an associate degree, advanced technical certificate, or technical certificate, you may receive up to five W's. If you are pursuing a baccalaureate degree, you may receive up to ten W's, including any received while in an associate degree, advanced technical certificate, or technical certificate program. (W's received before fall semester 1995 are not counted toward the total allowed.) Once you have exhausted the allowed number of W's, you may receive only an A+ through F in any succeeding course.

Exceptions Withdrawals from corequisite courses that must be taken together (primarily lecture/lab courses) will count as one course for permitted withdrawal purposes. Withdrawals received as a result of a complete withdrawal from the university will not count toward the allowed total.

NOTE: The University has placed limits on the number of times you may enroll in a course. For more information, see Chapter 5—Grades.

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 have you reinstated in the class.

Faculty-Initiated Withdrawals

An instructor can withdraw 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.

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 Withdrawal* 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 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.

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

Complete Withdrawal from Boise State University

If you wish to leave the University in **GOOD STANDING** (drop all courses) you must drop all your classes on BroncoWeb **(**http://broncoweb.boisestate.edu/). If the complete withdrawal 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 $25.00 administrative processing fee. See the Academic Calendar in the front of this catalog for specific deadlines for the various sessions.

Applied Technology students must clear with the College of Applied Technology Enrollment Management and Student Success Office, Technical Building, Room 111. Extended Studies students can initiate a complete withdrawal via BroncoWeb or in the Extended Studies Building, 1015 Grant.

If you are physically unable to drop your classes via BroncoWeb because of hardship or health reasons should telephone or write to the **Registrar's Office** and request an *Authorization for Complete Withdrawal*. The authorization must be completed, legally signed, and returned by the you **within two weeks of the request and by the end of the sixth week of the semester** before the your records can be officially closed for that semester. See Chapter 6—Tuition and Fees, for more information about the refund policy.

If you do not cancel your registration, completely withdraw prior to the end of the sixth week of the semester, or you fail to complete the course requirements by deadlines discussed previously, 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. See the Registrar's Office, Administration Building, Room 110, or call 208 426-4249 for more information. For information on refunds of tuition and fees following a complete withdrawal, see Chapter 6—Tuition and Fees.

Important Information Concerning Withdrawals for Students Receiving Financial Aid If you withdraw from the University you need to be aware of a federal law impacting your financial aid eligibility. Complete withdrawals will result in a financial obligation by you to return the unearned portion of any federal aid disbursed. You will have earned aid if you withdraw prior to completing 60 percent of the semester. You will have to repay Boise State for the unearned aid which had applied toward tuition and fee charges. A repayment may also be required for unearned aid disbursed directly to you. If you are considering withdrawing from Boise State, we strongly recommend that you review the information on the web at: http://financialaid.boisestate.edu/cwd.htm. After reviewing that information, if you still have questions, contact the Financial Aid Office.

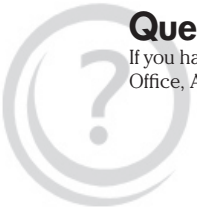
Administrative Withdrawal from Boise State University

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 themselves 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 the 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 the your transcript.



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

This chapter defines the grading system used at Boise State University. In addition, this chapter contains information on probation and dismissal, as well as instructions for calculating your grade-point average (GPA). Finally, the chapter defines the university's policy on attendance and the policies governing final examinations.

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 below, 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 average (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 you have earned divided by the total number of GPA units you have attempted, as shown in Figure 5.1.

$$\frac{\text{Total Quality Points Earned}}{\text{GPA Units Attempted}} = \text{GPA}$$

Figure 5.1. Formula for Calculating Grade Point Average (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 three possible careers—undergraduate, graduate, or applied technology.

In calculating *semester GPA*, the formula uses only the quality points earned and GPA units attempted that semester. For *Boise State University GPA*, the formula uses only quality points earned and GPA units 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 BroncoWeb. The contract time 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 Appeals Committee. **You may not remove the incomplete from your transcript by re-enrolling in the class during another semester.** A grade of incomplete is excluded from GPA calculations until you receive a final grade in the course.

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 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.

Repeating a Course

If you wish to improve your grade in a course to meet core or degree requirements, you may register to repeat a course. You may register only three times for any Boise State University course. Courses dropped within the first ten days of the semester are excluded from the three registration maximum. Also excluded from this policy are courses that can be taken multiple times for additional credit, such as kinesiology (fitness) activity courses, private music

lessons, and art studio classes. Prior Learning credits cannot be used to repeat a class already completed. If you do repeat a course, you may count toward your degree only the number of credits you would have received if you had taken the course only once. 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 consecutive credits at Boise State University with a GPA of 2.50 or higher, or 24 consecutive 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 attain 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 in the meantime you have attended another institution. While on probation, you may be ineligible to receive financial aid and you may be ineligible 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 year after any subsequent dismissal. If you wish to appeal this waiting period, you must file an appeal with the University Appeals Committee. The *Academic Appeals* form is available from the Registrar's Office, http://registrar.boisestate.edu/Forms.htm.

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, as well, that you may be automatically withdrawn from a course if you fail to attend one of the first two meetings of a class that meets more than once each week, or if you fail to attend the first meeting of a class that meets once each week, see Chapter 4—Registration Policies and Procedures, in "Faculty-Initiated Withdrawals."

Students should not expect that an instructor will withdraw them for nonattendance. The primary responsibility for course withdrawal rests with the student.

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

Final Examinations

Each semester, a schedule for final examinations is published in the *Boise State University Schedule of Classes*. 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 information on 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 BroncoWeb to find out deadlines for paying tuition, fees, and other changes. **Boise State does not mail out paper statements.** Login to http://broncoweb.boisestate.edu/. Once you are in, select: For Students, Financial Services, and View Your Account. Please contact the Payment and Disbursement Office, Administration Building, Room 211 or call 208 426-1212 for specific fee information. Other financial information is available on the Student Financials website at http://finad.boisestate.edu/sfs.htm.

Deferred Payment of Tuition, Fees, and Other Charges

If you are unable to pay tuition and fees before the deadline established by the current Academic Calendar, you may be able to defer payment of some of your tuition and fees. 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 **IPAY**, complete and submit the online IPAY application, including a credit card payment for 1/3 of the unpaid balance, by the fee payment deadline. You may also print the IPAY application and return it, with your payment, to the Payment and Disbursement Office by the fee deadline. A $30.00 nonrefundable application fee will be charged to use the plan. The remaining balance (including application fee) is to be paid in equal installments on or before September 25th and October 25th for the fall semester and on or before February 25th and March 25th for the spring semester. You may make payments on your BroncoWeb account **(http://broncoweb.boisestate.edu/)**.

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 IPAY 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 $25.00 complete withdrawal fee.

For more information or to enroll in the IPAY program, visit the Payment and Disbursement Center, Administration Building, Room 211, or telephone 208 426-1212.

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 costs.

How Boise State University Calculates Your Tuition and Fees

Your actual cost to attent 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 ($40.00) for processing your application. All degree seeking and readmitted students are also required to pay a New Student Curriculum fee ($150.00). To calculate your other tuition and other fees, Boise State University uses a milestone of eight credits per semester. Once you register for 8 or more credits, you are required to pay the full tuition and fees shown in Table 6.1, below.

Table 6.1
Full Tuition and Fees, Per Semester, as of Fall, 2008
(8 credits or more)

Tuition and Fees	Resident	Nonresident
Tuition	$0	$4,084.00
Institutional Fees	$2,835.00*	$2,835.00
Total (for up to 19 credits)	$2,835.00*	$6,919.00
Overload Fee**	per cedit hour	per credit hour

*Includes insurance.
**An overload fee is imposed if you register for more than 19 credits. Each credit over 19 cost the per-credit cost in Table 6.2, below.

In determining whether you have reached the milestone of 8 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 8-credit milestone. Please note, also, that developmental courses (such as ENGL 90 Developmental Writing or MATH 25 Elementary Algebra) count as 3 credits each toward the 8-credit milestone, even though you earn no credits by taking the course.

Special Note: Paying full tuition and fees doesn't necessarily make you a full-time student. Instead, the University determines if you're a full-time student according to the policies defined in Chapter 2—General Policies.

NOTE: Fees for off-campus applied technology programs may vary from on-campus applied technology programs.

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.

Other Fees and Charges

If you enroll for fewer than eight credits, your fees are calculated by the credit hour, as shown in Table 6.2, below. Nonresident tuition is not charged if you are enrolled in 7 credits or less.

Table 6.2
Partial Fees, Per Semester, as of Fall, 2008
(less than 8 credits)

Type of Credit	Fall or Spring Semester	Summer Session
Undergraduate	$227.00 per credit hour	$222.00 per credit hour
Graduate	$272.00 per credit hour	$267.00 per credit hour

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 6.3, below.

Table 6.3 Fees for Private Music Lessons	
2 Credits	**4 Credits**
$150	$300

However, if you are a music major enrolled for 12 or more credits, these music fees may be waived. To be eligible to receive the waiver, however, you must be taking the class in order to satisfy a requirement for private performance study in a B.A. or B.M. degree program. You must also be concurrently enrolled, for credit, in a major ensemble and in a concert class. You must receive a grade of C or higher in the ensemble and a grade of P (for *Pass*) in the concert class. For more information about this policy, and to apply for the waiver, contact the music department.

Senior Citizen Rate If space in a course is available, 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). To register at the senior citizen rate, first apply for admission, then request the form *Idaho Senior Citizen's Fee Reduction* from the Payment and Disbursement Center, Administration Building, Room 211. Fill out the form according to the instructions. When you pay your registration charges, you will need to show 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 $25.00 administrative 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 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, special 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, or registration 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 211, 208 426-2134.

Student Health Insurance Plan (SHIP)

Policy: Idaho State Board of Education Policy III.P.16 requires full-fee paying students attending classes in Idaho to maintain adequate health insurance.

Students registered for 8 or more credits (and all international students) 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 their SHIP coverage each semester. Students participating in intercollegiate athletics must be enrolled in SHIP and will be added to Student Financial accounts for the semester and paid to the university through Payments and Disbursements, Room 211 in the Administration Building. Students enrolled in SHIP are eligible to purchase coverage for their spouse and/or for any dependent children under the age of 19 who reside with the student. Part time students are not eligible for SHIP enrollment. Information regarding alternative coverage for part time students is available in the SHIP office.

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 coverage each semester. Waivers must be filed for both the fall and spring semesters. Deadline for fall semester is September 8, 2008. Waiver deadline for spring is February 2, 2009.

Waiver Request: If your alternative health insurance plan meets the comparability requirements (see details at www.boisestate.edu/healthservices/insurance), please log onto BroncoWeb (http://broncoweb.boisestate.edu/) to submit your SHIP waiver request. The page you will see after logging in has a link specific to waiving SHIP coverage.

Inquire about enrollment or waivers at: ship@boisestate.edu, or call 208 426-2158 for assistance before the waiver deadline.

Idaho Residency Requirements

When you are first admitted to Boise State University, the university classifies you as either a resident student or a nonresident student, then uses this classification to determine your tuition and fees. This section briefly answers two of the most frequently asked questions about residency requirements. It is the student's responsibility to apply for residency status. Please refer to Table 6.4 for complete resident/nonresident classification information. For further information, please contact the Registrar's Office, Administration Building, Room 110, telephone 208 426-4249.

Q: When I first enter the university, what determines my residency status?

A: For the purpose of calculating tuition and fees, your status is determined by your responses to several questions on your application for admission. In general, students are considered residents of Idaho if they or their parents have resided in Idaho for 12 consecutive months before the first day of classroom instruction, and have in fact established a bona fide domicile in this state primarily for purposes other than educational.

Q: Can I appeal Boise State University's decision to classify me as a nonresident student?

A: Yes. To do so, obtain a *Residency Information Form* from the Registrar's Office, Administration Building, Room 110. Complete the form and submit it with a letter to the Residency Appeals Committee, according to the instructions provided, by the 15th day of class during the semester in which they are enrolled. Turn all paperwork into the Residency Coordinator, Registrar's Office, Administration Building, Room 110.

Questions About Tuition and Fees?

If you have questions about tuition and fees, contact the Account Maintenance Center, Administration Building, Room 211, 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 211, 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 Boise State University

The legal residence of a student for fee purposes is determined at the time of initial application for admission to BSU 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 are requesting consideration for reclassification based upon satisfying state law criteria must follow the procedure outlined below:

1. Contact the Residency Coordinator in the Registrar's Office, Room 110, Administration Building.
2. Complete the *Residence Information Form* 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 15 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 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.

Qualifying Criteria for Establishing Idaho Residency for Educational Purposes

1. Have one (1) or more parent or parents or court-appointed guardians who are domiciled in the state of Idaho. To qualify under this section, the parent, parents or guardian must have maintained a bona fide domicile in the state of Idaho for at least one (1) year prior to the opening day of the term for which the student matriculates.
2. **Receive less than fifty percent (50%), or none, of your support from a parent, parents or legal guardians and have continuously resided in the state of Idaho for twelve (12) months preceding the opening day of the term during which you propose to attend BSU *and have in fact established a bona fide domicile in this state primarily for purposes other than educational.*** The establishment of a new domicile in Idaho by a person formerly domiciled in another state has occurred if such person is physically present in Idaho primarily for purposes other than educational for 12 consecutive months and can show satisfactory proof that such person is without a present intention to return to such other state or to acquire a domicile at some other place outside of Idaho. The determination will be based on but not limited to consideration of the following factors:
   a. Registration and payment of Idaho taxes or fees on a motor vehicle, mobile home, travel trailer, other item of personal property for which state registration and the payment of a state tax or fees is required.
   b. Filing of Idaho state income tax returns.
   c. Permanent full-time employment or the hourly equivalent thereof in the state of Idaho.
   d. Registration to vote for state elected officials in Idaho at a general election.
   e. Purchase of a house or other real estate which is or will become your permanent residence.
   f. Obtain Idaho driver's license or state identification card.
   g. Establishment and duration of account records with state financial institutions.
   h. And other similar factors indicating intent to be domiciled in Idaho.
3. Graduate from an accredited secondary school in the state of Idaho and enter BSU the term immediately following such graduation regardless of the residency for the student's parent or guardian. The individual must be a citizen of the United States of America, have permanent resident status, or hold "refugee-parolee" or "conditional entrant" status with the United States Immigration and Naturalization Service to qualify under this criteria.
4. Be married to a person who is classified, or is eligible for classification, as a resident of the state of Idaho for the purposes of attending a college or university. Request for classification under this criteria will require that a copy of the marriage certificate be filed, and the qualifying spouse may be required to submit proof of residency in the form of an affidavit.
5. Be a member of the armed forces of the United States, stationed in the state of Idaho on military orders. A certified copy of the military orders may be requested in support of this qualification for residency classification.
6. Have a parent or guardian who is a member of the armed forces and stationed in the state of Idaho on military orders, or has Idaho as their "home of record," and receive fifty percent (50%) or more of support from the parent or legal guardian. The student, while in continuous attendance, shall not lose that residency when the student's parent or guardian is transferred on military orders. A certified copy of the military orders may be requested in support of this qualification for residency classification.
7. Be separated, under honorable conditions, from the United States armed forces after at least two (2) years of service and at the time of separation designate the state of Idaho as your intended domicile or have Idaho as the home of record in service and enter a college or university in the state of Idaho within one (1) year of the date of separation. A certified copy of the DD-214 separation papers may be requested in support of this qualification for residency classification.
8. Have been domiciled in the state of Idaho, have met the qualifications for residency and have been away from the state for a period of less than one (1) calendar year and have not established legal residence elsewhere provided a twelve (12) month period of continuous residency had been established immediately prior to departure.
9. Be a member of any of the following Idaho Native American Indian tribes, regardless of current domicile. Members of the following Idaho Native American Indian tribes, whose traditional and customary tribal boundaries included portions of the state of Idaho, or whose Indian tribe was granted reserved lands within the state of Idaho: (1) Coeur d'Alene tribe; (2) Shoshone-Paiute tribes; (3) Nez Perce tribe; (4) Shoshone-Bannock tribes; (5) Kootenai tribe.

Definitions:

Resident student: Any student who meets the criteria specified in items 1 - 9 above.

Nonresident student: Any student who does not qualify as a "resident student" under the provisions of items 1- 9 listed above and includes:

A. A student attending BSU with the aid of financial assistance provided by another state or governmental unit or agency thereof, such nonresidency continuing for one (1) year after the completion of the semester for which such assistance is last provided.

B. A person who is not a citizen of the United States of America, who does not have permanent resident status, or does not hold "refugee-parolee" or "conditional entrant" status with the United States Immigration and Naturalization Service.

Domicile: An individual's true, fixed and permanent home and place of habitation. It is the place where that individual intends to remain, and to which that individual expects to return when that individual leaves without intending to establish a new domicile elsewhere.

One (1) year: twelve (12) consecutive months immediately preceding the opening date of the term for which resident status is requested.

Armed Forces: the U.S. Army, Navy, Air Force, Marine Corps, and Coast Guard. Uniformed services such as the National Guard or other reserve force do not qualify for residency requirements.

Two (2) years of service: two (2) years of active duty service. Reserve duty status does not qualify for residency requirements.

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. As the catalog was being printed, the U.S. Congress was debating provisions that would impact the 2008-2009 aid year. 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 over the Web at http://financialaid.boisestate.edu/. General information is also available through the U.S. Department of Education's 2008-2009 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/aidhandbook.htm

- 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 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 in order to count towards eligibility for the Federal Pell, ACG, and National SMART grants.
- 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 non-citizen. Students attending Boise State on a student visa are not eligible for federal aid but may apply for scholarships or graduate assistantships.
- 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.
- Submit all materials requested by the Financial Aid Office as soon as possible, but no later than the specified deadlines. Examples of requested documents include copies of federal tax returns and W-2 forms, citizenship documents, or proof of untaxed income.
- 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 $400 to $4,731. Some Pell recipients also qualify for other types of grant aid, including a **Federal Supplemental Educational Opportunity Grant (SEOG)** or a **Leveraging Education Assistance Partnership Program (LEAP) Grant**. Students who meet the priority filing deadlines are among the first to be considered for these grants. (See "How to Apply for Financial Aid" on the following page).

In addition, some Pell-eligible students may qualify for the **Academic Competitiveness Grant (ACG)** or the **National SMART Grant**. The ACG is available to students who completed a rigorous high school curriculum, as defined by the U.S. Secretary of Education. The SMART Grant is only available to students who have completed between 60 and 120 credits and are enrolled in majors specified by the U.S. Secretary of Education. Both grant programs require a minimum GPA and enrollment in at least 12 credits during the semester, and the SMART Grant requires students to enroll in at least one class each semester that applies directly to the SMART-eligible major. These grants are awarded based on both credits completed as well as weeks attended, in accordance with federal guidelines. More information about these grants can be found at http://financialaid.boisestate.edu

Available to graduate and undergraduate students with exceptional financial need, **Federal Perkins Loans** are 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.

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	120	$ 42.43	$1,091.01	$ 5,091.01
$ 8,000.00	120	$ 84.85	$2,182.00	$10,182.00
$15,000.00	120	$159.10	$4,091.73	$19,091.73

William D. Ford Federal Direct Loans are 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 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. All Direct Loan recipients must complete a Master Promissory Note, which will be valid for borrowing during subsequent semesters. In addition, you must complete an exit interview when you graduate or withdraw from the University. 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 Direct Loans in various amounts. There are terms and conditions under which students receiving this assistance may obtain deferral of the repayment of the principal and interest of the loan for service under the Peace Corps Act (22 U.S.C.2501); service under the Domestic Volunteer Service Act of 1973 (42 U.S.C.4951); or comparable service as a volunteer for a tax-exempt organization of demonstrated effectiveness in the field of community service. Please see the exit counseling information link on the following web site for more information: http://financialaid.boisestate.edu/loancounseling.htm. The interest rate is set annually at a fixed rate but will not exceed 8.25%.

Table 7.2
Federal Direct Loan Estimated Repayment Schedule (based on 6.8% interest rate)

Loan Amount	Number of Payments	Monthly Payment	Total Interest	Total Repaid
$ 2,625.00	63	$ 50.00	$ 495.00	$ 3,120.00
$ 5,000.00	120	$ 57.54	$1,905.00	$ 6,905.00
$10,000.00	120	$115.08	$3,810.00	$13,810.00
$15,000.00	120	$172.52	$5,714.00	$20,714.00
$25,000.00	120	$287.70	$9,524.00	$34,524.00

Emergency Short-Term Loans are available to students with a minimum grade-point average of 2.00. 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 211 Administration Building.

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.

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.

The university scholarship deadline is February 15 for incoming freshmen and transfer students, and March 15 for continuing students. 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.

- **Brown Honors Scholarships** offer awards of full fees plus room and board worth up to $12,000, that is renewable for four consecutive years. Contact the Honors College for more information.
- **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. Capital Scholars attending the on-campus program are presented with a $1,000 scholarship renewable for up to five years as a full time student at Boise State University.
- **Department Scholarships** are available from each department. Departments set the criteria and the scholarship amounts. All students with a cumulative grade point average of at least a 3.0 will be considered. A list of departments requiring additional information is available at http://financialaid.boisestate.edu/scholarships.
- **Distinguished Scholar** High School students who are selected as National Merit Finalists during their senior year are eligible for the Distinguished Scholar Program. Each student may receive a full tuition scholarship, renewable for up to five years of full time study, and a stipend, renewable for up to 4 years, to assist with additional educational expenses. To receive the Distinguished Scholar award a student must notify Boise State University of their Finalist status and also claim Boise State University as their university of choice with the National Merit Program.
- **Presidential and Dean's Scholarships** are 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. Awarded for one year, these scholarships are given in recognition of outstanding academic achievement. To apply, complete the admissions application. Apply using the pre-filled "FAFSA on the Web" feature (also at www.fafsa.ed.gov). The pre-filled FAFSA is simply an application.
- **The President's Civic Leadership Scholarship** awards thirty renewable scholarships annually. These awards will be at two levels, with differing criteria and award amounts. There will be 12 recipients at the Blue Circle Level and 18 recipients at the Orange Circle Level. The President's Civic Leadership Scholarship Committee will select the recipients based on the listed criteria. Please visit the President's Civic Leadership website for the award packages and eligibility requirements. http://financialaid.boisestate.edu/scholarships/PresidentCivicLeadershipScholarship.htm.
- **Gem Scholarships** (in the amount of nonresident tuition) are available to new nonresident undergraduate and graduate students with strong academic records (3.0 or higher). Students must maintain a full credit load and a 3.0 GPA. Recipients of Gem Scholarships may qualify to have their awards renewed as long as they continue to make reasonable progress toward their current degree and meet the minimum GPA and credit completion requirements, checked at the end of each spring term. Simply submit all admissions materials by February 15 to be automatically considered. After February 15, or for spring semester admission, submit all admissions materials by the admission deadline for the semester you want to begin taking classes. Qualified individuals will be considered on a space-available basis. Final selection is competitive.
- **Western Undergraduate Exchange (WUE) Awards** reduce the cost of nonresident tuition for students with strong academic records (3.0 or higher) coming to Boise State from Alaska, Arizona, California, Colorado, Hawaii, Montana, Nevada, New Mexico, North Dakota, Oregon, South Dakota, Utah, Washington or Wyoming. Students must maintain a full credit load and a 2.0 GPA. Award recipients may qualify to have their awards renewed as long as they continue to make reasonable progress toward their current degree and meet the minimum GPA and credit completion requirements, checked at the end of each spring term. Simply submit all admissions materials by February 15 to be automatically considered. For spring semester admission, submit all admissions materials by the admission deadline for the semester you want to begin taking classes. Qualified individuals will be considered on a space-available basis. Final selection is competitive. More detailed information is available at http://financialaid.boisestate.edu/scholarships.
- **Robert R. Lee Idaho Promise Scholarship** This award is available to Idaho residents who have completed secondary school or its equivalent in Idaho, have a minimum 3.0 high school GPA or a minimum 20 ACT score, and meet other criteria. Students who meet initial eligibility requirements and maintain eligibility can receive this award for up to four semesters. An application is not required for this award.
- **Idaho Opportunity Scholarship** The Idaho State Board of Education manages the application and award process for a new scholarship for Idaho's neediest Pell Grant recipients. The award value can be as much as $3,000 per year for four years. If you are selected as a scholarship recipient, you must enroll in 12 or more credits during fall and spring semesters in order to receive the award and to remain eligible for renewal. More information is available at http://www.boardofed.idaho.gov/scholarships/opportunity.asp.
- **State of Idaho Scholarship Awards** are available to incoming first-year 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 the scholarships have a January 15 deadline.

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 scholarship programs. You may use one of the following methods to apply:
   - Apply using FAFSA on the web (www.fafsa.ed.gov). If you've applied other years, use your PIN number. If you can't remember your PIN number or don't have one, you will be able to get one once you get to that part of the FAFSA application. If you are a dependent student and need to provide parental information, your parent can also get a PIN at that point in the application process.
   - Apply using renewal FAFSA on the web (also at www.fafsa.ed.gov). The renewal application is simply a FAFSA that contains most of the information you provided last year, if you applied for aid the previous year. Updating the information may be faster for you than filling out a new FAFSA. You will need your PIN to complete the renewal FAFSA on the web.
   - Apply using the paper FAFSA. The paper FAFSA or a FAFSA form that you can print from the federal website (www.FederalStudentAid.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.

- 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 did not provide an e-mail address, then you will receive your SAR through the regular mail. Review your SAR and make any necessary corrections. Please note that marital status cannot be updated if it changes after filing the FAFSA.

2. **Submit additional materials, if requested.** The Financial Aid Office uses BroncoWeb 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 Form.
   - Tax Forms. Submit a signed copy of your federal income tax return. Submit a signed copy of your spouse's federal income tax return if you are married, but your spouse filed a separate return. If you are a dependent student, submit a copy of your parents' federal income tax return.
   - W-2 Forms. Submit a copy of all W-2 forms corresponding to the requested tax returns.
   - Loan documents. You may be required to complete an electronic master Promissory Note, or to complete loan entrance counseling requirements.
   - Award acceptance. Once processing of your application is complete, your award information will appear on BroncoWeb. You may accept and decline your awards on BroncoWeb.
3. **Be aware of the following deadlines:**

   February 15 Deadline for incoming freshmen and transfer students to submit application materials, the FASFA, and the supplemental scholarship application. Students who meet this deadline will be considered for scholarships, and 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 supplemental scholarship application. Students who submit the FAFSA by this date are given priority status, and are among the first to be considered for Perkins Loans, work-study, and certain grants with limited funding.

   June 1 All documents and other information requested by the Financial Aid Office must be submitted by this date in order to retain priority status.

   Students who miss these deadlines may still apply for federal aid. However, processing of applications may not be completed in time for aid to be disbursed prior to the fall fee payment deadline.
4. **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 http://financialaid.boisestate.edu/scholarships. Need-based scholarships require a student to submit the FAFSA by the deadlines described above.
5. **Applying for Summer Aid.** Most financial aid is awarded for use during the fall or spring semester. The University has limited financial aid available for the summer session, and not all students have remaining eligibility for summer. See http://financialaid.boisestate.edu and click on "Timely Tips" for details on applying for summer aid, deadlines, etc. Please note that your Free Application for Federal Student Aid should be submitted by April 1 for you to be considered for financial aid for summer sessions.
6. **BroncoWeb and BroncoMail.** 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 get financial aid updates, look at the "Timely Tips" at http://financialaid.boisestate.edu or click on the Financial Aid Recipients link on BroncoWeb. This will give you policy changes or other important information that might affect your financial aid.

How Financial Aid Is Distributed

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

Financial aid is first applied to your outstanding registration fees, any current University housing charges, or other standard University charges; any remaining balance is then distributed to you. During the fall and spring semesters, the remaining balance will be electronically deposited to your bank account, or a check will be mailed about one week before the start of classroom instruction. Electronic deposit of your financial aid balance checks to a checking or savings account continues throughout the semester.

Change in Enrollment

Any change in your enrollment status may affect your ability to maintain satisfactory academic progress (see "Satisfactory Academic Progress" below).

- **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. Also, please be aware that withdrawals will negatively impact your satisfactory academic progress performance (see below).
- **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. Students may be asked to provide proof of class attendance. For more information, including examples of calculations, go to http://financialaid.boisestate.edu/cwd.htm. If you have questions after reviewing that information, please contact the Financial Aid Office.

Unofficial Withdrawals

Students who unofficially withdraw from the University, or receive a failing grade for each course within a term, may be asked to verify attendance. Students who cannot demonstrate attendance will be required to repay all financial aid received for that term. Any loans received by those who do not attend any class must be immediately repaid to avoid a defaulted loan status.

Satisfactory Academic Progress Standards

Students applying for or receiving financial aid must make satisfactory academic progress at the University, as defined below:

- You must be enrolled in an approved degree or certificate program.
- Your BSU GPA must be maintained at a satisfactory level (that is, you cannot be on probation).
- You are allowed to attempt* no more than 150% of the credits required to complete a degree or certificate program.
- You must complete at least 75 percent of all credits attempted* at Boise State.

*For the purposes of this policy, credits attempted are defined as all classes for which a student receives a passing grade (D- or better, or P), or an F, I, W, N, CW, or IP, whereas credits completed are defined as all classes for which a student receives a passing grade.

- Developmental credits (MATH 25, ENGL 90, etc.) will be counted as credits attempted. They will also be counted as credits completed if a passing grade is received for the course.
- Repeated courses count as credits attempted during each semester the student is enrolled in the course. They will be counted once as credits completed the first time a passing grade is received for the course.
- Audit credits do NOT count either as credits attempted or completed. Audit credits do not count towards determining your financial aid eligibility.

The complete financial aid satisfactory academic progress policy is found on the web at http://financialaid.boisestate.edu/forms/sappolicy.pdf.

In addition to the above requirements, you must satisfactorily complete at least one credit during any term in which you receive federal/state aid.

Satisfactory Academic Progress Review

The University reviews most financial aid files annually (at the end of spring term). Students who are in programs of one year or less are reviewed more often. In addition, the term completion portion is reviewed at the end of summer and fall. If you are not making satisfactory academic progress or do not meet the term completion requirements (as defined in the policy on the web and briefly outlined above), 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. If your appeal is granted, the exemption from this policy will remain in effect for only a short time (usually no longer than one semester). Appeal forms may be downloaded from the web at http://financialaid.boisestate.edu/forms/sappolicy.pdf.

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 the International Programs Office, 1136 Euclid, 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 do not qualify for any type of aid program that is federally funded. 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 http://financialaid.boisestate.edu/scholarships/. A limited number of nonresident tuition waivers are available. New international students should contact the International Programs Office for information about these waivers; continuing students should contact the International Admissions Office, Room 101 Administration Building, 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 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—University Housing

University housing is available through the University Housing Office, which administers housing in seven residence halls located on campus and five apartment complexes located within walking distance from campus. This chapter describes the university housing available at Boise State University, provides cost information for the residence halls and university apartments, and describes the assistance Boise State University provides to students seeking off-campus housing.

Fair-Housing Policy

Boise State University is an equal-opportunity institution and offers its living accommodations and makes 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).

Rules and Regulations

Rules and regulations governing university housing are defined generally in this chapter and more specifically in the *Boise State University Student Handbook*, the *Residence Hall & Dining Agreement*, *Student Code of Conduct*, and the *University Housing Handbook*.

Residence Halls

Residence Life staff creates inclusive, safe, and caring communities where residents make deep connections with each other and the University. With numerous leadership and employment opportunities, you can find your home in University Housing.

Living in a vibrant and diverse community, you will make a variety of friendships while you learn more about different cultures and ideas. Live-in faculty and student staff will challenge you to learn about yourself and others.

Altogether, the seven on campus residence halls accommodate approximately 1,500 students. All residence halls have computer Internet access through direct Ethernet connection and are equipped with cable television jacks.

- **Chaffee Hall** is divided into three separate 3-story units; enclosed corridors connect the units to a common area containing a lounge. Each floor is air-conditioned, has a small informal lounge, study room, bathrooms, and laundry facilities. Typically, two students occupy each double room. The D wing of Chaffee Hall has double rooms with connecting semi-private bathrooms.
- **John B. Barnes Towers** consists of six coed residential floors. This air-conditioned residence hall is equipped with study lounges, laundry facilities, and a computer lab. Four students occupy each suite with semi-private bathrooms in each room.
- **Morrison Hall** and **Driscoll Hall** are both coed and nearly identical in design. Each hall contains single and double rooms, arranged into suites of 7 to 12 students. Preference for Driscoll Hall will be given to students participating in the Honors College.
- **Keiser Hall** and **Taylor Hall** are suite-style residence halls that accommodate students in mostly single rooms, arranged in suites of four to eight people that include living rooms and semi-private bathrooms. A computer lab in Keiser Hall is available to all residence hall students.
- **University Suites** are specifically designed for single students. This complex features four bedroom furnished suites, each of which include a living room, shared bathrooms, modern kitchen, dishwasher, and washer/dryer. High-speed Internet, cable TV, phone line, and utilities are provided. Meal plans are optional. Residents must be at least 20 years of age, or have upper-division status, or have prior residence hall experience without conduct issues.

If you wish to stay in a residence hall during semester break, the cost will be in addition to the charges covered by your *Residence Hall & Dining Agreement*. Meal service is suspended during these times.

How to Apply for Residence Hall Housing

Apply online at http://housing.boisestate.edu/application.html. Once the application has been completed, a $250.00 deposit (that includes a $25.00 non-refundable processing fee) will be posted to your Bronco Web account within 48 hours. The deposit charge must be paid before the application can be processed.

Note: The application process to live in university housing 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 residence hall housing is accepted, Boise State will assign you to a room in one of seven residence halls. In doing so, Boise State will make every effort to accommodate the preferences you have indicated on the application. Room assignment and accommodation of preferences are based on the date your *Residence Hall & Dining Agreement* is received (including the $250.00 application fee/security deposit). If you have a roommate preference, you should arrange for your application to arrive at about the same time, so you will have equal priority. Finally, please note that the preferences you indicate on the *Residence Hall & Dining Agreement* are not themselves contractually binding, though they will be honored whenever possible.

Cost Information

When the University Housing office accepts your application for housing in one of the residence halls, your contract covers room and board for the full academic year, as well as the costs of cable TV service, Internet, dining plan, and state sales tax. Housing prices also include a non-refundable processing fee of $25.00. The 2008-2009 prices for housing in the residence halls, along with meal plan options, are available by checking http://housing.boisestate.edu or calling 208 447-1001.

Note: Students occasionally ask if they can pay a reduced rate for housing if they omit the meal option from the housing contract. However, the economics of on-campus housing require Boise State University to base its charges on both room and board (with exception of University Suites).

Learning Communities at Boise State

There are many different types of learning communities. Learning communities tend to break students and faculty into smaller groups, which provides increased opportunity for faculty and student contact, interaction, and support. All in an effort to better promote student success in college.

Non-Residential Learning Communities

Through Boise State's Office of Academic Support Services, a Learning Community is a group of students enrolled in a block of common courses. This format provides a network of people already in place from the first day of class that continues throughout your stay at Boise State University. This is a way to form meaningful relationships with other students both in and out of the classroom. These communities provide opportunities to create meaningful and lasting study groups. For more information contact the Office of Advising and Academic Enhancement http://academicsupport.boisestate.edu/ or call 208 426-4049.

Living-Learning Communities (Students live in residence halls together)

The Residential College Program Founded in 2004, the Residential College program provides Boise State students a unique and special 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, planning learning outcomes, and activities that will benefit a student's overall academic experience, including earning academic credit for participating.

There are five communities with faculty-in-residence: Arts and Humanities, Business and Economics, Civic Leadership, Engineering, Health Professions.

The Honors College has a living-learning community or a residential component of the overall College, which is housed in Driscoll Residence Hall (first year students) and a small section of Taylor Hall (upper-division students). This living-learning community has a faculty director who does not live in the residence hall, but has an office within the hall.

First Year Focus—This is a living-learning community where 24 students will live together on one floor of John B. Barnes Towers Hall and take valuable core classes together. Students will be enrolled together in Communication 101, English 101, and University 101. Residency on this floor is dependent upon enrollment in these classes and completion of the housing application.

Global Village—The Global Village Community is a living-learning community that is open to any student interested in a multi-cultural experience, regardless of cross-cultural or travel experience. Co-sponsored with the International Programs Office, students will participate in activities to learn more about intercultural communication and other skills.

There are no additional costs associated with living in a Residential College/ Learning Communities. As a member of the Residential College, students have the chance to really get to know professors and develop strong friendships with your fellow students. Spaces are limited, so apply as soon as you are admitted to Boise State. Details are online at http://housing.boisestate.edu/rc/appprocess.html.

University Apartments

University Housing provides on campus housing for students enrolled at Boise State. The University manages apartment communities that are conducive to meeting the demands of undergraduate students over age 20, families, and graduate students. The university apartments provide an independent lifestyle with a broad range of options and amenities. University Housing employs a dedicated team to manage, offer programming, and support appropriate to our residents' desire for autonomy.

There are approximately 300 unfurnished apartments all conveniently located within walking distance of campus. All apartment complexes have on-site parking (one pass may be purchased through Parking and Transportation Services), playgrounds, and barbecue facilities.

- **University Heights** and **University Manor** consist of one and two bedroom apartments. Each unit has a wall-unit air conditioning/heating system, stove, and refrigerator. Coin-operated laundry facilities are located on-site. Tenants are responsible for the cost of electricity. Water, sewer, trash, and Internet are provided.
- **University Park** consists of two and three bedroom apartments. Each unit has a wall-unit air conditioning/heating system, stove, and refrigerator. Coin-operated laundry facilities are located on-site. Tenants are responsible for the cost of electricity. Water, sewer, trash, and Internet are provided.
- **University Square** consists of two bedroom apartments. Each unit has central air conditioning/heating, stove, refrigerator, dishwasher, and washer/dryer. Tenants are responsible for the cost of electricity and gas. Water, sewer, trash, basic cable TV, local phone, and Internet are provided.
- **University Village** consists of two bedroom apartments. Each unit has central air conditioning/heating, stove, refrigerator, and dishwasher. Coin-operated laundry facilities are located on-site. Tenants are responsible for the cost of electricity and gas. Water, sewer, trash, and wireless Internet are provided.

Applying to Rent an Apartment

Apply online at http://housing.boisestate.edu/application.html. The application requires a non-refundable $25.00 processing fee. Once an apartment offer has been made and accepted, a $225.00 non-refundable reservation fee will need to be paid within 72 hours. The reservation fee will be converted to the security deposit at the lease signing.

Eligibility

Boise State University apartments are reserved for undergraduate students enrolled in 8 credits or more and graduate students enrolled in 6 credits or more. In addition students must meet one of the following requirements: be at least 20 years of age, or have sophomore status, or have prior Boise State residence hall experience (two consecutive semesters), or be a head of household with dependents.

Cost Information

The 2008-2009 apartment rental rates are available at http://housing.boisestate.edu/livoptapt.html or by calling the Apartment Office at 208 447-1002.

Questions About University Housing?

If you have questions about university housing, contact the University Housing Office, Chaffee Hall, 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. Described below, these services, programs, and activities are grouped alphabetically in the following categories:

- Academic
- Health, Wellness and Counseling Services
- Student Activities
- Other Student Services

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.

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 at 2055 University Drive, 208 426-4049 for assistance in selecting courses, meeting general university requirements, and exploring academic opportunities.

Bridge Program for details see Chapter 3—Admissions.

Career Center The Career Center provides career planning and employment services to all Boise State students and alumni. These services include career counseling and major exploration, employment assistance (resume and cover letter review, interview training, and job search assistance), and coordinate the University's internship program. The Career Center's web-based career-guidance system focuses on student's interests, skills, and values for making career choices. A resource library and web site containing career-oriented information and job descriptions and salaries is available. The Career Center sponsors annual events including the on-campus student job fair, fall and spring career/job fairs, graduate/professional school day, and a majors fair. Through BroncoJobs students and alumni can access student-employment, internship, and career-employment opportunities listed by businesses, government agencies, not-for profits agencies, and school districts and schedule on-campus interviews with participating employers. Further information is available at http://career/boisestate.edu. We are located in the Alumni Center at 1173 University Drive, 208 426-1747.

International Programs/Education Abroad The International Programs Office provides students with 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 University 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. 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 distinct advantage in the job market. Opportunities are available for faculty to lead short-term education abroad programs and to teach abroad. The International Programs Office also administers the Fulbright Program and several national education abroad scholarship programs. For more information call 208 426-3652, http://international.boisestate.edu/.

National Student Exchange Program Involving nearly 200 colleges and universities, the National Student Exchange Program enables students to spend up to one year attending one of the host institutions located in the United States, Canada, Puerto Rico, the Virgin Islands, or Guam. 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. Additional information and application materials may be obtained from the National Student Exchange, International Programs Office, 208 426-3652.

New Student and Family Programs The Office of 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. The Office also focuses on providing support for family members of current students. Our most popular programs include New Student Orientation, First Year Read, Convocation, and Parent & Family Weekend.

New Student Orientation Once admitted, you will receive notice of your admission status as well as information on the next steps to complete enrollment. One of those steps will be to declare your intent to enroll through your BroncoWeb account. Once your intent is confirmed, you will be able to sign-up for a New Student Orientation program via your BroncoWeb account. 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. Orientation programs are held throughout the year; reservations are required, via BroncoWeb, for all programs and space is limited.

For more information contact the New Student and Family Programs Office at 208 426-1679 or visit http://orientation.boisestate.edu/.

New Student Information Center An arm of the Admissions Office, the New Student Information Center, located at the northeast entrance of the Student Union Building, 208 426-1820, BSUInfo@boisestate.edu, provides information to prospective students. You may contact the center for information on admission, campus visits, housing, financial aid, and special programs for prospective students.

Student Success Classes 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. Following is a list of student success classes at Boise State University. For more information contact Advising and Academic Enhancement, 208 426-4049.

UNIV 101 FRESHMAN SEMINAR (V-0-V). Students will develop life skills and attitudes needed to achieve educational and personal goals. Exploration of university resources, services, and policies. Fully integrated service-learning component required in 3-credit hour sections. May not be repeated for credit. PREREQ: Freshmen only.

UNIV 105 (ED-LTCY 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 UNIV or ED-LTCY credit, but not both. (Pass/Fail).

UNIV 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 using electronic and print library resources and learn about information in a societal context. Self-paced section offered. (Pass/Fail).

UNIV 108 CAREER AND LIFE PLANNING (3-0-3)(F/S). Designed to assist students in knowing self, the world of work, identifying resources, career planning, and proposed implementation of career and life plans. (Pass/Fail).

UNIV 120 (ED-LTCY 120) COMPREHENSION OF TEXTBOOK AND TEXT STRUCTURES (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 UNIV or ED-LTCY credit, but not both.

Test Preparation Assisting students to prepare for graduate school is the focus of short courses on the Graduate Records Exam (GRE) and the Graduate Management Admissions Test (GMAT) offered by Boise State University Extended Studies, 208 426-3861.

Tutorial Services Tutorial Services, located in the Gateway Center for Academic Support, 2055 University Drive, provides tutoring services to complement classroom instruction in university core math and science courses. Currently enrolled students are eligible to receive tutoring through campus drop-in centers or tutor-led study groups. A variety of academic skill building workshops are available free of charge throughout the year. Check the website for dates and how to register. The Study Skills Resource Center also provides students with a place to study and improve skills necessary for academic success. If you wish to hire a private tutor, a list of qualified tutors is posted on the website. Tutors are advanced students recommended by their academic departments who have earned an overall grade-point average of 3.0 and at least a B in the courses they tutor.

- Current tutor schedules and workshops are posted on the Tutorial Services Web site. http://tutoring.boisestate.edu
- The Math Drop-in Centers are located in Math Geosciences Building, Rooms 118 and 243. View the website for math levels tutored at each site.

Writing Center The Writing Center is open to all students at Boise State, a place where you can find support for your writing efforts in any subject, at any stage of your writing process: brainstorming, revising, editing. To schedule a consultation, stop by Liberal Arts, Room 200, or call 426-1298. You may also make an appointment online: http://www.boisestate.edu/wcenter.

Our normal hours:

- Monday through Thursday, 9:00 A.M. to 6:00 P.M.
- Friday, 9:00 A.M. to 4:00 P.M.
- For evening and weekend hours, please call.

To make the best use of the Writing Center, bring the piece of writing that you are working on and a copy of the assignment (if possible). If you cannot come in to the Center, we do offer e-mail consultations for writers. Visit our web page for more information on how to send us your paper.

The Boise State Writing Center—Make Us Central to Your Writing!

Health, Wellness and Counseling Services

ALL Boise State University students are eligible to utilize Health, Wellness and Counseling Services, regardless of their health insurance coverage status.

Counseling Services Counseling Services primary purpose is to help students deal more effectively with concerns that influence their pursuit of personal and academic goals. Counseling Services is staffed with psychologists, counselors, para-professionals, and graduate counseling students. Services range from individual counseling and crisis intervention to workshops and classes aimed at enhancing the overall learning environment at Boise State University. In particular, Counseling Services assists students in resolving such matters as interpersonal conflicts, test anxiety, stress-related problems, depression, couple's concerns, and social and emotional problems. Counseling services are available for all students at a minimal per visit cost (no charge for initial assessment). To make an appointment, call 208 426-1601 or 426-1661 between 8:00 A.M. and 5:00 P.M., Monday through Friday, or stop by Counseling Services (first floor of Taylor Hall).

Medical Services All students may receive outpatient medical care at the Health & Wellness Center, located at 2103 University Drive, 208 426-1459. The Health & Wellness Center is equipped to address most of the student's outpatient health care needs, and makes referrals to community providers for more specialized tests and procedures. Primary clinical care services are student-focused, accessible and affordable. Emphasis is placed upon early screening and prevention, and empowering students with self care knowledge and skills. Costs are covered through a combination of student fees and fee-for-service charges for office visits, laboratory tests, medications, and specialized procedures. Students are financially responsible for any non-covered charges from their health insurance plan and for services received outside of the Health & Wellness Center. Located directly across University Drive from the Public Affairs/Arts West Building, the clinic is open from 8:00 A.M. to 5:00 P.M., Monday and Wednesday through Friday, and 9:00 A.M. to 5:00 P.M. on Tuesday. Spring semester students not enrolled in summer school are eligible for summer services at a minimal cost.

Student Health Insurance Plan (SHIP) Health, Wellness, and Counseling Services also coordinates the university-sponsored SHIP program. SHIP provides supplemental health care coverage for students, seamlessly integrating campus primary care services with community specialty care, emergency services, and hospitalization. SHIP also educates students on how to be savvy consumers of health care, focusing on how to effectively access and utilize all health-related services and insurance/financing options.

Insurance Coverage All full-fee-paying students (those enrolled for 8 or more credit hours) and all international students are automatically enrolled in SHIP, with the premium charge added to their tuition and fees billing. Students are insured at home or school, while traveling, and during all vacation periods 24 hours a day for the policy period. Coverage for the fall semester begins on August 15 and ends on January 14. Spring semester benefits begin January 15 and continue through August 14. Student health insurance benefits are available to spouses and dependents.

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 coverage each semester. Waivers must be filed for both the fall and spring semesters by the 10th day of class. Please go to: http://www.boisestate.edu/healthservices/insurance to review the comparability requirements. If your alternative health insurance plan meets these comparability requirements, please log on to broncoweb.boisestate.edu to submit your SHIP waiver request (MUST be filed online). After you are logged in, click on Students then Student Financials then Health Insurance.

For questions about enrollment, contact the SHIP Office at 208 426-2158 or by e-mail: ship@boisestate.edu.

Wellness Services Wellness Services promotes the health of students, faculty and staff through the delivery of programs and services, working to create a socially just, healthy learning community and work environment. Events, classes, groups, screenings, incentive programs and health coaching are offered at low or no cost. For online health assessments and health information, log onto: www.boisestate.edu/healthservices/info.

Wellness resource stations are located at Boise West Student Services and the Health and Wellness Center, including a lending library. Internship opportunities are available. For more information and a calendar of events, contact the Wellness Services office at 208 426-5686, http://www.boisestate.edu/healthservices/wellness.

Student Activities

Boise State University offers students the opportunity to participate in over 200 student organizations. Such organizations represent the interests and concerns of a broad spectrum of special-interest groups, from music lovers to rodeo fans. In addition, honorary and professional societies are well-represented on campus, with student chapters for nearly every field of study.

In addition to supporting student organizations, Student Activities sponsors Student Union art exhibits, Homecoming, a classical music series, Bronco Welcome, and many other events. Opportunities to pursue leadership experiences beyond the classroom are plentiful. Student Activities offers weekend leadership retreats, academic internships, an emerging leaders program/Leadership Quest, several recognition awards and the Founder's Leadership Society.

Among the services funded by student fees are the *Arbiter* (the student newspaper), University Pulse (student radio), Martin Luther King, Jr. Human Rights Celebration, and the Volunteer Services Board (Community Service). In addition, the Student Programs Board presents a variety of performing arts, lectures, concerts, comedians, films, special events, and family activities. For additional information call Student Activities at 208 426-1223 or visit us online at http://sub.boisestate.edu.

Student Government The Associated Students of Boise State University (ASBSU) strives to represent the interests of all Boise State University students and to encourage student participation in university life. The ASBSU Executive Branch is composed of the president, who acts as the voice and representative of the students; and the vice-president, who is the chief officer of the ASBSU Senate. The ASBSU Senate develops and coordinates ASBSU-sponsored activities, passes legislation for the general welfare of all students, and grants funds to officially recognized student organizations. The ASBSU Judiciary approves recognition of student organizations and determines the constitutionality of questions brought before it. Other advisory and governing boards serve as forums for student comment on vital policy and administrative decisions that affect the ASBSU and the university. For additional information on student government, call the ASBSU Office at 208 426-1440.

Student Union The Student Union serves as the center for campus life providing educational, cultural, social, recreational, and leadership programs and services that are integral to the academic experience. The SUB offers the University Bookstore, several food service locations, a copy center and many meeting rooms that feature lectures, movies, programs and workshops open to all students. It is a great place to study and to hang out with friends in between classes.

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 of students enrolled for six or more credits. Operating hours are 7:00 A.M. — 5:30 P.M., five days a week during fall and spring semesters and ten weeks of summer session. Care is provided for children six weeks—five years of age. It is located at the corner of Beacon and Oakland Streets. The Center is licensed through the City of Boise and accredited through the National Academy of Early Childhood Programs. Financial assistance is available. For more information and rates, call 208 426-4404 or visit http://childrenscenter.boisestate.edu/.

Cultural Center Located on the second floor of the Student Union Building, 208 426-5950, the Cultural Center is a place where students can meet in a relaxed, friendly atmosphere. The Cultural 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. The Cultural Center also provides a forum for workshops aimed at helping students learn the skills they need for a successful experience at Boise State University.

Disability Resource Center located in the Administration Building, Room 114, 208 426-1583. It is responsible for providing support services that enable all students with disabilities to participate in Boise State University's educational programs. The Disability Resource Center provides students, faculty, and staff with information about specific disabilities. Services provided include:

- student advocacy
- screening interviews
- referrals to local diagnosticians and community services
- accommodation letters for instructors
- information about and orientation to the university
- registration assistance
- interpreter services
- conversion of print material into accessible formats
- help setting up note taking services
- exam accommodations
- assistive/adaptive technology

For further information: http://disabilityresourcecenter.boisestate.edu/.

English Language Support Services Free one-on-one ESL tutoring available for English language learners. Flexible hours are negotiable. Call 426-1189 for information. Additional ESL resources can be found at www.boisestate.edu/esl.

International Students The International Programs Office, located at 1136 Euclid Avenue, 208 426-3652 advises all international students, assisting with orientation, immigration regulations, visa issues, and cultural adjustment. Upon arrival in Boise, new international students must report to the International Programs Office and attend the international student orientation. This office serves as a central source of information for all international students.

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 provided include: academic enrichment, research (conducted with stipend) and numerous 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 call 208 426-1194.

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:

Boise State West
5500 E. University Way, Nampa, ID 83687
208 562-3100

Boise State University Canyon County Campus
2407 Caldwell Boulevard, Nampa ID 83651
208 562-2100

Gowen Field
Harvard Street, Building #521, Gowen Field, Boise, ID 83705
208 422-3758 or 208 426-3293

Mountain Home Air Force Base
665 Falcon, Mountain Home Air Force Base, ID 83648
208 828-6746 or 208 426-3293

Twin Falls
Taylor Administration Building
College of Southern Idaho Campus
208 736-2161

Student Rights and Responsibilities Boise State is committed to maintaining a strong, academically honest environment, free from harassing and disruptive behavior. The Office of Student Rights and Responsibilities serves as the central coordinating office for students who violate University student conduct regulations. The Office of Student Rights and Responsibilities also coordinates the Student Mediation program and processes for assisting students who are at-risk.

For further information please call 208 426-1527 or visit http://www.boisestate.edu/osrr/.

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 Universite'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 Success Program The Student Success Program is a U.S. Department of Education funded TRiO program that exists to help undergraduate students complete a baccalaureate degree. The program is designed to serve 180 low-income and first-generation students, or students that have been documented with disabilities. Services provided are: individualized tutoring, academic and personal advising, career planning, academic skills development, computer access, assistance for students with learning disabilities, and financial support for students with freshman or sophomore status. The Student Success Program is located at 1885 University Drive, across from the Administration Building. For more information please visit our website at: http://www@education.boisestate.edu/ssp/index.html or call 208 426-3583.

Veterans Services The Veterans Services Office, located in the Administration Building, Room 111, 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, individual educational goals, and admission requirements. Tutorial and work-study programs for veterans and dependents are also coordinated through the Veterans Services Office.

The Vice President for Student Affairs Located in the Administration Building, Room 208, 208 426-1418. The Office provides support and service to students who need clarification and advice regarding a wide range of issues or problems. Service is provided in an atmosphere of confidentiality and concern.

The Vice President for Student Affairs along with the other office staff provide the resources for students to work through issues including academic concerns, personal concerns, and personal and family emergencies. Personalized referrals to other University resources and services is key to providing proactive and comprehensive advocacy to students.

Women's Center The Women's Center empowers students to achieve their goals and promotes social change by providing educational outreach, support services, and a safe place. Services include a mentoring program for "non-traditional" women students, support groups, educational workshops, academic internships, a resource lending library, supportive referrals, a single parents club, publication of a monthly newsletter, and sexual assault crisis response. The center sponsors educational programs such as Eve Ensler's play, *The Vagina Monologues*, Women's History Month activities, violence awareness, response, and education programs. For a full list of programs and services visit the website at http://womenscenter.boisestate.edu or stop by the center, located at the corner of Lincoln and University Drive, 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 tranfer programs, see Chapter 11—Summary of Programs and Courses.

Table 10.1
Types of Degrees and Certificates Offered at Boise State University

Code	Description
A.A.	Associate of Arts
A.A.S.	Associate of Applied Science
A.S.	Associate of Science
A.T.C.	Advanced Technical Certificate (Applied Technology)
B.A.	Bachelor of Arts
B.A.S.	Bachelor of Applied Science (Applied Technology)
B.B.A.	Bachelor of Business Administration
B.F.A.	Bachelor of Fine Arts
B.G.S.	Bachelor of General Studies
B.M.	Bachelor of Music
B.S.	Bachelor of Science
Ed.D.	Doctor of Education
G.C.	Graduate Certificate
M.A.	Master of Arts
M.A.A.	Master of Applied Anthropology
M.A.H.R.	Master of Applied Historical Research
M.B.A.	Master of Business Administration
M.Ed.	Master of Education
M.E.T.	Master of Educational Technology
M.Engr.	Master of Engineering
M.F.A.	Master of Fine Arts
M.H.S.	Master of Health Science
M.M.	Master of Music
M.N.	Master of Nursing
M.P.A.	Master of Public Administration
M.P.E.	Master of Physical Education
M.S.	Master of Science
M.S.N.	Master of Science in Nursing
M.S.W.	Master of Social Work
Ph.D.	Doctor of Philosophy
P.T.C.	Postsecondary Technical Certificate (Applied Technology)
T.C.	Technical Certificate (Applied Technology)

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). Depending on the major you choose, you will receive one of the many degrees offered by Boise State. 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. If you major in child care and development, you will receive an associate of applied science degree.

Traditionally, obtaining a baccalaureate degree has required four years or more of full-time study, while obtaining an associate degree has usually required 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 in order 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. If you have not selected a major, you will work with an advisor from the Advising and Academic Enhancement, Gateway Center, 2055 University Drive, 208 426-4049.

Academic and Career Advising

Academic and career advising are the processes by which students receive help in forming their educational and career goals and planning ways to achieve them. Based on a student's individual circumstances, personal development and skills, advisors provide information and support and foster a sense of responsibility in students to achieve their own goals. Academic and career advising at Boise State University are integrated because there is a strong relationship for most students between their educational and career goals. Boise State University is proactive about assisting students to explore this relationship for themselves and about raising awareness of the need for both academic and career planning throughout students' programs of study. Academic and career advising include:

- Ongoing contact with an informed and supportive representative of the campus community
- Degree planning, including introduction to and explanation of academic requirements, policies and procedures
- Exploration of necessary skills
- Referral to campus resources
- Career exploration, information and preparation

Most advisors are faculty members, although some departments also employ professional and peer advisors. In most cases, once you have selected a major, you will work with a faculty advisor from your department. Advisor assignments are handled differently in each department and to get accurate information, you must contact the department directly regarding advisor selection and appointment scheduling.

If you have not selected a major, you will work with an advisor in Advising and Academic Enhancement, 2055 University Drive. If you are a freshman, sophomore or new transfer student majoring in any business program, you will work with an advisor from the College of Business and Economics Student Services Center, located in the Business Building, Room 116. If you are interested in any program in the Larry G. Selland College of Applied Technology, contact the Larry G. Selland College of Applied Technology Enrollment Management and Student Success, Technical Services Building, Room 109.

Boise State encourages you to seek academic advising whenever you have questions about academic planning.

General Degree Requirements

To obtain an **associate degree**, you must successfully complete the number of credits specified for that degree (see "Credit Requirements for Various Degrees," below). You must complete the final 15 of your last 18 credits at Boise State (residency requirement). In addition, you must:

- meet the English Composition Requirement (except for some majors)
- meet the Mathematics Requirement (except for some majors)
- complete a specified number of *core courses* (see page 44), receiving a grade of C- or higher in each course
- attain a cumulative grade-point average (GPA) of 2.0 or higher
- complete all other requirements specified by the program or department offering the degree
- apply for graduation (see "How to Apply for Graduation," page 53)

To obtain a **baccalaureate degree**, you must complete a minimum of 128 credits. Of those 128 credits, at least 40 must be in upper-division courses (courses numbered 300 or higher). You must complete 30 of your last 36 credits at Boise State (residency requirement). In addition, you must:

- meet the Diversity Requirement (see page 42)
- meet the English Composition Requirement (see page 43)
- meet the Mathematics Requirement (see page 43)
- complete a specified number of *core courses* (see page 44), receiving a grade of C- or higher in each course
- 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
- complete all major requirements specified by the program or department offering the degree
- apply for graduation (see "How to Apply for Graduation," page 53)

Diversity Requirement

Three credits from diversity-designated courses will fulfill Boise State's Diversity Requirement. For most majors this requirement does not alter the number of credits needed for the baccalaureate degree. All diversity approved courses are designated as "Diversity" in their course description and are listed in Tables 10.2, 10.6, 10.7, and 10.8.

Philosophy of the Diversity Requirement

Boise State University values cultural diversity in its faculty, its students, and its curriculum. Because we live in a multicultural world, we seek to educate students to recognize and appreciate the many ways in which each of us is shaped by gender, sexual orientation, class, race, culture, ability, nationality, religion, and ethnicity. This requires more than just exposure to cultural differences; it requires that we critically examine such differences being attentive to the special challenges that each of us faces in understanding those whose lives are shaped by cultures other than our own. It is hoped that such reflection will afford each of us a critical perspective of the cultures with which we are most familiar and help us appreciate the elements common to human beings across cultures.

The Diversity Requirement will serve as a foundation for ongoing exploration of difference. Accordingly, such courses will 1) be concerned with issues and/or theories of gender, sexual orientation, class, race, culture, nationality, ability, religion, or ethnicity as these may be found anywhere in the world; and 2) require reflection on the challenges and benefits of dialogue across differences.

Learning Outcomes of the Diversity Requirement

1. Knowledge Content: The course will increase the student's knowledge and awareness of the unique contributions of diverse groups and their beliefs, values, knowledge, and experiences of people of diverse groups.
2. Self-reflection: The course will require students to gain self-awareness of and insight into their cultural perspectives.
3. Diversity Skills: The course will develop students' abilities to sensitively work with diverse individuals and groups while building diverse relationships.
4. Social Analysis: The course will critically examine social institutions and their policies and structures, either in the United States or abroad, that affect or are affected by the beliefs, values, and experiences of people or diverse groups.
5. Scope: The course will contain multidisciplinary examinations of difference, power, and oppression.

Table 10.2
Additional Diversity Courses at Boise State University

239, 439 Foreign Study
ANTH 200 Kinship, Social Organization, and Networks
ANTH 209 Issues in Global Diversity
ANTH 216 Comparative Religion
ANTH 314 Environmental Anthropology
ANTH 425 Medical Anthropology: Disease, Culture, and Health
ECON 315 Global Economic Development
ECON 325 Radical Economics
ED-BLESL 200 Cultural Diversity in the School
ED-SPED 250 Exceptionality in the Schools
ED-SPED 350 Teaching Students with Exceptional Needs at the Secondary Level
ENGL 213 African-American Literature
ENGL 413 The New Literatures in English
ENVHLTH 100 Introduction to Environmental Health
GENBUS 202 The Legal Environment of Business
GENBUS 441 Business, Government, and Society
GENDER 300 Introduction to Gender Studies
GENDER 301 Feminist Theory
GENDER 303 Introduction to Women's Studies
GENDER 371 The Social Psychology of Gender
GENDER 380 Colloquium in Gender Studies
GENDER 480 Seminar in Gender Studies
GEOG 210 Survey of World Regional Geography
HIST 344 Women in America from the Colonial Era to the Present
HLTHST 207 Nutrition
HLTHST 314 Health Law and Ethics
LING 407 Applied Linguistics in Teaching English as a Second Language
MKTG 430 International Marketing
MUS 404 Survey of Music of World Cultures
NURS 376 Caring for the Emerging Diverse Community
PHIL 321 Eastern Philosophy
PSYC 331 The Psychology of Health
RADSCI 230 Radiation Biology-Protection
RADSCI 234 Introduction to Radiography Clinical Experience
RADSCI 310 Pharmacology and Contrast Medias
RADSCI 360 Special Radiographic Procedures
SOC 279 Contemporary Mexican Society and Relations with the U.S.
SOC 306 Sociology of African Americans
SOC 307 The Asian American Social Experience
SOC 312 Population Demography
SOC 333 Mexican-American Life through Sociology, Literature, & Practice
SOC 371 The Social Psychology of Gender
SOC 425 Urban Sociology
SOC 471 Feminist Theory
THEA 230 Development of Theatre I: Classical-Neoclassical Forms
THEA 330 Development of Theatre III: Contemporary Forms
THEA 390 Dramaturgy

Additional courses that will meet the diversity requirement are listed in tables 10.6, 10.7, and 10.8.

English Composition Requirement

Because the ability to read, write, and think critically are characteristics of an educated person, Boise State University requires students to demonstrate proficiency in 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 English proficiency in one of several other ways.

The English Composition Requirement is administered by the Writing Program Office within the English Department. Call the Writing Program Office at 208 426-4209 or 426-1622 if you have questions about this requirement.

How to Meet the English Composition Course Requirement

In order to satisfy the English Composition Requirement, you must successfully complete with a grade of C- or higher one of the following sequences:

- ENGL 101 and ENGL 102 English Composition
- ENGL 101 and ENGL 112 Honors Composition

Or earn test score credit based on the ACT, SAT, or COMPASS exams as indicated in Table 10.3. **You may not use test score credit to substitute or improve a previous grade earned in a course.**

You may also need to take ENGL 90 Developmental Writing, if your placement score so indicates. You may wish to take ENGL 90 if you feel that your previous writing experience has been inadequate, even if your placement score indicates that you are eligible to take ENGL 101.

NOTE: ENGL 90 carries no academic credit, but is equivalent to 3 credits for purposes of computing fees and determining eligibility for financial aid. To take ENGL 90 you do not need a placement score.

The course sequence you take depends on your score on the English portion of the ACT, SAT, or COMPASS as indicated in Table 10.3.

Table 10.3
Course Placement or Sequence for Meeting the English Composition Course Requirement

ACT* English	SAT* Critical Reading	COMPASS*	SEQUENCE INDICATED
0-17	200-440	0-67	Take ENGL 90, then ENGL 101 and ENGL 102
18-24	450-560	68-94	Take ENGL 101, then ENGL 102
25-30	570-690	95-99	3 credits (P) for ENGL 101 and placement in ENGL 102
31-36	700-800		Credit (P) for both ENGL 101 and ENGL 102 (6 total credits)

NOTE: The COMPASS does NOT give credit for ENGL 102.

International Students If English is not your native language, you must take the **Michigan Exam** instead of the COMPASS exam to determine what courses you should take; see the *Boise State University Schedule of Classes* for details.

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 English Composition Course Requirement. If your courses do not transfer as equivalent to ENGL 101 (and/or ENGL 102), call the English Writing Program office at 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 in the Payment and Disbursement Center, Administration Building, Room 211, prior to taking the test. Bring the fee receipt and **photo ID** (required) to the lab. You may take the exam **at most twice** during a given semester, and results are valid for placement **only for the designated semester.**

Prerequisite Courses: You may be exempt from the placement exam if you have taken an appropriate prerequisite course. The following table groups the courses for which placement exams are given into four categories. You may take a course in a given category if you have received a C- or higher in either the prerequisite course listed for that category, or another course in the same or higher numbered category.

Table 10.4
Math Placement Exam/Prerequisite Categories

Category	Courses in Category	Prerequisite
1	COMPSCI 115, MATH 108, MATH 124, MATH 130	MATH 25
2	COMPSCI 119, MATH 143, MATH 147, MATH 157, MATH 254	MATH 108
3	MATH 144, MATH 160, MATH 187	MATH 143
4	COMPSCI 117, COMPSCI 125, MATH 170	MATH 147

Transfer students will need to contact the mathematics department 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 below gives placement cutoffs for both standard and percentile scores. You may take the indicated course **if either your standard score or your percentile is high enough.**

Table 10.5
Exam Scores/Placement Cutoffs

Category	ACT Std.	SAT Std.	Percentile	COMPASS
MATH 108	18	430	41	40 (ALGP)
1 (except MATH 108)	19	460	48	45 (ALGP)
2	23	540	70	61 (ALGP)
3	27	620	88	51 (CALGP)
4	29	650	93	51 (TRIG)

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.

University Core Requirements for Baccalaureate Degrees

Requirements for baccalaureate degrees are fulfilled by taking a combination of core courses, courses in the student's major (a primary field of study, such as history or philosophy), and electives (additional courses falling outside the major that count toward the total number of credit hours required for the degree). Core courses provide students with a broad educational experience that provides a foundation and wider context for more advanced study in the major field.

Philosophy of the Core

It is the University's responsibility to help students learn to think critically, to communicate clearly and concisely in oral, written, and visual form, to appreciate themselves as part of a larger world, and to cultivate the imagination and intellectual curiosity required for life-long learning. The Core curriculum is designed to help students develop skills, knowledge and understanding that can be applied toward these ends. The curriculum provides a variety of foundational courses in each of three broad areas that approach learning and problem solving in different ways and contribute to the preparation of students as both local and global citizens.

Area I courses are typically offered by disciplines in the humanities, arts, languages, and philosophy. They provide opportunities to engage in the study of intellectual and aesthetic products from a variety of cultures. Knowledge of expressions of culture promotes understanding of the diverse ways in which human thought, experience, and communication are historically and ideologically shaped and culturally preserved.

Area II courses are typically offered by disciplines in the social and behavioral sciences, history, education, and economics. They engage students in the study of how people, cultures, societies, and institutions function and have evolved both in specific situations and over time. They examine the forces that shape human and social activity. Appreciation of methods of inquiry provides insight into human cultures and societies.

Area III courses are typically offered by disciplines in the natural and physical sciences, engineering, and mathematics. They promote understanding of the observable physical world. They engage students in the exploration of the relationships among variables. The skills of scientific inquiry expand each student's ability to understand the world and the ways in which applications of science, engineering, and mathematics transform our lives in substantial ways.

Learning Outcomes of the Core Curriculum

The faculty of Boise State University have identified learning outcomes for the core curriculum. Specific learning outcomes for each course are listed in course syllabi for core courses, while general learning outcomes for the overall core experience are defined below.

Critical Thinking/Problem Solving Skills

The development of Critical Thinking and Problem Solving skills are essential to life long learning and for professional growth/success. Graduating students are expected to be able to do at least the following effectively, in a variety of subject matters and contexts:

- Evaluate the information and processes essential to the solution of a problem
- Understand that a variety of strategies for solving a problem may exist
- Apply and evaluate a variety of strategies for solving a problem
- Analyze quantitative information (e.g., numerical data, charts, graphs, or tables) to understand a problem or its solution
- Analyze qualitative data (e.g., symbols, texts, artifacts or behaviors) to understand a problem or its solution
- Distinguish fact from opinion
- Assess the extent to which an argument is supported by facts
- Identify assumptions or hypotheses embedded in arguments
- Construct a logically defensible argument

Communication Skills

Effective communication skills are essential for sharing ideas between individuals and organizations and enhancing both personal and professional success. As a result, graduating students are expected to be able to do at least the following effectively, in a variety of subject matters and contexts:

- Interpret written materials
- Write clearly for specific purposes and audiences
- Make effective formal oral presentations appropriate to specific purposes and audiences
- Employ speaking and listening skills effectively in interactions with others
- Use information sources appropriately in oral or written communication

Cultural Perspective

The ability to appreciate perspectives and experiences different from one's own is important for both individual growth and for society. Such cultural perspectives can be defined by history and geographical location as well as by race/ethnicity, gender/gender identity, age, sexual orientation, disability, faith, national origin, political affiliation, as well as other identities within our society. Graduating students are expected to be able to do at least the following:

- Compare the distinguishing characteristics of your own culture to those of another
- Use an understanding of another culture as a lens to understand your own cultural perspectives
- Compare the creative accomplishments valued by another culture to those of your own culture
- Recognize the rights and responsibilities of active citizenship

Breadth of Knowledge and Intellectual Perspective

Study in a wide variety of fields is important preparation for both life-long learning and for local and global citizenship. Graduating students are expected be able to do at least the following, at the introductory level, in a sampling of fields of study in the arts and humanities, the social sciences, mathematics and the natural sciences:

- Demonstrate an understanding of the essential concepts underlying theories in the field
- Apply theories to typical problems in the field
- Demonstrate an understanding of the basic methods of inquiry used in this field
- Use appropriate methods of inquiry to answer basic questions in the field
- Identify important issues for which a diversity of interpretation between experts in the field exists

Because core courses serve as a foundation for specialized work and can enhance your understanding of your chosen major, you should work carefully with your advisor to select appropriate core courses. Specific educational objectives for each degree and certificate program are available on the Boise State web sites of individual programs.

NOTE: Core courses deemed crucial to a particular discipline are often incorporated into the major requirements within the discipline. For example, the mathematics department requires that its majors take MATH 170 Calculus I, and MATH 175 Calculus II — courses that also satisfy Area III core requirements. If you carefully compare the core requirements with the requirements for your major, you may find that certain core courses will count toward both requirements.

Tables 10.6, 10.7, and 10.8 list the approved courses offered at Boise State in Areas I, II, and III. Each area is further divided into courses offered in various fields of study. For example, Area I includes art, music, and philosophy among its fields of study. Each degree requires that you complete a certain number of core courses; in addition, each degree specifies the distribution of those core courses among Area I, Area II, and Area III. The following section, "Credit Requirements for Various Degrees," defines the core requirements for various types of degrees, including the core requirements associated with each degree.

If you are a transfer student, you may be exempt from some specific requirements identified here. For more information, see "Transferring Credits to Boise State" in this chapter.

Table 10.6
Approved Area I Arts and Humanities Core Courses at Boise State University

ART
- ART—Art
  - ART 100 Introduction to Art
- ARTHIST—Art History
  - ARTHIST 101, 102 Survey of Western Art

ENGL—English
- ENGL 216 Cultural Exchange in Transnational Literature (**Diversity**)
- ENGL 257 Western World Literature
- ENGL 258 Western World Literature
- ENGL 267 Survey of British Literature to 1790
- ENGL 268 Survey of British Literature: 1790 to Present
- ENGL 277 Survey of American Literature: Beginning to Civil War
- ENGL 278 Survey of American Literature: Civil War to Present

ENGR—Engineering
- ENGR 102 The Ethical Dimensions of Technology (**Diversity**)

HUM—Humanities
- HUM 207, 208 Introduction to Humanities

MODERN LANGUAGES *(All courses listed satisfy the* **Diversity** *requirement)*
- ARABIC—Arabic
  - ARABIC 101, 102 Elementary Arabic I and II
  - ARABIC 201, 202 Intermediate Arabic I and II
- ASL—American Sign Language
  - ASL 101, 102, 201, 202 American Sign Language I, II, III, and IV
- BASQUE—Basque
  - BASQUE 101, 102 Elementary Basque I and II
- CHINESE—Mandarin Chinese
  - CHINESE 101, 102 Elementary Mandarin Chinese I and II
  - CHINESE 201, 202 Intermediate Mandarin Chinese I and II
- FRENCH—French
  - FRENCH 101, 102 Elementary French I and II
  - FRENCH 201, 202 Intermediate French I and II
- GERMAN—German
  - GERMAN 101, 102 Elementary German I and II
  - GERMAN 201, 202 Intermediate German I and II
- JAPANESE—Japanese
  - JAPANESE 101, 102 Elementary Japanese I and II
  - JAPANESE 201, 202 Intermediate Japanese I and II
- SPANISH—Spanish
  - SPANISH 101, 102 Elementary Spanish I and II
  - SPANISH 108 Intensive Elementary Spanish
  - SPANISH 111-112 Elementary Spanish 101A and 101B
  - SPANISH 113-114 Elementary Spanish 102A and 102B
  - SPANISH 201 Intermediate Spanish I
  - SPANISH 202 or SPANISH 203 Intermediate Spanish II

MUS—Music
- MUS 100 Introduction to Music
- MUS 101 Survey of Western Art Music

PHIL—Philosophy
- PHIL 101 Introduction to Philosophy
- PHIL 201 Introduction to Logic

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

Additional courses that will meet the diversity requirement are listed in tables 10.2, 10.7, and 10.8.

Table 10.7
Approved Area II Social Sciences Core Courses at Boise State University

ANTH—Anthropology
- ANTH 101 Physical Anthropology
- ANTH 102 Cultural Anthropology (**Diversity**)
- ANTH 103 Introduction to Archeology

CJ—Criminal Justice
- CJ 103 Introduction to Law and Justice

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

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

ED-CIFS—Curriculum, Instruction, and Foundational Studies
- ED-CIFS 201 Foundations of Education (**Diversity**)

GEOG—Geography
- GEOG 100 Introduction to Geography
- GEOG 102 Cultural Geography (**Diversity**)

HIST—History
- HIST 101, 102 History of Western Civilization
- HIST 111, 112 U.S. History
- HIST 121 Eastern Civilizations (**Diversity**)
- HIST 201, 202 Problems in Western Civilization
- HIST 211, 212 Problems in U.S. History

If you have received credit in HIST 101 and HIST 102, you cannot take HIST 201 or HIST 202. Likewise, if you have received credit for HIST 111 or HIST 112, you cannot take HIST 211 or HIST 212.

POLS—Political Science
- POLS 101 American National Government
- POLS 141 Contemporary Political Ideologies (**Diversity**)
- POLS 231 International Relations (**Diversity**)

PSYC—Psychology
- PSYC 101 General Psychology

SOC—Sociology
- SOC 101 Introduction to Sociology (**Diversity**)
- SOC 102 Social Problems (**Diversity**)
- SOC 230 Introduction to Multi-ethnic Studies (**Diversity**)

SOCWRK—Social Work
- SOCWRK 101 Introduction to Social Welfare

Additional courses that will meet the diversity requirement are listed in tables 10.2, 10.7, and 10.8.

Table 10.8
Approved Area III Natural Science and Mathematics Core Courses at Boise State University

BIOL—Biology
- BIOL 100 Concepts of Biology
- BIOL 107 Introduction to Human Biology
- BIOL 109 (BOT 109) Plants and Society (**Diversity**)
- BIOL 191, 192 General Biology I & II
- BIOL 227, 228 Human Anatomy and Physiology

CHEM—Chemistry
- CHEM 100 Concepts of Chemistry
- CHEM 101, 102 Essentials of Chemistry
- CHEM 111, 112 General Chemistry
- CHEM 115 Materials Science Chemistry

If you receive credit for CHEM 102 Essentials of Chemistry or CHEM 112 General Chemistry II, you cannot count CHEM 100 Concepts of Chemistry, toward the core requirements.

ENGR—Engineering
- ENGR 100 Energy for Society

—continued—

Approved Area III — Natural Science and Mathematics (continued)
GEOS—Geosciences GEOS 100 Fundamentals of Geology GEOS 101 Environmental Geology GEOS 102 Historical Geology If you have earned credits in a geology course other than GEOS 100 Fundamentals of Geology, you cannot enroll in GEOS 100. In addition, you cannot enroll in GEOS 100 if you are an earth science major planning to take an 8-hour sequence in geology or a nonscience major planning to take an 8-hour sequence in geology.
MATH—Mathematics MATH 124 Introduction to Mathematical Thought MATH 130 Finite Mathematics MATH 143 College Algebra MATH 147 Precalculus MATH 160 Survey of Calculus MATH 170 Calculus I MATH 175 Calculus II MATH 187 Discrete and Foundational Mathematics I MATH 254 Applied Statistics with Computers MATH 257 Geometry and Probability for Teachers
PHYS—Physics PHYS 100 Foundations of Physics 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
Additional courses that will meet the diversity requirement are listed in tables 10.2, 10.6, and 10.7.

Credit Requirements for Various Degrees

Tables 10.9 through 10.20 define the minimum credit requirements for each degree offered at Boise State University. See Chapter 12—Academic Programs and Courses, for Bachelor of Applied Science and Bachelor of General Studies requirements.

Table 10.9
Minimum Credit Requirements for the Bachelor of Arts Degree (B.A.)

Content	Notes	Credits
ENGL 101-102	English Composition See "How to Meet the English Composition Requirement"	6
Area I	Area I core course in literature Area I core course in a second field Area I core course in a third field Area I core course in any field	3 3 3 3
Area II	Area II core course in history Area II core course in a second field Area II core course in a third field Area II core course in any field	3 3 3 3
Area III	Area III core course in mathematics Area III core course in a second field Area III core course in any field	3-5 4 4
Area I or II Electives	These courses do not have to be selected from the approved core list, but are to be chosen from anthropology, art, communication, criminal justice, economics, ED-CIFS, foreign language, geography, history, humanities, literature, music, philosophy, political science, psychology, social work, sociology, and theatre arts.	9
Major	See the requirements for your major in Chapter 12—Academic Programs and Courses.	

Table 10.10
Minimum Credit Requirements for the Bachelor of Science Degree (B.S.)

Content	Notes	Credits
ENGL 101-102	English Composition See "How to Meet the English Composition Requirement"	6
Area I	Area I core course in one field Area I core course in a second field Area I core course in a third field Area I core course in any field	3 3 3 3
Area II	Area II core course in one field Area II core course in a second field Area II core course in a third field Area II core course in any field	3 3 3 3
Area III	Area III core course in mathematics Area III core course in a second field Area III core course in any field	3-5 4 4
Area II or III Electives	These courses do not have to be selected from the approved core list, but are to be chosen from anthropology, biology, chemistry, communication, criminal justice, economics, ED-CIFS, engineering, geography, geosciences, history, mathematics, physical science, physics, political science, psychology, social work, and, sociology.	9
Major	See the requirements for your major in Chapter 12—Academic Programs and Courses.	

Table 10.11
Minimum Credit Requirements for the Bachelor of Business Administration Degree (B.B.A.)

Content	Notes	Credits
ENGL 101-102	English Composition See "How to Meet the English Composition Requirement"	6
Area I	Area I core courses	6
Area II	ECON 201 Principles of Macroeconomics ECON 202 Principles of Microeconomics Area II core course in a second field Area II core course in any field except economics	3 3 3 3
Area III	Area III core course (MATH 143 or MATH 147) Area III core course (MATH 160 or MATH 170) Area III core course in a lab science	3-5 4 4
Statistics	BUSSTAT 207 Statistical Techniques for Decision Making I BUSSTAT 208 Statistical Techniques for Decision Making II	3 3
Nonbusiness Electives	Must include courses in at least two of the three following disciplines: **Arts and Humanities** (art, foreign language, humanities, literature, music, philosophy, theatre arts) **Social Sciences** (anthropology, communication, criminal justice, ED-CIFS, geography, history, political science, psychology, social work, sociology,); one upper-division economics course may be counted in this total **Natural Sciences and Mathematics** (biological sciences, physical sciences, mathematics) No more than 3 credits may be in fitness activity courses. The total of Area III and nonbusiness electives must be at least 34 credits.	20-23
Major	See the requirements for your major in Chapter 12—Academic Programs and Courses.	

Table 10.12
Minimum Credit Requirements for the Bachelor of Fine Arts Degree (B.F.A.)

Content	Notes	Credits
ENGL 101-102	English Composition See "How to Meet the English Composition Requirement"	6
Area I	Area I core course in literature Area I core course chosen from HUM 207, 208 Introduction to Humanities; MUS 100 Introduction to Music; PHIL 101 Introduction to Philosophy; PHIL 201 Introduction to Logic; THEA 101 Introduction to Theatre; or a 201-202 foreign language.	6 3
Area II	Area II core course in history Area II core course in a second field Area II core course in any field	3 3 3
Area III	Area III core course in mathematics Area III core courses	3-5 4
Major	See the requirements for your major in Chapter 12—Academic Programs and Courses.	

To pursue a B.F.A. degree, you must obtain departmental approval. You must also maintain a 3.0 grade-point average in your art courses.

Table 10.13
Minimum Credit Requirements for the Bachelor of Science Degree in: Civil Engineering (B.S.C.E.), Construction Management (B.S.C.M.), Electrical Engineering (B.S.E.E.), Materials Science and Engineering (B.S.M.S.E.), and Mechanical Engineering (B.S.M.E.)

Content	Notes	Credits
ENGL 101-102	English Composition See "How to Meet the English Composition Requirement"	6
Area I	Area I core course in one field Area I core course in a second field Area I core course in any field	3 3 3
Area II	Area II core course in one field Area II core course in a second field Area II core course in any field	3 3 3
Area III	Area III core course in mathematics Area III core course in a second field Area III core course in any field	3-5 4 4
Area II or III Electives	These courses do not have to be selected from the approved core list, but are to be chosen from anthropology, biology, chemistry, communication, criminal justice, economics, ED-CIFS, engineering, geography, geosciences, history, mathematics, physical science, physics, political science, psychology, social work, and sociology.	9
Major	See the requirements for your major in Chapter 12—Academic Programs and Courses.	

NOTE: *All university core courses and technical and design electives must be approved by the student's advisor.

Table 10.14
Minimum Credit Requirements for the Bachelor of Music Degree (B.M.)

Content	Notes	Credits
ENGL 101-102	English Composition See "How to Meet the English Composition Requirement"	6
Area I	Area I core course in literature Area I core course in a second field Area I core course in any field	3 3 3
Area II	Area II core course in history Area II core course in a second field Area II core course in any field	3 3 3
Area III	Area III core course in mathematics **Option A:** One semester of a foreign language **Option B:** Area III core courses	3-5 4
Major	See the requirements for your major in Chapter 12—Academic Programs and Courses.	

To meet the Area III requirements, performance majors and theory/composition majors must select Option A. Music education majors must select either Option A or B..

Table 10.15
Minimum Credit Requirements for the Associate of Arts Degree (A.A.)

Content	Notes	Credits
ENGL 101-102	English Composition See "How to Meet the English Composition Requirement"	6
Area I	Area I core course in literature Area I core course in a second field Area I core course in a third field Area I core course in any field	3 3 3 3
Area II	Area II core course in history Area II core course in communication Area II core course in a third field Area II core course in any field	3 3 3 3
Area III	Area III core course in mathematics Area III core course in a second field Area III core course in any field	3-5 4 4
Area I or II Electives	These courses do not have to be selected from the approved core list, but are to be chosen from anthropology, art, communication, criminal justice, economics, ED-CIFS, foreign language, geography, history, humanities, literature, music, philosophy, political science, psychology, social work, sociology, and theatre arts.	9
Electives	Electives to total 64 credits	12-14

Education (ED-CIFS) and Social Work (SOCWRK) courses cannot be used to meet the statewide articulation agreement requirements in Area II. This program does comply with the Idaho Statewide Articulation Policy. Second degree seeking students are not eligible to earn a general Associate of Arts Degree.

Table 10.16
Minimum Credit Requirements for the Associate of Science* Degree (A.S.)

Content	Notes	Credits
ENGL 101-102	English Composition See "How to Meet the English Composition Requirement"	6
Area I	Area I core course in one field Area I core course in a second field Area I core course in a third field Area I core course in any field	3 3 3 3
Area II	Area II core course in communication Area II core course in a second field Area II core course in a third field Area II core course in any field	3 3 3 3
Area III	Area III core course in mathematics Area III core course in a second field Area III core course in any field	3-5 4 4
Area II or III Electives	These courses do not have to be selected from the approved core list, but are to be chosen from anthropology, biology, chemistry, communication, criminal justice, economics, ED-CIFS, engineering, geography, geosciences, history, mathematics, physical science, physics, political science, psychology, social work, and sociology.	9
Electives	Electives to total 64 credits	12-14

Education (ED-CIFS/EDUC/TEACH-ED) and Social Work (SOCWRK) courses cannot be used to meet the statewide articulation agreement requirements in Area II. This program does comply with the Idaho Statewide Articulation Policy. *The A.S. degrees awarded in criminal justice, health informatics and information management, and radiologic sciences do not meet the university core requirements and do not comply with the Idaho Statewide Articulation Policy. Second degree seeking students are not eligible to earn a general Associate of Science Degree.

Table 10.17
Minimum Credit Requirements for the Associate of Arts Degree (A.A., Social Science)

Content	Notes	Credits
ENGL 101-102	English Composition See "How to Meet the English Composition Requirement"	6
Area I	Area I core course in literature Area I core course in a second field Area I core course in a third field Area I core course in any field	3 3 3 3
Area II	Area II core course in history Area II core course in a second field Area II core course in a third field Area II core course in any field	3 3 3 3
Area III	Area III core course in mathematics Area III core courses 12 credits are recommended	3-5 4
Major Requirements	Social Science These courses are in addition to those listed under Area II and should include a fourth field. SOC 210 Computer Applications in Social Sciences is highly recommended.	12
Electives	Electives to total 64 credits	13-15

This program, leading to the A.A. degree, offers a curriculum focused on general education courses. Students completing the program will have met all core requirements, with the possible exception of one Area III course. This program does not comply with the Idaho Statewide Articulation Policy.

Table 10.18
Minimum Credit Requirements for the Associate of Applied Science Degree (A.A.S.)

Content	Notes	Credits
Technical Course Work	Credits must be in program elements that contain instruction directly related to a specific technical area to include mastering of skills and knowledge appropriate for the degree. Course content is determined through task analysis of the occupation for which the training is provided with assistance from local advisory committees. A minimum grade of C is required in technical education courses.	44
General Education	ENGL 101 and ENGL 102 or COMM 101 or APPACAD 111 6 Area I or II core course in any field 3 Area III core course in mathematics 3-5 Area I, II, or III core course in any field 3-4 *A minimum grade point average of '2.00' is required in all General Education course work.*	16
Major	See Chapter 13—Applied Technology Programs.	

Your last 15 credits must be taken at Boise State during regular academic sessions; of those 15 credits, at least 6 must be in technical course work required by your major. Students in apprenticeship programs and the fire service technology program are exempt from these requirements.

Table 10.19
Advanced Technical Certificate (A.T.C.)

Content	Notes	Credits
Technical Course Work	A credential awarded for completion of a minimum of 52 credit hours and mastering of specific competencies drawn from requirements of business/industry. Credits must be in program elements that contain instruction directly related to a specific technical area. Course content is determined through task analysis of the occupation for which the training is provided, with assistance from local advisory committees. A minimum of a C grade in the technical education course work is required.	52
Technical Support	You must have a minimum grade point average of 2.0 in all General Education (Technical Support) course work.	
Major	See Chapter 13—Applied Technology Programs.	

Table 10.20
Technical Certificate (T.C.)

Content	Notes	Credits
Technical Course Work	A credential awarded for completion of 27 credits and mastering of specific competencies drawn from the requirements of business/industry. Credits must be in program elements that contain instruction directly related to a specific technical area. Course content is determined through task analysis of the occupation for which the training is provided, with assistance from local advisory committees. A minimum of a C grade in the technical education course work is required.	27
Technical Support	You must have a minimum grade point average of 2.0 in all General Education (Technical Support) course work.	
Major	See Chapter 13—Applied Technology Programs.	

How to Read a Degree-Requirements Table

NOTE: The following information is provided as a supplement to the general degree requirements specified above and in Tables 10.9 through 10.20.

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:

- This chapter, Obtaining a Degree at Boise State University, explains the general requirements for all undergraduate degrees.
- The section of the catalog devoted to the department or other academic unit that offers the degree you are interested in obtaining. That section explains the specific requirements for the degree. You will find the section relevant to your degree in either Chapter 12—Academic Programs and Courses, or Chapter 13—Applied Technology Programs.

As you plan your academic career, you should be able to use your degree's table as a checklist, though 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
Bachelor of Science

Course Number and Title	Credits
ENGL 101-102 English Composition	6
Area I—see page 45 for list of approved courses	
Area I core course in one field	3
Area I core course in a second field	3
Area I core course in third field	3
Area I core course in any field	3
Area II—see page 45 for list of approved courses	
Area II core course in one field	3
Area II core course in second field	3
Area II core course in third field	3
Area II core course in any field	3
Area III—see page 45 for list of approved courses	
Area III core course in mathematics	3-5
Area III core course in a second field	4
Area III core course in any field	4
Area II or III electives These courses do not have to be selected from the approved core list, but are to be chosen from anthropology, biology, chemistry, communication, criminal justice, economics, ED-CIFS, engineering, geography, geosciences, history, mathematics, physical science, physics, political science, psychology, social work, and sociology.	9
SOC 201 Theories of Society SOC 210 Computer Applications in Social Science	3 4
SOCSCI 498 Senior Seminar	3
– 493 Internship or – 496 Independent Study	3
Methods course: COMM 302, GENDER 302, HIST 291, POLS 398, PSYC 321, SOC 311, or SOC 412	3
Upper-division first field Upper-division second field 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.	12 12
Statistics course: PSYC 295, POLS 298, or SOC 310	3-4
Upper-division electives to total 40 credits	3-10
Electives to total 128 credits	22-32
Total	128

The English Composition Requirements are described in detail on page 43.

Area II core requirements are explained on page 44. Some degrees require specific Area II courses, which fulfill the Area II and major requirement.

In each table, core requirements are followed by the additional specific courses required for the major, grouped by course prefix. Usually, 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.

Area I core requirements are explained on page 44.

Area III mathematics requirement is explained on page 43. Area III core requirements are explained on page 44.

These courses need to be from departments that teach Area II and III courses, but they do not have to be from the approved core lists.

You must complete at least 128 credits for any baccalaureate degree. A few majors fulfill this automatically, but for most majors you will need to take some additional electives. The only restrictions on these elective credits are those defined on page 52.

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, you will need to 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 in order 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 core requirements (discussed on page 44), though you may have to take core 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 Office, Math/Geosciences Building, Room 140, 208 426-3647. If you already have a baccalaureate degree and will be taking undergraduate courses, you need to apply through Undergraduate Admissions, Administration Building, Room 101, 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 are eligible to graduate, the Registrar's Office follows the requirements defined in a single edition of the university catalog. You may select any edition of the catalog, provided that the catalog was published and 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.

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 *Boise State University Schedule of Classes*.

Students must complete prerequisites listed in the catalog descriptions or *Boise State University Schedule of Classes* with a grade of C- or higher prior to enrolling in the course unless other 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

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 (42 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, DANTES credits, PEP credits, Credit for Prerequisites Not Taken, ACE Guide credits, etc.). No more than one-quarter may be earned in portfolio credit (32 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, PEP, etc.) are recorded with a grade of P (*Pass*) after you have enrolled in course work at Boise State University.

A brochure, *Credit for Prior Learning at Boise State University* (http://registrar.boisestate.edu/) provides a detailed list of all the types of prior learning for which you may receive 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.
- **PEP Exams** are similar to CLEP subject exams in that they test achievement in college-level subjects.
- **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 also 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. Listed below are the specific departmental credits available at Boise State for acceptable AP exam scores.

Table 10.21
Credit for Prior Learning

AP Exam Title	Score	Boise State Equivalent Course(s) & Number of Credits	
Art, History of	4	ART 102 Survey of Western Art II (3)	Area I
Biology	3	BIOL 100 Concepts of Biology (4)	Area III
Biology	4	BIOL 191 General Biology I (4)	Area III
Chemistry	*4	CHEM 111 General Chemistry (4)	Area III
Computer Science A/AB	4	COMPSCI 125 Intro to Computer Science I (4)	
Economics, Macro	4	ECON 201 Prin Macroeconomics (3)	Area II
Economics, Micro	4	ECON 202 Prin Microeconomics (3)	Area II
English	3, 4	ENGL 101 English Composition (3)	
English	5	ENGL 101-102 English Composition (6)	
European History	4	HIST 102 Western Civilization (3)	Area II
French, German, Spanish	3	101-102 First two semesters (8)	Area I
French, German, Spanish	4	101-201 First three semesters (12)	Area I
French, German, Spanish	5	101-202 First four semesters (16)	Area I
Gov't & Politics: U.S.	3	POLS 101 American Nat'l Gov't (3)	Area II
Latin Literature	3	LATIN 491 Adv Latin Tutorial (3)	
Mathematics: Calculus AB	3	MATH 170 Calculus I (4)	Area III
Mathematics: Calculus BC	3	MATH 170, 175 Calculus I, II (8)	Area III
Physics B	3	PHYS 111 General Physics (4)	Area III
Psychology	3	PSYC 101 General Psychology (3)	Area II
Statistics	3	MATH 254 Appl Stats with Computers (4)	Area III
United States History	3	HIST 111-112 U.S. History (6)	Area II

*In addition to the AP score, approval from the Department of Chemistry and Biochemistry is required.

- **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.

  Listed below are the specific departmental credits available at Boise State for acceptable IB exam scores. Credit for IB exams not listed will be granted on the recommendations of the chairman of the Department offering the course. Credit for IB exams will be recorded on the Boise State transcript, with a grade of "Pass," when the student is currently enrolled at Boise State University. **IB exams cannot be used to repeat a class already completed.**

Table 10.22
IB Examinations

IB Exam Title	Minimum Score for Credit	BSU Equivalent Course & Number of Credits	Core
Visual Art	4	ART 105 (3)	Area I
Biology	4 5 6	BIOL 100 (4) BIOL 191 (4) BIOL 191 & 192 (8)	Area III Area III Area III
Business & Management	4	MGMT 301, 334 & 410 (9)	
Computer Science	4	COMPSCI 119 (3)	
Economics	5	ECON 201 & 202 (6)	Area II
English A	4	Area I Core Literature course (3)	Area I
Geography	4 5	GEOG 102 (3) GEOG 100 & 102 (6)	Area II Area II
American History	4	HIST 111 & 112 (6)	Area II
World/European History	4	HIST 101, 102 & 121 (9)	Area II
Foreign Language A2 & B	4 5 6 7	101 (4) 101 & 102 (8) 101, 102 & 201 (12) 101, 102, 201 & 202 (16)	Area I Area I Area I Area I
Mathematics	4 6	MATH 147 (5) MATH 147 & Math 170 (9)	Area III Area III
Music	4	MUS 101 (3) General Elective Music Credits (3)	Area I
Physics	5	PHYS 111 & 112 (8)	Area III
Psychology	5	PSYC 101 (3)	Area II
Philosophy	5	PHIL 101 (3)	Area I
Social & Cultural Anthropology	5 6	ANTH 102 (3) ANTH 215 (3)	Area II Area II

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 (1984-85 edition or later). 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 (1982 edition or later).

Military Training Credit

You may receive credit for selected military training or experience. To do so, you must furnish the Registrar's Office with a copy of your S.M.A.R.T or A.A.R.T.S. 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.

Prior Learning Portfolio

Credit for prior learning experiences 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 BroncoWeb Help Center, Administration Building, Room 110, 208 426-4980. For further information on specific applications, contact the appropriate academic department.

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 BroncoWeb Help Center, Administration Building, Room 110. A $50.00 per course fee will be charged to challenge a test prepared by an academic department. For externally-prepared challenge exams, a $20.00 per course fee is paid to the University. Any 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

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, you must first have completed SPANISH 101 Elementary Spanish with a grade of C- or higher. If a course has a prerequisite, the prerequisite is listed in Chapter 12—Academic Programs and Courses or in the *Boise State University Schedule of Classes*.

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 BroncoWeb Help Center, Administration Building, Room 110. A $20 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.

Credit Limitations

Experiential Learning

You may earn up to one-third of your total credits required for graduation (42 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, DANTES credits, PEP credits, Credit for Prerequisites Not Taken, ACE Guide credits, etc.). No more than one-quarter may be earned in portfolio credit (32 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.**

Extension and Correspondence Courses

You may count toward graduation as many as 32 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 are courses offered by the Kinesiology department in general-interest sports and recreation activities, such as bowling, kayaking, tennis, and aerobics. You may count toward graduation as many as 8 credits of kinesiology activity courses. Other restrictions apply to kinesiology activity courses if you are seeking a Bachelor of Business Administration degree; for further information, see Table 10.11, above, in *Credit Requirements for Various Degrees*.

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 internships or cooperative-education programs that provide academic credit for on-the-job experience in an area of interest or in your major. You may apply up to 12 credits of internship toward your graduation requirements. Departments that offer internship and cooperative-education programs have faculty coordinators for these programs. More information about internships is available from your department.

Religion Courses

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

Service-Learning

Service-Learning provides you with a way to link community service to your course work. You can become involved by enrolling in a designated service-learning course which is linked to a specific section of an already established course. In the *Boise State University Schedule of Classes*, the service-learning lab will be designated by the base course prefix and number followed by the suffix **SL** (i.e. MKTG 307 base course; MKTG 307SL service-learning component). Through service-learning, you will receive course credit for participating in service opportunities that are intentionally designed to promote learning while helping meet human and community needs. You may take up to 3 service-learning credits in a semester. You may apply no more than 9 service-learning credits toward your degree. For more information, contact the Service-Learning Program office at 208 426-1004.

Many classes integrate service-learning as a teaching method. In these courses, service-learning is an integral part of the course work. These "fully integrated" service-learning classes are identified with a note indicating *Service-Learning* below the course name in the *Boise State University Schedule of Classes*. Classes using this model include a related service experience (sometimes required, sometimes optional) that is used as the basis for papers, class presentations, 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 Program office at 208 426-1004. There is no limit to the number of fully integrated service-learning courses you can take.

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/.

Double Majors

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

If you are earning two degrees at the same time, i.e., B.A. and B.S., you must complete an additional 30 credit hours.

Graduation Honors

Graduation honors are awarded to students receiving their first baccalaureate degree, according to the scale shown in Table 10.23 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 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 10.23
Graduation Honors

Cumulative Grade-Point Average	Honor
3.50 - 3.74	Cum Laude
3.75 - 3.94	Magna Cum Laude
3.95 - 4.00	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 BroncoWeb student account (http://broncoweb.boisestate.edu/). A non-refundable graduation application fee must be paid when applying.

A graduation evaluator will review your application and Degree Progress Report (DPR) after the 10th day of classes of the semester in which you intend to graduate. Upon review of your DPR, you will receive a letter notifying you if you are a valid candidate for graduation. To ensure your candidacy, please review your DPR on BroncoWeb 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).

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.

Technical Certificates, Other Certificates, and Minors

Chapter 11—Summary of Programs and Courses, lists the certificates and minors available at Boise State, along with the degrees offered by Boise State. A technical certificate is granted after a student completes a 9-month program or an 11-month program in the Larry G. Selland College of Applied Technology. Other 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 and Chapter 13—Applied Technology Programs.

NOTE: For a minor to be officially recorded on your transcript, you must complete all required course work in that minor **before** you receive your degree. Certificates are recorded on your transcript once your department or program notifies the Registrar's Office that you have completed all required course work. Minor certification endorsements are awarded by the State Department of Education and are not recorded on Boise State transcripts.

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. You may transfer all credits from a junior or community college, but only 70 credits may be used toward graduation.

Boise State accepts college-level credit for both academic and applied technology programs, 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 exempt from meeting the core requirements at Boise State if you:

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

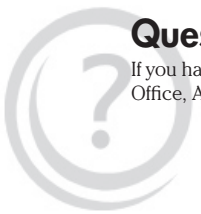
In those cases where a core class is also required as a particular major requirement, students must still complete the course in the major to earn the degree.

For purposes of counting lower- or upper-division credit required for graduation, the university uses the course number of the transferring institution, e.g. 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 general education 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 core requirements you must meet. For more information about core requirements, see the section titled "Core Requirements," above.

If you wish to transfer applied technology credits to academic programs at Boise State, you must count them as either major-requirement credits or elective credits (as determined by the appropriate academic department, following approval of the dean overseeing that department). You may also transfer academic credits from a regionally accredited institution and apply those credits to applied technology programs (as determined by the appropriate technical department, following approval of the dean overseeing that department). You may apply such credits only to the degree requirements stipulated by the department or program originally approving the transfer. If you switch from that department or program to another, the new department or program will evaluate the appropriateness of the transfer credits and decide whether to allow you to apply them toward the department or program requirements.



Questions About These Policies?

If you have questions about these policies, contact the Registrar's Office, Administration Building, Room 110, 208 426-4980.

Chapter 11—Summary of Programs and Courses

Tables 11.1 - 11.7 list degrees, majors, minors, certificates, and transfer programs offered at Boise State University in order by college and department. See Table 11.8 for an alphabetical listing of all degrees and majors offered by Boise State. *See the *Boise State University Graduate Catalog.*

Table 11.1 College of Arts and Sciences

Department	Program	Graduate	Degree	Minor	Page
Art	Art Education	M.A.	B.F.A.		*, 75
	Graphic Design		B.F.A.		76
	History of Art and Visual Culture		B.A.	Minor	76, 77
	Illustration		B.F.A.		77
	Pre-Architecture		Transfer		77
	Visual Art Emphasis areas (B.F.A.): Art Metals; Ceramics; Drawing and Painting; Interdisciplinary Art Studio; Photography; Printmaking; Sculpture		B.A., B.F.A.	Minor	73, 77
	Visual Arts	M.F.A.			*
Biological Sciences	Biology	M.A., M.S.	B.S.		*, 84
	Biology Emphasis areas: Botany; Clinical Laboratory Science; Ecology; Environmental Biology; Human Biolog;y Microbiology; Molecular and Cell Biology; Zoology		B.S.	Minor	84, 86
	Biology, Secondary Education		B.S.		86
	Pre-Forestry and Pre-Wildlife Management		Transfer		87
	Raptor Biology	M.S.			*
Chemistry and Biochemistry	Chemistry Emphasis areas: ACS certified Biochemistry; Biochemistry; Business; Forensics; General; Geochemistry; Pre-Medical; Professional		B.S.	Minor	92, 93
	Chemistry, Secondary Education		B.S.		93
English	Creative Writing	M.F.A.			*
	English, English Education	M.A.			*
	English, Linguistics Emphasis		B.A.		134
	English, Literature	M.A.			*
	English, Literature Emphasis		B.A.		135
	English, Rhetoric and Composition	M.A.			*
	English Teaching		B.A.		135
	English, Technical Communication Emphasis		B.A.	Certificate	136, 137
	English, Writing Emphasis		B.A.		136
	Technical Communication	M.A., Certificate			*
Geosciences	Earth Science /Earth Science Education	M.S.	B.S.		*, 145
	Geoarchaeology		B.A.		72
	Geology	M.S.			*
	Geology	M.S.			*
	Geophysics	M.S., Ph.D.	B.S.		*, 145
	Geosciences, Emphasis areas: Geology; Hydrology	Ph.D.	B.S.		144
	Geospatial/Geographical Information Analysis	Certificate		Minor	*, 146
	Hydrologic Sciences	M.S.			*
Mathematics	Applied Mathematics		B.S.	Minor	178, 180
	Mathematics	M.S.	B.A., B.S.	Minor	*, 179, 180
	Mathematics Education	M.S.			*
	Mathematics, Secondary Education		B.A., B.S.		179

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Table 11.1 College of Arts and Sciences (continued)					
Department	**Program**	**Graduate**	**Degree**	**Minor**	**Page**
Modern Languages and Literatures	Basque Studies			Minor	189
	Chinese Studies			Minor	189
	French		B.A.	Minor	186, 189
	French, Secondary Education		B.A.		187
	German		B.A.	Minor	187, 189
	German, Secondary Education		B.A.		187
	Japanese Studies			Minor	189
	Spanish		B.A.	Minor	188, 189
	Spanish, Secondary Education		B.A.		188
Music	Music		B.A.	Minor	197
	Music/Business		B.A.		197
	Music Education	M.M.	B.M.		*, 196
	Music, Composition		B.M.		195
	Music, Pedagogy	M.M.			*
	Music, Performance	M.M.	B.M.		*, 195
Philosophy	Philosophy		B.A.	Minor	206
Physics	Physics		B.S.	Minor	207, 208
	Physics, Secondary Education		B.S.		208
Theatre Arts	Theatre Arts Options: Dance; Design; Directing; Dramatic Writing; Performance; Stage Management		B.A.	Minor	235, 237
	Theatre Arts, Secondary Education		B.A.		236
	Dance Minor			Minor	237
Also Offered by CoAS	Biomedical Engineering			Minor	90
	Environmental Studies		B.A.	Minor	140, 141
	Interdisciplinary Studies	M.A., M.S.	B.A., B.S.		*, 158

Table 11.2 College of Business and Economics					
Department	**Program**	**Graduate**	**Degree**	**Minor**	**Page**
Accountancy	Accountancy	M.S.	B.B.A., B.A., B.S.	Minor	*, 67
	Accountancy, Internal Audit Option		B.B.A., B.A., B.S.		67
	Accountancy, Taxation	M.S.			*
	Accountancy/Finance		B.B.A., B.A., B.S.		68
	Internal Auditing			Minor	68
Economics	Business Economics		B.B.A.		127
	Economics		B.A.	Minor	127, 128
	Economics, Social Studies, Secondary Education		B.A.		128
Information Technology & Supply Chain Management	Information Technology Management		B.B.A., B.A., B.S.	Minor	155
	Supply Chain Management	Certificate	B.B.A., B.A., B.S.		155
International Business Program	International Business		B.B.A., B.A., B.S.	Minor	159, 160
Management	General Business		B.B.A., B.A., B.S.		171
	Management Options: Entrepreneurial; Human Resource Management		B.B.A., B.A., B.S.	Minor	170-172
Marketing and Finance	Finance		B.B.A., B.A., B.S.	Minor	173, 174
	Finance/Accountancy		B.B.A., B.A., B.S.		68
	Marketing		B.B.A., B.A., B.S.	Minor	174

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Table 11.2 College of Business and Economics (continued)					
Department	**Program**	**Graduate**	**Degree**	**Minor**	**Page**
Also Offered by CoBE	Business Minor			Minor	90
	Executive Master of Business Administration	M.B.A.			*
	Leadership Studies Minor			Minor	168
	Master of Business Administration	M.B.A.			*
	Master of Business Administration in Information Technology Management	M.B.A.			*

Table 11.3 College of Education					
Department	**Program**	**Graduate**	**Degree**	**Minor**	**Page**
Bilingual Education	Bilingual Education	M.Ed.			*
	Elementary Education- Bilingual/ESL		B.A.		82
	English as a Second Language	M.Ed.			*
Counselor Education	Addiction Studies	Certificate			*
	Counseling	M.A.			*
	Gerontological Studies	Certificate			*
Curriculum, Instruction, and Foundational Studies	Curriculum and Instruction	M.A., Ed.D.			*
	Curriculum and Instruction Physical Education Pedagogy Option	M.A.			*
	Educational Leadership	M.Ed.			*
	Elementary Education		B.A.		121
	Secondary/K-12 Teaching	Certificate			*
Educational Technology	Educational Technology	M.E.T., M.S.			*
	Online Teaching	Certificate			*
	School Technology Coordination	Certificate			*
	Technology Integration Specialist	Certificate			*
Kinesiology	Athletic Administration **Granted by Idaho State University	M.P.E.**			*
	Athletic Training		B.S.		164
	Exercise and Sport Studies Behavioral Studies Biophysical Studies Socio-historical Studies	M.S.			*
	Exercise Science, Biomechanics Emphasis		B.S.		161
	Exercise Science, Exercise Physiology Emphasis		B.S.		162
	Exercise Science, Fitness Evaluation and Programming Emphasis		B.S.		162
	Health Promotion		B.S.		163
	K-12 Physical Education		B.S.		160
Literacy	Reading	M.A.			*
Special Education and Early Childhood Studies	Early Childhood Studies	M.A., M.Ed.	A.A., B.A.		*, 233, 234
	Inclusive Practices			Certificate	232
	Special Education	M.A., M.Ed.	A.A., B.A.	Minor	*, 231, 232

Table 11.4 College of Engineering

Department	Program	Graduate	Degree	Minor	Page
Civil Engineering	Civil Engineering	M.Engr., M.S.	B.S.C.E.	Minor	*, 95, 96
	Hydrologic Sciences	M.S.			*
Computer Science	Computer Science	M.S.	B.S.	Minor	*, 113
Construction Management	Construction Management		B.S.C.M.	Minor	115
Electrical and Computer Engineering	Computer Engineering	M.Engr., M.S.			*
	Electrical and Computer Engineering	Ph.D.			*
	Electrical Engineering	M.Engr., M.S.	B.S.E.E.	Minor	*, 133
Instructional & Performance Technology	Human Performance Technology			Certificate	*
	Instructional & Performance Technology	M.S.			*
Materials Science and Engineering	Materials Science and Engineering	M.Engr., M.S.	B.S.M.S.E	Minor	*, 177
Mechanical and Biomedical Engineering	Mechanical Engineering	M.Engr., M.S.	B.S.M.E.		*, 182
	Biomedical Engineering			Minor	90

Table 11.5 College of Health Sciences

Department	Program	Graduate	Degree	Minor	Page
Community and Environmental Health	Addictions Studies	Certificate		Minor	108
	Environmental and Occupational Health		B.S.		103
	Health Informatics and Information Management		A.S., B.S.		104
	Health Science Emphasis areas: Environmental Health; General Research; Health Policy; Health Promotion; Health Services Leadership	M.H.S.			*
	Health Science Studies Emphasis areas: General Health Science; Science		B.S.		106
	Health Services Leadership	Certificate			*
	Pre-Chiropractic		Transfer		109
	Pre-Clinical Laboratory Science		Transfer		110
	Pre-Dental Hygiene		Transfer		110
	Pre-Dental Studies Options: Biology; Chemistry		B.S.		108
	Pre-Dietetics		Transfer		110
	Pre-Medical Studies Options: Biology; Chemistry		B.S.		108
	Pre-Occupational Therapy		Transfer		111
	Pre-Optometry		Transfer		111
	Pre-Pharmacy		Transfer		111
	Pre-Physical Therapy		Transfer		112
	Pre-Physician Assistant		Transfer		112
	Pre-Speech-Language Pathology		Transfer		112
	Pre-Veterinary Medicine		B.S.		109
Interdisciplinary Studies in Aging	Gerontology			Minor	69
Nursing	Nursing	M.N., M.S.N.	B.S.		*, 201
Radiologic Sciences	Radiologic Sciences		A.S., B.S.		217
Respiratory Care	Respiratory Care		A.S., B.S.		220
Also Offered by CoHS	Gerontological Studies	Certificate			*

Table 11.6 College of Social Sciences and Public Affairs					
Department	**Program**	**Graduate**	**Degree**	**Minor**	**Page**
Anthropology	Anthropology	M.A.	B.A.	Minor	*, 70
	Anthropology, Social Studies, Secondary Education		B.A.		71
	Applied Anthropology	M.A.A.			*
	Geoarchaeology		B.A.		72
	Native American Studies			Minor	71
Communication	Communication	M.A.	B.A.	Minor	*, 97, 100
	Communication, Secondary Education		B.A.		98
	Communication/English Emphasis areas: Humanities/Rhetoric; Journalism		B.A.		99
	Mass Communication/Journalism		B.A.		97
Criminal Justice	Criminal Justice	M.A.	A.S., B.A., B.S.		*, 118
History	Applied Historical Research	M.A.H.R.			*
	History	M.A.	B.A.	Minor	*, 149, 151
	History, Secondary Education		B.A.		150
	History, Social Studies, Secondary Education		B.A.		150
	Latin Language and Literature			Minor	151
Political Science	Political Science Emphasis areas: American Government and Public Policy; International Relations; Public Law and Political Philosophy		B.A., B.S.	Minor	210, 212
	Political Science, Social Science, Secondary Education		B.A., B.S.		211
Public Policy and Administration	Community and Regional Planning	Certificate			*
	Public Administration Environmental and Natural Resources Administration General Public Administration State and Local Government Policy and Administration	M.P.A.			*
Psychology	Psychology		B.A., B.S.	Minor	214, 215
	Psychology, Social Studies, Secondary Education		B.A.		214
Social Work	Gerontological Studies	Certificate			*
	Social Work	M.S.W.	B.A.		*, 223
Sociology	Mexican-American Studies			Minor	227
	Multi-Ethnic Studies		B.A.	Minor	227, 228
	Social Science		A.A., B.A., B.S.		224
	Sociology		B.A., B.S.	Minor	225
	Sociology, Social Science, Secondary Education		B.A.		226
	Sociology, Social Studies, Secondary Education		B.A.		226
Also Offered by SSPA	Canadian Studies			Minor	91
	Conflict Management	Certificate			*
	Dispute Resolution			Certificate	126
	Gender Studies			Minor	142
	General Studies		B.G.S.		143
	Military Science			Minor	185
	Paralegal Studies			Minor/Certificate	204
	Public Relations			Certificate	100

Table 11.7 Larry G. Selland College of Applied Technology		
Program	**Degree**	**Page**
Accounting Technology	A.T.C., A.A.S.	244
Administrative Office Technology	A.T.C., A.A.S.	244
Apprenticeship	A.A.S.	239
Auto Body	T.C., A.T.C., A.A.S.	240
Automated Industrial Technician	A.T.C., A.A.S.	241
Automotive Technology	T.C., A.T.C., A.A.S.	241
B.A.S., Applied Technology	B.A.S	81
Broadcast Technology	A.T.C., A.A.S.	242
Business Technology	T.C.	243
Child Care and Development	P.T.C., T.C., A.T.C., A.A.S.	249
Computer Network Technology	A.T.C., A.A.S.	247
Computer Peripheral Service	T.C.	248
Computer Service Technology	A.T.C., A.A.S.	248
Culinary Arts	P.T.C., T.C., A.T.C., A.A.S.	251
Dental Assisting	T.C., A.A.S.	252
Drafting Technology	T.C., A.T.C., A.A.S.	255
Electrical Lineworker	T.C.	256
Electronics Technology	A.T.C., A.A.S.	256
Environmental Control Technician	A.T.C., A.A.S.	258
Farm Business Management	P.T.C.	258
Fire Service Technology	A.A.S.	259
Heavy Duty Truck Technician	T.C., A.T.C., A.A.S	253
Heavy Equipment Technician	T.C., A.T.C., A.A.S	254
Horticulture Technology	T.C., A.T.C., A.A.S.	260
Idaho Professional Driver Training Program	P.T.C.	261
Industrial Electronics Technology	A.T.C, A.A.S.	261
Industrial Maintenance Technology	T.C.	262
Legal Office Technology	A.T.C., A.A.S	244
Machine Tool Technology	T.C., A.T.C., A.A.S.	263
Maintenance and Light Repair	P.T.C	241
Manufacturing Systems Technology	A.T.C., A.A.S.	264
Marketing/Management Technology	T.C., A.T.C., A.A.S.	246
Mechanical Welding Technician	A.T.C., A.A.S.	264
Network Technician	T.C.	247
Office Occupations	P.T.C.	247
PC/LAN Specialist	T.C.	248
Practical Nursing	A.T.C.	265
Recreational and Small Engine Repair Technology	T.C., A.T.C., A.A.S.	265
Refrigeration, Heating and Air Conditioning	T.C., A.T.C., A.A.S.	266
Semiconductor Technology	T.C., A.T.C., A.A.S.	267
Surgical Technology	T.C.	268
Welding and Metals Fabrication	T.C., A.T.C., A.A.S.	269
Wildland Fire Management	A.A.S.	259

Table 11.8 Degrees, Majors, Minors, Certificates, and Transfer Programs Offered at Boise State University

Program	Graduate Degree	Undergraduate Degree	Certificate, Minor or Transfer Program	Department	Page
Accountancy	M.S.	B.B.A., B.A., B.S.	Minor	Accountancy	*, 67
Accountancy, Internal Audit Option		B.B.A., B.A., B.S.		Accountancy	67
Accountancy, Taxation	M.S.			Accountancy	*
Accountancy/Finance		B.B.A., B.A., B.S.		Accountancy	68
Accounting Technology		A.T.C., A.A.S.		Applied Technology	244
Addictions Studies	Certificate		Minor	Community and Environmental Health	*, 108
Administrative Office Technology		A.T.C., A.A.S.		Applied Technology	244
Anthropology	M.A.	B.A.	Minor	Anthropology	*, 70
Anthropology, Social Studies, Secondary Education		B.A.		Anthropology	71
Applied Anthropology	M.A.A.			Anthropology	*
Applied Historical Research	M.A.H.R.			History	*
Applied Mathematics		B.S.	Minor	Mathematics	178, 180
Apprenticeship		A.A.S.		Applied Technology	239
Art Education	M.A.	B.F.A.		Art	*, 75
Athletic Administration **Granted by Idaho State University	M.P.E.**			Kinesiology	*
Athletic Training		B.S.		Kinesiology	164
Auto Body		T.C., A.T.C., A.A.S.		Applied Technology	240
Automated Industrial Technician		A.T.C., A.A.S.		Applied Technology	241
Automotive Technology		T.C., A.T.C., A.A.S.		Applied Technology	241
B.A.S., Applied Technology		B.A.S.		Applied Technology	81
Basque Studies			Minor	Modern Languages and Literatures	
Bilingual Education	M.Ed.			Bilingual Education	*
Biology	M.A., M.S.	B.S.		Biological Sciences	*, 84
Biology Emphasis areas: Botany; Clinical Laboratory Science; Ecology; Environmental Biology; Human Biology; Microbiology; Molecular and Cell Biology; Zoology		B.S.	Minor	Biological Sciences	84, 86
Biology, Secondary Education		B.S.		Biological Sciences	86
Biomedical Engineering			Minor	Mechanical and Biomedical Engineering	90
Broadcast Technology		A.T.C., A.A.S.		Applied Technology	242
Business			Minor	College of Business and Economics	90
Business Administration, Master of	M.B.A.			College of Business and Economics	*
Business Administration in Information Technology Management, Master of	M.B.A.			College of Business and Economics	*
Business Economics		B.B.A.		Economics	127
Business Technology		T.C.		Applied Technology	242
Canadian Studies			Minor	College of Social Sciences and Public Affairs	91
Chemistry Emphasis areas: ACS certified Biochemistry; Biochemistry; Business; Forensics; General; Geochemistry; Pre-Medical; Professional		B.S.	Minor	Chemistry and Biochemistry	92, 93
Chemistry, Secondary Education		B.S.		Chemistry and Biochemistry	93
Child Care and Development		P.T.C., T.C., A.T.C., A.A.S.		Applied Technology	249
Chinese Studies			Minor	Modern Languages and Literatures	189
Civil Engineering	M.Engr., M.S.	B.S.C.E.	Minor	Civil Engineering	*, 95, 96
Communication/English Humanities/Rhetoric Emphasis Journalism Emphasis		B.A.		Communication	99

Program	Graduate Degree	Undergraduate Degree	Certificate, Minor or Transfer Program	Department	Page
Communication	M.A.	B.A.	Minor	Communication	*, 97, 100
Communication, Secondary Education		B.A.		Communication	98
Community and Regional Planning	Certificate			Public Policy and Administration	*
Computer Engineering	M.Engr., M.S.			Electrical & Computer Engineering	*
Computer Network Technology		A.T.C., A.A.S.		Applied Technology	247
Computer Peripheral Service		T.C.		Applied Technology	248
Computer Science	M.S.	B.S.	Minor	Computer Science	*, 113
Computer Service Technology		A.T.C., A.A.S.		Applied Technology	248
Conflict Management	Certificate			College of Social Sciences and Public Affairs	*
Construction Management		B.S.C.M.	Minor	Construction Management	115
Counseling	M.A.			Counseling	*
Creative Writing	M.F.A.			English	*
Criminal Justice	M.A.	A.S., B.A., B.S.		Criminal Justice	*, 118
Culinary Arts		P.T.C., T.C., A.T.C., A.A.S.		Applied Technology	251
Curriculum and Instruction	M.A., Ed.D.			College of Education	*
Curriculum and Instruction Physical Education Pedagogy Option	M.A.			College of Education	*
Dance			Minor	Theatre Arts	237
Dental Assisting		T.C., A.A.S.		Applied Technology	252
Dispute Resolution			Certificate	College of Social Sciences and Public Affairs	126
Drafting Technology		T.C., A.T.C., A.A.S.		Applied Technology	255
Early Childhood Studies	M.A., M.Ed.	A.A., B.A.		Early Childhood Studies	*, 233, 234
Earth Science Education	M.S.	B.S.		Geosciences	*, 145
Economics		B.A.	Minor	Economics	127, 128
Economics, Social Studies, Secondary Education		B.A.		Economics	128
Educational Leadership	M.Ed.			College of Education	*
Educational Technology	M.E.T., M.S.			College of Education	*
Electrical and Computer Engineering	Ph.D.			Electrical & Computer Engineering	*
Electrical Engineering	M.Engr., M.S.	B.S.E.E.	Minor	Electrical & Computer Engineering	*, 131
Electrical Lineworker		T.C.		Applied Technology	256
Electronics Technology		A.T.C., A.A.S.		Applied Technology	256
Elementary Education		B.A.		Curriculum, Instruction, & Foundational Studies	121
Elementary Education, Bilingual/ESL		B.A.		Bilingual Education	82
English	M.A.			English	*
English as a Second Language	M.Ed.			Bilingual Education	*
English, English Education	M.A.			English	*
English, Linguistics Emphasis		B.A.		English	134
English, Literature Emphasis		B.A.		English	135
English, Rhetoric and Composition Emphasis	M.A.			English	*
English Teaching		B.A.		English	135
English, Technical Communication Emphasis	M.A.	B.A.	Certificate	English	*, 136, 137
English, Writing Emphasis		B.A.		English	136
Environmental and Occupational Health		B.S.		Community and Environmental Health	103
Environmental Control Technician		A.T.C., A.A.S.		Applied Technology	258
Environmental Studies		B.A.	Minor	College of Arts and Sciences	140, 141
Exercise and Sport Studies Behavioral Studies Biophysical Studies Socio-historical Studies	M.S.			Kinesiology	*

Program	Graduate Degree	Undergraduate Degree	Certificate, Minor or Transfer Program	Department	Page
Exercise Science, Biomechanics Emphasis		B.S.		Kinesiology	161
Exercise Science, Exercise Physiology Emphasis		B.S.		Kinesiology	162
Exercise Science, Fitness Evaluation & Programming Emphasis		B.S.		Kinesiology	162
Executive Master of Business Administration	M.B.A.			College of Business and Economics	*
Farm Business Management		P.T.C.		Applied Technology	258
Finance		B.B.A., B.A., B.S.	Minor	Marketing and Finance	173, 174
Fire Service Technology		A.A.S.		Applied Technology	259
French		B.A.	Minor	Modern Languages and Literatures	186, 189
French, Secondary Education		B.A.		Modern Languages and Literatures	187
Gender Studies			Minor	History	142
General Business		B.B.A., B.A., B.S.		Management	171
General Studies		B.G.S.		College of Social Sciences and Public Affairs	143
Geoarchaeology		B.A.		Anthropology/Geosciences	
Geology	M.S.			Geosciences	*
Geophysics	M.S., Ph.D.	B.S.		Geosciences	*, 145
Geosciences Emphasis areas: Geology; Hydrology	M.S., Ph.D.	B.S.		Geosciences	*, 144
Geospatial Information Analysis	Certificate		Minor	Geosciences	*, 146
German		B.A.	Minor	Modern Languages and Literatures	187, 189
German, Secondary Education		B.A.		Modern Languages and Literatures	187
Gerontological Studies	Certificate			College of Health Sciences	*
Gerontology			Minor	Interdisciplinary Studies in Aging	69
Graphic Design		B.F.A.		Art	76
Health Informatics and Information Management		A.S., B.S.		Community and Environmental Health	104
Health Promotion		B.S.		Kinesiology	163
Health Science Emphasis areas: Environmental Health; General Research; Health Policy; Health Promotion; Health Services Leadership	M.H.S.			College of Health Sciences	*
Health Science Studies Emphasis areas: General Health Science; Science		B.S.		Community and Environmental Health	104
Health Services Leadership	Certificate			College of Health Sciences	*
Heavy Duty Truck Technician		T.C., A.T.C., A.A.S		Applied Technology	253
Heavy Equipment Technician		T.C., A.T.C., A.A.S		Applied Technology	254
History	M.A.	B.A.	Minor	History	*, 149, 151
History, Secondary Education		B.A.		History	150
History, Social Studies, Secondary Education		B.A.		History	150
History of Art and Visual Culture		B.A.	Minor	Art	76, 77
Horticulture Technology		T.C., A.T.C., A.A.S.		Applied Technology	260
Human Performance Technology	Certificate			College of Engineering	*
Hydrologic Sciences	M.S.			Civil Engineering/Geosciences	*
Idaho Professional Driver Training Program		P.T.C.		Applied Technology	261
Illustration		B.F.A.		Art	77
Inclusive Practices			Certificate	Special Education	232
Industrial Electronics Technology		A.T.C, A.A.S.		Applied Technology	261
Industrial Maintenance Technology		T.C.		Applied Technology	262
Information Technology Management		B.B.A., B.A., B.S.	Minor	Information Technology & Supply Chain Management	155
Instructional and Performance Technology	M.S.			College of Engineering	*

Program	Graduate Degree	Undergraduate Degree	Certificate, Minor or Transfer Program	Department	Page
Interdisciplinary Studies	M.A., M.S.	B.A., B.S.		College of Arts and Sciences	*, 158
Internal Auditing			Minor	Accountancy	68
International Business		B.B.A., B.A., B.S.	Minor	International Business Program	159, 160
Japanese Studies			Minor	Modern Languages and Literatures	189
K-12 Physical Education		B.S.		Kinesiology	160
Latin Language and Literature			Minor	History	151
Leadership Studies			Minor	Management	168
Legal Office Technology		A.T.C., A.A.S		Applied Technology	244
Machine Tool Technology		T.C., A.T.C., A.A.S.		Applied Technology	263
Maintenance and Light Repair		P.T.C.		Applied Technology	241
Management Options: Entrepreneurial; Human Resource Mgmt		B.B.A., B.A., B.S.	Minor	Management	170, 171
Manufacturing Systems Technology		A.T.C., A.A.S.		Applied Technology	264
Marketing		B.B.A., B.A., B.S.	Minor	Marketing and Finance	174
Marketing/Management Technology		T.C., A.T.C., A.A.S.		Applied Technology	246
Mass Communication/Journalism		B.A.		Communication	97
Materials Science and Engineering	M.Engr., M.S.	B.S.M.S.E	Minor	Materials Science and Engineering	*, 177
Mathematics	M.S.	B.A., B.S.	Minor	Mathematics	*, 179, 180
Mathematics Education	M.S.			Mathematics	*
Mathematics, Secondary Education		B.A., B.S.		Mathematics	179
Mechanical Engineering	M.Engr., M.S.	B.S.M.E.		Mechanical and Biomedical Engineering	*, 182
Mechanical Welding Technician		A.T.C., A.A.S.		Applied Technology	264
Mexican-American Studies			Minor	Sociology	227
Multi-Ethnic Studies		B.A.	Minor	Sociology	227, 228
Music		B.A.	Minor	Music	197
Music, Composition		B.M.		Music	195
Music, Pedagogy	M.M.			Music	*
Music, Performance	M.M.	B.M.		Music	*, 195
Music Education	M.M.	B.M.		Music	*, 196
Music/Business		B.A.		Music	197
Native American Studies			Minor	Anthropology	71
Network Technician		T.C.		Applied Technology	247
Nursing	M.N., M.S.N.	B.S.		Nursing	*, 201
Office Occupations		P.T.C.		Applied Technology	247
Online Teaching	Certificate			Educational Technology	*
Paralegal Studies			Minor/Certificate	College of Social Sciences and Public Affairs	204
PC/LAN Specialist		T.C.		Applied Technology	248
Philosophy		B.A.	Minor	Philosophy	206
Physics		B.S.	Minor	Physics	207, 208
Physics, Secondary Education		B.S.		Physics	208
Political Science Emphasis areas: American Government and Public Policy; International Relations; Public Law and Political Philosophy		B.A., B.S.	Minor	Political Science	210, 212
Political Science, Social Science, Secondary Ed		B.A., B.S.		Political Science	211
Practical Nursing		A.T.C.		Applied Technology	265
Pre-Architecture			Transfer	Art	77
Pre-Chiropractic			Transfer	Community and Environmental Health	109
Pre-Clinical Laboratory Science			Transfer	Community and Environmental Health	110

Program	Graduate Degree	Undergraduate Degree	Certificate, Minor or Transfer Program	Department	Page
Pre-Dental Hygiene			Transfer	Community and Environmental Health	110
Pre-Dental Studies Options: Biology; Chemistry		B.S.		Community and Environmental Health	108
Pre-Dietetics			Transfer	Community and Environmental Health	110
Pre-Forestry and Pre-Wildlife Management			Transfer	Biological Sciences	86
Pre-Medical Studies Options: Biology; Chemistry		B.S.		Community and Environmental Health	108
Pre-Occupational Therapy			Transfer	Community and Environmental Health	111
Pre-Optometry			Transfer	Community and Environmental Health	111
Pre-Pharmacy			Transfer	Community and Environmental Health	111
Pre-Physical Therapy			Transfer	Community and Environmental Health	112
Pre-Physician Assistant			Transfer	Community and Environmental Health	112
Pre-Speech-Language Pathology			Transfer	Community and Environmental Health	112
Pre-Veterinary Medicine		B.S.		Community and Environmental Health	109
Psychology		B.A., B.S.	Minor	Psychology	214, 215
Psychology, Social Studies, Secondary Education		B.A.		Psychology	214
Public Administration Environmental and Natural Resources Admin General Public Administration State and Local Government Policy and Admin	M.P.A.			Public Policy and Administration	*
Public Relations			Certificate	Communication	
Radiologic Sciences		A.S., B.S.		Radiologic Sciences	217
Raptor Biology	M.S.			Biological Sciences	*
Reading	M.A.			College of Education	*
Recreational and Small Engine Repair Technology		T.C., A.T.C., A.A.S.		Applied Technology	265
Refrigeration, Heating and Air Conditioning		T.C., A.T.C., A.A.S.		Applied Technology	266
Respiratory Care		A.S., B.S.		Respiratory Care	220
School Technology Coordination	Certificate			Educational Technology	*
Secondary/K-12 Teaching	Certificate			Curriculum, Instruction, & Foundational Studies	*
Semiconductor Technology		T.C., A.T.C., A.A.S.		Applied Technology	267
Social Science		A.A., B.A., B.S.		Sociology	224
Social Work	M.S.W.	B.A.		Social Work	*, 223
Sociology		B.A., B.S.	Minor	Sociology	225
Sociology, Social Studies, Secondary Education		B.A.		Sociology	226
Sociology, Social Science, Secondary Education		B.A.		Sociology	226
Spanish		B.A.	Minor	Modern Languages and Literatures	188, 190
Spanish, Secondary Education		B.A.		Modern Languages and Literatures	189
Special Education	M.A., M.Ed.	B.A., A.A.	Minor	College of Education	*, 231, 232
Supply Chain Management	Certificate	B.B.A., B.A., B.S.		Information Technology & Supply Chain Management	*, 155
Surgical Technology		T.C.		Applied Technology	268
Technical Communication	Certificate			English	*
Technology Integration Specialist	Certificate			Educational Technology	*
Theatre Arts Options: Dance; Design; Directing; Dramatic Writing; Performance; Stage Management		B.A.	Minor	Theatre Arts	235, 237
Theatre Arts, Secondary Education		B.A.		Theatre Arts	236
Visual Art Emphasis areas (B.F.A. only): Art Metals; Ceramics; Drawing and Painting; Interdisciplinary Art Studio; Photography; Printmaking; Sculpture		B.A., B.F.A.	Minor	Art	73, 77

Program	Graduate Degree	Undergraduate Degree	Certificate, Minor or Transfer Program	Department	Page
Visual Arts	M.F.A.			Art	*
Welding and Metals Fabrication		T.C., A.T.C., A.A.S.		Applied Technology	269
Wildland Fire Management		A.A.S.		Applied Technology	259

*See the *Boise State University Graduate Catalog.*

A Typical Course Description

PHYS 211 PHYSICS I WITH CALCULUS (4-1-4) (F/S) (Area III). Kinematics, dynamics of particles, statics, momentum, rotational motion, gravitation, introductory wave motion, heat, and thermodynamics. PREREQ: MATH 170. COREQ: MATH 175, PHYS 211L.

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 tables 11.9 and 11.10 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 (i.e., ENGL 101-102); a comma between course numbers indicates that either course may be taken independently of the other (i.e., 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 (such as GEOPH 420 and GEOPH 575).

3) Course title The official title of the course.

4) Credits 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.

Classes in Applied Technology Programs are lecture, lab, and/or dedicated learning experiences, as shown in the examples below. In accordance with Idaho State Board of Education policy, one credit represents approximately 45 hours of student involvement per semester. A lecture credit combines 15 hours of lecture with approximately 30 hours of outside study. A lab credit combines 30 lab hours with approximately 15 hours of outside study. A dedicated learning credit involves 45 hours and may include supervised practical experience or faculty-guided instruction.

(1-0-1)	a one-hour lecture class for 1 credit
(0-2-1)	a two-hour laboratory class for 1 credit
(0-3-1)	a three-hour dedicated learning experience for 1 credit
(1-3-2)	a one-hour lecture class with three hours of dedicated learning for 2 credits

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)	spring semester and summer session only

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 core or diversity requirement) may be given in parentheses after the semester offer.

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.

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.

188 Honors Independent Study (1 to 3 credits). Honors students may earn credits in independent study, usually through directed reading or by completing a special project. Students may earn no more than three credits each academic session and no more than six credits during a single academic year. Before enrolling for independent study, a student must first obtain the approval of the dean or department chair, acting on the recommendation of the student's advisor.

239, 439 Foreign Study (number of credits varies). Foreign study credits are granted by academic departments that participate in academic programs abroad (see Chapter 9—Student

Services). Students who participate in an approved academic experience abroad for three credits will fulfill the diversity requirement. Contact the International Programs Office for details.

293, 493 Internship (number of credits varies). Internship credits are earned in supervised field work 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.

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 towards 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 four credits in a semester and no more than six credits during a single academic year, and no more than a total of nine 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

Tables 11.9 and 11.10, 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 11.9 Academic Course Prefixes

ACCT	Accountancy	ENVHLTH	Environmental Health	MATHED	Mathematics Education
ANTH	Anthropology	ENVSTD	Environmental Studies	MBA	Master of Business Administration
ARABIC	Arabic	FINAN	Finance	ME	Mechanical Engineering
ART	Art	FORLNG	Foreign Language	MGMT	Management
ARTHIST	Art History	FRENCH	French	MGMT-ENT	Management - Entrepreneurial
ASL	American Sign Language	GENDER	Gender Studies	MGMT-HR	Management - Human Resources
ATHLADM	Athletic Administration	GENBUS	General Business	MHLTHSCI	Master of Health Science
BASQUE	Basque	GENED	General Education	MILSCI	Military Science
BASQ-STD	Basque Studies	GENSCI	General Science	MIS	Management Information Systems
BIOL	Biology	GEOARCH	Geoarchaeology	MKTG	Marketing
BOT	Botany	GEOG	Geography	MSE	Materials Science and Engineering
BUSCOM	Business Communication	GEOPH	Geophysics	MUS	Music, General
BUSSTAT	Business Statistics	GEOS	Geoscience	MUS-APL	Music, Applied
CANSTD	Canadian Studies	GERMAN	German	MUS-ENS	Music, Ensemble
CE	Civil Engineering	GS	General Studies	MUS-PRV	Music, Private Lessons
CHEM	Chemistry	HIST	History	NATSTDEX	National Student Exchange
CHINESE	Chinese	HLTHINFO	Health Informatics	NURS	Nursing
CJ	Criminal Justice	HLTHST	Health Science	PARALGL	Law Specialty
CMGT	Construction Management	HONORS	Honors	PHIL	Philosophy
COMM	Communication	HUM	Humanities	PHYS	Physics
COMPSCI	Computer Science	HYDRO-UI	Hydrogeology	PHYSCI	Physical Science
COUN	Counseling	INTBUS	International Business	POLS	Political Science
DISPUT	Dispute Resolution	INTDIS	Interdisciplinary Studies	PSYC	Psychology
ECON	Economics	INTPRGM	International Student Programs	PUBADM	Public Administration
ED-BLESL	Bilingual Education	IPT	Instructional & Performance Technology	RADSCI	Radiologic Sciences
ED-CIFS	Curriculum, Instruction, & Foundational Studies	ITM	Information Technology Management	RESPCARE	Respiratory Care
				SCM	Supply Chain Management
ED-ECS	Early Childhood Studies	JAPANESE	Japanese	SOC	Sociology
ED-LTCY	Literacy	KINES	Kinesiology	SOCSCI	Social Science
ED-SPED	Special Education	KIN-ACT	Kinesiology-Activities	SOCWRK	Social Work
EDTECH	Educational Technology	LATIN	Latin	SPANISH	Spanish
ECE	Electrical & Computer Engineering	LEAD	Leadership Studies	SSPA	Social Sciences & Public Affairs
EMBA	Executive MBA	LIBSCI	Library Science	THEA	Theatre Arts
ENGL	English	LING	Linguistics	UNIV	University
ENGR	Engineering Science	MATH	Mathematics	ZOOL	Zoology

Table 11.10 Applied Technology Course Prefixes

APPACAD	Applied Academics	DRAFTEC	Drafting Technology	MRKTEC	Marketing/Management
APPREN	Apprenticeship	ELCTEC	Electronics Technology	OFFOCC	Office Occupations
AUTOBD	Auto Body	ELLINE	Electrical Lineworker	PN	Practical Nursing
AUTOTEC	Automotive Technology	FARMBUS	Farm Business Management	REFHTEC	Refrigeration, Heating & Air Conditioning
BASCI	Bachelor of Applied Science	FIRESV	Fire Service Technology		
BRDTEC	Broadcast Technology	HETEC	Heavy Equipment Technician	SEMITEC	Semiconductor Technology
BUSTEC	Business Technology	HLTHP	Health Professions	SMENGTEC	Recreational & Small Engine Repair Technology
CHLDCR	Child Care	HORTEC	Horticulture Technology		
CNET	Computer Network Technology	IMTEC	Industrial Maintenance Technology	SURGTEC	Surgical Technology
CORBLK	Core Block	IPDT	Idaho Professional Driver Training	TTEC	Truck Technician
CST	Computer Service Technology	MACHTEC	Machine Tool Technology	WELD	Welding and Metals Fabrication
CULART	Culinary Arts	MFGTEC	Manufacturing Systems Technology	WFMGMT	Wildland Fire Management
DNTASST	Dental Assisting				

Chapter 12—Academic Programs and Courses

Department of Accountancy

College of Business and Economics

Business Building, Room 214 Telephone 208 426-3461

Chair and Professor: Denise English. *Professors:* Bahnson, T. English, Koeppen, Lathen, Renner. *Associate Professors:* Krumwiede, Novak. *Assistant Professors:* Cowan. *Special Lecturers:* Christensen, Fox, Ilett, Shannon.

Degrees Offered

- B.B.A., B.A., B.S., and Minor in Accountancy
- B.B.A., B.A., B.S., and Minor in Accountancy, Internal Audit Option
- B.B.A., B.A., B.S., in Accountancy/Finance
- M.S. in Accountancy (See the *BSU Graduate Catalog.*)
- M.S. in Accountancy, Taxation Emphasis (See the *BSU Graduate Catalog.*)

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 in order 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.

Degree Requirements

Accountancy OR Accountancy, Internal Audit Option Bachelor of Business Administration	
Course Number and Title	**Credits**
ENGL 101-102 English Composition	6
Area I—see page 45 for list of approved courses	
Area I core courses	6
Area II—see page 45 for list of approved courses	
COMM 101 Fundamentals of Speech Communication	3
ECON 201 Principles of Macroeconomics	3
ECON 202 Principles of Microeconomics	3
Area II core course other than economics	3
Area III—see page 45 for list of approved courses	
Area III core course—(MATH 143 or MATH 147)	3-5
Area III core course—(MATH 160 or MATH 170)	4
Area III core course in a lab science	4

—continued—

Accountancy or Accountancy, Internal Audit Option (continued)	
Nonbusiness courses: Must include courses in at least two of the three following disciplines: **Arts and Humanities** (art, foreign language, humanities, literature, music, philosophy, theatre arts); **Social Sciences** (anthropology, communication, criminal justice, ED-CIFS, geography, history, political science, psychology, social work, sociology); **Natural Sciences and Mathematics** (biological sciences, physical sciences, mathematics). No more than 3 credits may be fitness/ kinesiology activity courses. **The total of Area III and nonbusiness electives must be at least 31 credits.**	18-20
ACCT 205 Introduction to Financial Accounting	3
ACCT 206 Introduction to Managerial Accounting	3
ACCT 302 Survey of Federal Income Taxation	3
ACCT 304, 306, 308 Intermediate Accounting I, II, III	9
ACCT 314 Cost Accounting	3
ACCT 350 Analysis, Design and Audit of Accounting Information Systems	3
ACCT 405 Internal Auditing	3
BUSCOM 201 Business Communication	3
BUSSTAT 207-208 Statistical Techniques for Decision Making I, II	6
Economics course chosen from ECON 301, 303, 310, or 317	3
FINAN 303 Principles of Finance	3
GENBUS 304-305 Law For Accountants I and II	6
GENBUS 450 Business Policies	3
MGMT 301 Leadership Skills	3
MKTG 301 Principles of Marketing	3
SCM 345 Principles of Operations Management	3
Accountancy Option	
Electives outside the Department of Accountancy	2
*Electives to total 128 credits	11
Total	128
Internal Audit Option	
ACCT 450 Information Systems Auditing	3
Accountancy, Finance, or Computer Information Systems courses chosen from ACCT 451, FINAN 410, FINAN 411, or ITM 315	9
**Electives to total 128 credits	1
Total	128
NOTES: *Please refer to the B.B.A., B.A., or B.S. requirements in Chapter 10 for explanation. Upper-division majors are assumed to have basic database, spreadsheet, and word processing skills. Students lacking these skills should take ITM 104, 105, 106.	

A 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 302 Survey of Federal Income Taxation	3
ACCT 304 Intermediate Accounting I	3
ACCT 314 Cost Accounting	3
Upper-division accountancy courses	6
Total	21
NOTE: These courses must be completed with a grade of C or better.	

A 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 304 Intermediate Accounting I	3
ACCT 350 Analysis, Design and Audit of Accounting Information Systems	3
ACCT 405 Internal Auditing	3
ACCT 450 Information Systems Auditing	3
Accountancy or Finance course chosen from: ACCT 314, ACCT 451, FINAN 410, or FINAN 411	3
Total	21
NOTE: These courses must be completed with a grade of C or better.	

An Accountancy/Finance dual major is much more powerful than the degrees in the individual disciplines. This integrative major overcomes the artificial distinctions between the disciplines and addresses the basic fact that finance and accounting have become increasingly intertwined in the business world. Compared to degrees in both Accountancy and Finance, the dual major simplifies the requirements to avoid overlap and students can still graduate with the minimum 128 credits.

Accountancy/Finance Bachelor of Business Administration	
Course Number and Title	**Credits**
ENGL 101-102 English Composition	6
Area I—see page 45 for list of approved courses	
Area I core courses	6
Area II—see page 45 for list of approved courses	
COMM 101 Fundamentals of Speech Communication	3
ECON 201 Principles of Macroeconomics	3
ECON 202 Principles of Microeconomics	3
Area II core course other than economics	3
Area III—see page 45 for list of approved courses	
Area III core course—(MATH 143 or MATH 147)	3-5
Area III core course—(MATH 160 or MATH 170)	4
Area III core course in a lab science	4
Nonbusiness courses: Must include courses in at least two of the three following disciplines: **Arts and Humanities** (art, foreign language, humanities, literature, music, philosophy, theatre arts); **Social Sciences** (anthropology, communication, criminal justice, ED-CIFS, geography, history, political science, psychology, social work, sociology); **Natural Sciences and Mathematics** (biological sciences, physical sciences, mathematics). No more than 3 credits may be fitness/kinesiology activity courses. **The total of Area III and nonbusiness electives must be at least 31 credits.**	18-20
ACCT 205 Introduction to Financial Accounting	3
ACCT 206 Introduction to Managerial Accounting	3
ACCT 302 Survey of Federal Income Taxation	3
ACCT 304, 306, 308 Intermediate Accounting I, II, III	9
ACCT 314 Cost Accounting	3
ACCT 350 Analysis, Design and Audit of Accounting Information Systems	3
BUSCOM 201 Business Communication	3
BUSSTAT 207-208 Statistical Techniques for Decision Making I, II	6
ECON 303 Intermediate Microeconomics	3

—continued—

Accountancy/Finance (continued)	
FINAN 303 Principles of Finance	3
FINAN 304 Spreadsheets and Databases	1
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 304-305 Law For Accountants I and II	6
GENBUS 450 Business Policies	3
MGMT 301 Leadership Skills	3
MKTG 301 Principles of Marketing	3
SCM 345 Principles of Operations Management	3
Total	128
NOTES: Upper-division majors are assumed to have basic spreadsheet, and word processing skills. Students lacking these skills should take ITM 104, 105.	

Course Offerings

See page 65 for a definition of the course-numbering system.

ACCT—ACCOUNTANCY

Lower Division

ACCT 205 INTRODUCTION TO FINANCIAL ACCOUNTING (3-0-3)(F/S). 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. PREREQ: ITM 104 and 105 or satisfactory completion of computer competency exam covering basic word processing and spreadsheet skills.

ACCT 206 INTRODUCTION TO MANAGERIAL ACCOUNTING (3-0-3)(F/S). 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.

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 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. Degree credit will be allowed for either ACCT 302 or ACCT 320. PREREQ: ACCT 206.

ACCT 304 INTERMEDIATE ACCOUNTING I (3-0-3)(F/S). Study of financial reporting, including the effects of economic, 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. Electronic spreadsheets are used as a tool in analyzing complex reporting problems. PREREQ: ACCT 206 and satisfactory completion of computer competency exam.

ACCT 306 INTERMEDIATE ACCOUNTING II (3-0-3)(F/S). Continuation of ACCT 304. Study of current and noncurrent liabilities, stockholders' equity, investments in securities, income taxes, pensions, and revenue recognition. PREREQ: ACCT 304 with a grade of C or better.

ACCT 308 INTERMEDIATE ACCOUNTING III (3-0-3)(F/S). Continuation of ACCT 306. Topics include leases, accounting changes, the statement of cash flows, financial statement analysis, governmental, and not-for-profit accounting. PREREQ: ACCT 306 with a grade of C or higher.

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 current cost management techniques and the use of information for decision-making. PREREQ: ACCT 206 and BUSSTAT 207.

ACCT 320 TAX FACTORS IN BUSINESS DECISIONS (3-0-3)(Offered when possible). Introduction to the impact of federal income taxes on business operating and financing decisions. Degree credit not allowed for both ACCT 320 and ACCT 302. PREREQ: ACCT 205.

ACCT 350 ANALYSIS, DESIGN, AND AUDIT OF 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 spreadsheet, database, flowchart, and accounting software. PREREQ: ACCT 304 and BUSCOM 201 or ENGL 202 and ITM 106 or satisfactory completion of computer competency exam covering basic database skills.

ACCT 405 INTERNAL AUDITING (3-0-3)(F/S). Study of the scope and purpose of auditing. Topics include risk analysis, internal control, ethics, operational auditing, sampling, fraud, and communication with auditees. PREREQ: ACCT 306.

ACCT 430 INTERNATIONAL ACCOUNTING (3-0-3)(F). An introduction to international accounting. Provides an overview of international financial reporting from the perspective of the user of financial information, not the preparer of the information. The impact of cultural forces on the evolution of accounting standards is emphasized. Degree credit not available for accountancy majors. PREREQ: ACCT 205 or PERM/INST.

ACCT 450-450G INFORMATION SYSTEMS AUDITING (3-0-3). Theory and application of auditing in a computerized accounting system environment. Course coverage emphasizes the standards by which information systems auditors should perform. Those standards address the evaluation of computer security, program development, program modification, computer processing, and source data controls. Current issues in auditing are addressed. Hands-on projects focusing on the review of security and the use of computer-assisted audit tools are utilized. PREREQ: ACCT 350, ACCT 405.

ACCT 451-451G 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. PREREQ: ACCT 314 and SCM 345.

ACCT 480 SELECTED ACCOUNTING TOPICS (3-0-3). Current accounting topics and issues are investigated in this class. PREREQ: PERM/INST.

Addictions Studies Minor—see Department of Community and Environmental Health

Interdisciplinary Studies in Aging

College of Health Sciences

Health Science Riverside, Room 122 Telephone 208 426-3832
http://aging.boisestate.edu
e-mail: ghill@boisestate.edu

Coordinator: Glenda Hill.

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 course work 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** *BIOL 107 Introduction to Human Biology **OR** *BIOL 227-228 Human Anatomy and Physiology BIOL 300 Biology of Aging	4-8 3
HLTHST 410 Health and Aging	3
*PSYC 101 General Psychology PSYC 213 Psychology of Aging	3 3
*SOC 101 Introduction to Sociology SOC 325 Sociology of Aging **OR** SOC 481 Sociology of Gender and Aging	3 3
SOCWRK 433 Aging: Social Policy and Programs	3
Gerontology elective credits: Electives to be approved by I.S.A. committee	6
Total	31-35

* These lower-division required courses meet core requirements.

American Government—see Department of Political Science
Applied Technology—see Bachelor of Applied Science

Department of Anthropology

College of Social Sciences and Public Affairs

Hemingway Western Studies Center, Room 55 Telephone 208 426-3023
e-mail: fbrigha@boisestate.edu Fax 208 426-4329

Chair and Professor: Mark Plew. *Associate Professor:* Hill. *Assistant Professors:* Streeter, Ziker. *Adjunct Assistant Professors:* House. *Special Lecturers:* Fruhlinger, Klikunas, Willson.

Degrees Offered

- B.A. and Minor in Anthropology
- B.A. in Anthropology, Social Studies, Secondary Education Emphasis
- B.A. in Geoarchaeology
- Minor in Native American Studies

Department Statement

The Department of Anthropology is central to the mandate by the State Board of Education that Boise State be the lead institution in social sciences and public affairs. Our 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, understanding and explaining cultural diversity, and to a full participation in public affairs. The Department of Anthropology offers two baccalaureate degree programs and a minor for teaching certification. The department also offers a liberal arts minor and a Native American studies minor.

Degree Requirements

Anthropology
Bachelor of Arts
Liberal Arts Option

Course Number and Title	Credits
ENGL 101-102 English Composition	6
Area I—see page 45 for list of approved courses	
Area I core course in literature	3
Area I core course in a second field	3
Area I core course in a third field	3
Area I core course in any field	3
Area II—see page 45 for list of approved courses	
ANTH 101 Physical Anthropology	3
ANTH 103 Introduction to Archaeology	3
Area II core course in history	3
Area II core course in a third field	3
Area III—see page 45 for list of approved courses	
MATH 124 Introduction to Mathematical Thought	4
Area III core course in a second field	4
Area III core course in any field	4
Foreign language (one year)	8
ANTH 102 Cultural Anthropology	3
ANTH 200 Kinship, Social Organization and Networks	3
ANTH 201 History and Theory in Anthropology	3
ANTH 492 Senior Practicum—Portfolio	1
Choose 2 of the following lower-division courses: ANTH 203 Old World Prehistory ANTH 209 Issues in Global Diversity ANTH 215 Cultural Concepts in Anthropology ANTH 216 Comparative Religion ANTH 219 New World Prehistory	6

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Anthropology, Liberal Arts Option (continued)	
Choose 2 of the following upper-division courses in archaeology and physical anthropology: ANTH 303 Human Paleoecology ANTH 312 Prehistory of North America ANTH 400 Hunters-Gatherers ANTH 401 Human Evolution and Paleoanthropology	6
Choose 2 of the following upper-division courses in cultural anthropology: ANTH 307 Indians of North America ANTH 314 Environmental Anthropology ANTH 425 Medical Anthropology ANTH 428 Urban Anthropology	6
Choose 2 of the following electives: ANTH 325 Human Variation ANTH 330 Osteology ANTH 402 Geoarchaeology ANTH 410 Expressive Culture ANTH 411 Language, Culture and Society ANTH 413 South American Culture History ANTH 414 Quaternary Paleontology ANTH 418 Ethnographic Methods ANTH 419 Prehistory of Mexico ANTH 430 Applied Anthropology ANTH 480 Seminar in Anthropology	6
SOC 210 Computer Applications in the Social Sciences SOC 310 Elementary Social Statistics or equivalent	3 3
Additional upper-division electives to total 40 credits Recommended elective: LING 305 Introduction to Linguistics.	17
Electives to total 128 credits	19
Total	128

The B.A. in Anthropology, Social Studies, Secondary Education Emphasis is designed to meet the revised state standards in Social Studies, provide students with multiple endorsements, and ensure upper- division coursework in the three disciplines most commonly taught at the secondary level. This multidisciplinary, professional degree entails a 30-hour major emphasis in Anthropology, 21 hours in Social Studies and government, and 12 hours in History. Students choosing this emphasis must:

1. complete a minimum of 30 credits in anthropology;
2. complete nine credits in U.S. history and three credits of world history for certification requirements;
3. complete a minimum of 21 credits in social studies (other than anthropology) including one three-credit course each in geography, psychology, economics and sociology, and six credits of American government and three credits of comparative government/politics;
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. Students must meet all knowledge, skill, and disposition requirements to remain in the program.

The 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.

Anthropology, Social Studies, Secondary Education Emphasis Bachelor of Arts

Course Number and Title	Credits
ENGL 101-102 English Composition	6
Area I—see page 45 for list of approved courses	
Area I core course in literature	3
Area I core course in a second field	3
Area I core course in a third field	3
Area I core course in any field	3
Area II	
ANTH 101 Physical Anthropology	3
HIST 111 U.S. History	3
HIST 112 U.S. History	3
POLS 101 American National Government	3
Area III—see page 45 for list of approved courses	
MATH 124 Introduction to Mathematical Thought	4
Area III core course in a second field	4
Area III core course in any field	4
Foreign Language (one year)	8
ANTH 102 Cultural Anthropology	3
ANTH 103 Introduction to Archaeology	3
ANTH 200 Kinship and Social Organization	3
ANTH 201 History and Theory in Anthropology	3
ANTH 492 Senior Practicum—Portfolio	1
Choose 2 of the following ANTH 303 Human Paleoecology ANTH 312 Prehistory of North America ANTH 400 Hunters-Gatherers ANTH 401 Human Evolution and Paleoanthropology	6
Choose 2 of the following ANTH 307 Indians of North America ANTH 314 Environmental Anthropology ANTH 425 Medical Anthropology ANTH 428 Urban Anthropology	6
Upper-division Anthropology elective	3
ED-CIFS 201 Foundations of Education	3
*ED-CIFS 301 Teaching Experience I	1
*ED-CIFS 302 Learning and Instruction	4
*ED-CIFS 401 Professional Year—Teaching Experience II	2
*ED-CIFS 405 Teaching Secondary Social Studies	3
*ED-LTCY 444 Content Literacy for Secondary Students	3
*ED-SPED 350 Teaching Students with Exceptional Needs at the Secondary Level	3
*Teaching Experience III/IV	16
NOTE: *You must apply for admission to secondary teacher education in order to enroll in these upper-division education courses. Completion of all requirements for graduation with a secondary education option may require more than 128 credit hours. See "Department of Curriculum, Instruction, and Foundational Studies" for more information.	
EDTECH 202 Educational Technology – Classroom Applications	3
U. S. History	3
World History (Any non-U.S. History course) (Must complete 9 credits in U.S. History and 3 in World History)	3
POLS 102 State and Local Government	3
Comparative Government chosen from: POLS 311, 321, 324, 325, 329, 333	3
Social Studies Requirement (Social Studies State Certification requires that at least one course be completed in **each** of the following disciplines: Economics, Geography, Psychology, Sociology)	12
Total	140

Anthropology Minor Liberal Arts Option

Course Number and Title	Credits
ANTH 101 Physical Anthropology	3
ANTH 102 Cultural Anthropology	3
ANTH 103 Introduction to Archaeology	3
Upper-division anthropology courses	12
Total	21

Anthropology, Social Science, Secondary Education Minor Option

Course Number and Title	Credits
ANTH 102 Cultural Anthropology	3
ANTH 103 Introduction to Archaeology	3
Upper-division anthropology courses	15
Total	21

Anthropology, Social Science Major, Minor Certification Endorsement

Course Number and Title	Credits
ANTH 101 Physical Anthropology	3
ANTH 102 Cultural Anthropology	3
Upper-division anthropology	15
Total	21

Native American Studies Minor

Course Number and Title	Credits
ANTH 102 Cultural Anthropology	3
ANTH 103 Introduction to Archaeology	3
Choose 15 credits from the following courses: ANTH 219 New World Prehistory ANTH 307 Indians of North America ANTH 312 Prehistory of North America ANTH 413 South American Culture History ANTH 419 Prehistory of Mexico HIST 341 The Indian in U.S. History Other Native American content course from any discipline, with advisor approval	15
Total	21

The B.A. in Geoarchaeology is an interdisciplinary baccalaureate degree program that integrates studies in anthropology, geosciences, and the other natural sciences. Geoarchaeology is the science of using the combined contributions of the earth sciences (e.g., petrology, geomorphology, stratigraphy, and geochemistry) and anthropology to assist in the environmental and cultural interpretation of the archaeological site. Employment opportunities include working with agency or industry in areas of cultural resource identification, protection, and management. The program also prepares students for graduate work in this discipline.

Geoarchaeology Bachelor of Arts	
Course Number and Title	**Credits**
ENGL 101-102 English Composition	6
Area I—see page 45 for list of approved courses	
Area I core course in literature	3
Area I core course in a second field	3
Area I core course in a third field	3
Area I core course in any field	3
Area II—see page 45 for list of approved courses	
ANTH 101 Physical Anthropology	3
ANTH 103 Introduction to Archaeology	3
POLS 101 American National Government	3
Area II core course in history	3
Area III	
Area III requirements are automatically met by specific courses included in the major requirements below.	
BIOL 191-192 General Biology I-II	8
CHEM 111-112 General Chemistry	9
ANTH 203 Old World Prehistory **OR** ANTH 219 New World Prehistory	3
ANTH 303 Human Paleoecology	3
ANTH 312 Prehistory of North America	3
ANTH 400 Hunter-Gatherers	3
ANTH 401 Human Evolution and Paleoanthropology	3
ANTH 402 Geoarchaeology	3
ANTH 414 Quaternary Paleontology	3
ENGL 201 Nonfiction Writing OR ENGL 202 Technical Communication	3
GEOG 360 Introduction to Geographic Information Systems	3
GEOS 100 Fundamentals of Geology	4
GEOS 200 Evolution of Western North America	4
GEOS 280 Field Geology	4
GEOS 300 Earth Materials	4
GEOS 313 Geomorphology	4
GEOS 315 Sedimentation and Stratigraphy	4
GEOS 324 Petrography	1
GEOS 482 Summer Field Camp **OR** ANTH 490 Archaeological Field School **OR** GEOARCH 493 Internship	3-6
MATH 147 Pre-Calculus	5
MATH 254 Applied Statistics with a Computer	4
Electives to total 40 upper-division credits	0-3
Electives to total 128 credits Any courses given at the University may be used as electives. Taking courses from the following list would give a student more depth in geoarchaeological studies: ANTH 201, ANTH 314; ANTH 325; ANTH 419, BIOL 323, BIOL 433, ENGL 304, GEOARCH 493, GEOS 425*, GEOS 451, GEOS 472, POLS 340, ZOOL 355.	12-15
Total	128
*Requires Math 170	

Course Offerings

See page 65 for a definition of the course-numbering system.

ANTH—ANTHROPOLOGY

Lower Division

ANTH 101 PHYSICAL ANTHROPOLOGY (3-0-3)(Area II). Introduction to the fossil evidence for human evolution, genetics, modern human variation, the study of living primates, and the relationship between biology and culture.

ANTH 102 CULTURAL ANTHROPOLOGY (3-0-3)(Area II)(Diversity). Introduction to the descriptions, analysis, and explanations of the different ways of life, or cultures, through which human groups have adapted to their environments. Explanation of the nature and characteristic of culture as an adaptive mechanism for human survival.

ANTH 103 INTRODUCTION TO ARCHAEOLOGY (3-0-3)(F/S)(Area II). 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 200 KINSHIP, SOCIAL ORGANIZATION AND NETWORKS (3-0-3)(F/S)(Diversity). Anthropological approaches to the study of human kinship, marriage, and family and discusses the relevance of these topics to broader issues in social organization. Topics may include sexual relationships, reproduction, incest, marriage, family, inheritance, and forms of cooperation in a range of societies. PREREQ: ANTH 102 or PERM/INST.

ANTH 201 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 102 and ANTH 103, or PERM/INST.

ANTH 203 OLD WORLD PREHISTORY (3-0-3)(F/S). Survey of the prehistoric archaeology and paleontology of human origins in the Old World. Includes comparisons of human adaptation on a continental scale focusing on the Oldowan, Acheulian, Mousterian, and the evidence for the behavior and biology of anatomically modern humans.

ANTH 209 ISSUES IN GLOBAL DIVERSITY (3-0-3)(F/S)(Diversity). Globalization has caused significant changes in the movement of people, capital, and resources. Explores the impact of these changes on the internal and external relationships between cultures. Population growth and decline, environmental impact and change, poverty and hunger, gender, ethnicity, religion, and resistance to globalization will be examined.

ANTH 215 CULTURAL CONCEPTS IN ANTHROPOLOGY (3-0-3). Introduction to concepts, theories, and methods utilized in cultural anthropology, emphasizing both humanistic and scientific orientations. PREREQ: ANTH 102.

ANTH 216 COMPARATIVE RELIGION (3-0-3)(F/S)(Diversity). 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.

ANTH 219 NEW WORLD PREHISTORY (3-0-3)(F/S). Prehistory of the Americas from first peopling to the arrival and impacts of European cultures. Highlights major prehistoric developments in Mexico, Peru, and in the eastern Woodlands and Southwest regions of North America. Emphasis on description of regional chronologies, environmental adaptations, horticultural origins, social complexity, and culture change. PREREQ: ANTH 103 or PERM/INST.

Upper Division

ANTH 303 HUMAN PALEOECOLOGY (3-0-3)(F/S). Examines the evidence for links between environments and people from the perspective of change during the human time-scale. Includes review of evidence for climate change, physical environments, and biotic populations with patterns of human adaptation. PREREQ: ANTH 103 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 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)(Diversity). Examines issues of conservation and natural resource management in small-scale and industrial societies. Strategies for resolving collective action problems on the local, regional, and global levels are discussed, as well as cases of conflicts of interest and paths of resolution between conservationists, indigenous peoples, and national governments. PREREQ: ANTH 102 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 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 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 GEOARCHAEOLOGY (3-0-3)(F/S). Examines theories and methods of the earth sciences to determine the location, age, and composition of the archaeological record. Emphasizes application of the natural sciences to study the human past by the study of sediments and ancient environments. PREREQ: ANTH 103 or PERM/INST.

ANTH 410 EXPRESSIVE CULTURE (3-0-3)(Alternate years). Explores the crucial part culture plays in artistic creation and the cultural patterning of expressive behavior. Concerned with the purposeful arrangement of forms, colors, sounds, language and body movements in ways that have meaning and are aesthetically appealing. PREREQ: ANTH 102 or PERM/INST.

ANTH 411 (LING 411) LANGUAGE, CULTURE AND SOCIETY (3-0-3)(S)(Alternate years). 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. ANTH 102, LING 305, or a foreign language recommended. This course may be taken for LING or ANTH credit, but not both.

ANTH 413 SOUTH AMERICAN CULTURE HISTORY (3-0-3)(F/S). Comprehensive review of the prehistoric and ethnographic diversity of South America. Emphasis on cultural diversity and continuity in prehistory, the time of early European contact and indigenous populations as known from late 19th and 20th century ethnographic studies. PREREQ: ANTH 103 or PERM/INST.

ANTH 414 QUATERNARY PALEONTOLOGY (3-0-3)(F/S). Fundamentals 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 or PERM/INST.

ANTH 418 ETHNOGRAPHIC METHODS (3-0-3)(F/S). A survey of ethnographic literature, approaches to ethnographic fieldwork and data gathering, creating field records through participant – observation and interviewing, sampling and mixing formal with informal methods, hypothesis development and testing, and experimenting with various approaches to ethnographic description. PREREQ: ANTH 102 or PERM/INST.

ANTH 419 PREHISTORY OF MEXICO (3-0-3)(F/S)(Even years). Survey of pre-Columbian cultures of Central America, with emphasis on Mexico. Special focus on the transition from Pre-Classic to Classic civilization, with consideration of the Maya and Aztec. PREREQ: ANTH 103 or PERM/INST.

ANTH 425 MEDICAL ANTHROPOLOGY: DISEASE, CULTURE, AND HEALING (3-0-3)(F/S)(Diversity). Introduces the student to the dynamic relationship that exists between health and culture. Topics include epidemiology, medical ecology, nutrition, ethnomedicine, the social meaning of illness, medical and cultural change, and alternative health models. Emphasis will be on a cross-cultural approach. Ethnographic data will be provided from cultures around the world. PREREQ: ANTH 102 or PERM/INST.

ANTH 428 URBAN ANTHROPOLOGY (3-0-3)(F/S)(Alternate years). Examines the varieties of cultural experiences within urban settings. Will include cross-cultural comparisons of urban cultures, with a focus on such topics as population pressure and cultural changes; ethnic and occupational uses of urban space; and understanding the built environment and its reflection of cultural values. PREREQ: ANTH 102 or PERM/INST.

ANTH 430 APPLIED ANTHROPOLOGY (3-0-3)(F/S). Examination of the use of anthropology to solve human problems. How applied anthropologists use the knowledge, skills, and perspective of their discipline to help solve human problems and facilitate change. The relationship between theory and application is stressed and the use of anthropology in nonacademic settings. PREREQ: ANTH 102 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: ANTH 102 or 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). A capstone course designed to help seniors develop and construct their senior portfolio. Included in the course is the departmental "portfolio review." (Pass/Fail.) PREREQ: 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.

Department of Art

College of Arts and Sciences

Liberal Arts Building, Room 252 Telephone 208 426-1230
http://www.boisestate.edu/art/

Chair and Associate Professor: Richard Young. *Professors:* Budde, Carman, McNeil, Shurtleff-Young, Taylor. *Associate Professors:* Bacon, Blakeslee, Elder, Fox, Francis, Turner. *Assistant Professors:* Dinkar, Fitterer, Keys, Mitroi, Neri, Sadler, Scott, Smulovitz, Wiatr, Wood. *Special Lecturer:* Carver.

Degrees Offered

- B.A. and Minor in History of Art and Visual Culture
- B.A., B.F.A., and Minor in Visual Art
- B.F.A. in Art Education K-12, 6-12
- B.F.A. in Graphic Design
- B.F.A. in Illustration
- M.A. in Art Education (See the *BSU Graduate Catalog.*)
- M.F.A., Visual Arts (See the *BSU Graduate Catalog.*)
- Pre-Architecture Program

Degree Requirements

Visual Art Bachelor of Arts	
Course Number and Title	**Credits**
ENGL 101-102 English Composition	6
Area I—see page 45 for list of approved courses	
Area I core course in literature	3
Area I core course in a second field	3
Area I core course in a third field (ARTHIST 101 applies)	*
Area I core course in any field (ARTHIST 102 applies)	*
Area II—see page 45 for list of approved courses	
Area II core course in history	3
Area II core course in a second field	3
Area II core course in a third field	3
Area II core course in any field	3
Area III—see page 45 for list of approved courses	
Area III core course in mathematics	3-5
Area III core course in a second field	4
Area III core course in any field	4
ART 107, 108 Art Foundations I and II	6
ART 109 Foundation Drawing	3
ART 398 Seminar	3
*ARTHIST 101, 102 Survey of Western Art I and II	6
Three 2-dimensional courses chosen from: ART 117 Introduction to Typography and Graphic Design ART 209 Introduction to Printmaking ART 212 Drawing I ART 215 Painting I ART 251 Introduction to Creative Photography	9
Two 3-dimensional courses chosen from: ART 221 Art Metals: Intro to Metalsmithing ART 225, 226 Ceramics ART 231 Beginning Sculpture 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 128 credits	21-23
Total	128

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
Bachelor of Fine Arts

Course Number and Title	Credits
ENGL 101-102 English Composition	6
Area I—see page 45 for list of approved courses	
Area I core courses in literature	6
Area I core course chosen from HUM 207, HUM 208, MUS 100, PHIL 101, PHIL 201, THEA 101, or Modern Language 201, 202	3
Area II—see page 45 for list of approved courses	
Area II core course in history	3
Area II core course in a second field	3
Area II core course in any field	3
Area III—see page 45 for list of approved courses	
Area III core course in mathematics	3-5
Area III core courses	4
ART 107, 108 Art Foundations I and II	6
ART 109 Foundation Drawing	3
ART 398 Seminar	3
ART 410 Professional Practices in Art	3
ARTHIST 101, 102 Survey of Western Art I and II	6
Three 2-dimensional courses chosen from: ART 117 Introduction to Typography and Graphic Design ART 209 Introduction to Printmaking ART 212 Drawing I ART 215 Painting I ART 251 Introduction to Creative Photography See your area of emphasis requirements for any specific course recommendations	9
Two 3-dimensional courses chosen from: ART 221 Art Metals ART 225, 226 Ceramics ART 231 Beginning Sculpture Two disciplines must be represented See your area of emphasis requirements for any specific course recommendations	6
Upper-division art history (ARTHIST) 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.	
Art Metals Emphasis	
ART 221 Art Metals: Intro to Metalsmithing	-
ART 225 Ceramics **OR** ART 226 Ceramics	3
ART 231 Beginning Sculpture	-
ART 303 Art Metals: Multiples **OR** ART 304 Art Metals: Color **OR** ART 306 Contemporary Ideas in Metalsmithing **OR** ART 307 Contemporary Ideas in Art Metals	9
ART 419 Studio in Art Metals Requires 3 credits in Ceramics and 3 credits in Sculpture	3
ART or ARTHIST electives	14
Upper-division ART or ARTHIST electives	9
Upper-division electives to total 40 credits	10
Electives to total 128 credits	5-7

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Visual Art, Bachelor of Fine Arts (continued)

Ceramics Emphasis	
ART 221 Art Metals: Intro to Metalsmithing	-
ART 225 Ceramics	-
ART 226 Ceramics	3
ART 231 Beginning Sculpture	3
ART 325 Studio in Ceramics	6
ART 425 Studio in Ceramics Requires 3 credits in Art Metals and 3 credits in Sculpture	6
ART or ARTHIST electives	14
Upper-division ART or ARTHIST electives	6
Upper-division electives to total 40 credits	10
Electives to total 128 credits	5-7
Drawing and Painting Emphasis	
ART 209 Introduction to Printmaking	-
ART 212 Drawing I	-
ART 215 Painting I	-
ART 251 Introduction to Creative Photography	-
ART 311 Drawing II	3
ART 312 Human Presence: Drawing	3
ART 315 Painting II	3
ART 319 Human Presence: Painting	3
ART 411 Studio I	3
ART 415 Studio II	6
ARTHIST 302 History of Twentieth Century European Art **OR** ARTHIST 371 History of Twentieth Century American Art **OR** ARTHIST 451 Contemporary Concepts In Art	3
ART or ARTHIST electives	6
Upper-division ART or ARTHIST electives	9
Electives to total 128 credits	14-16
Interdisciplinary Art Studio Emphasis	
Course from first discipline	-
Courses from first discipline	6
Upper-division courses from first discipline	6
Course from second discipline	-
Courses from second discipline	6
Upper-division courses from second discipline	6
ART or ARTHIST electives	3
Upper-division ART or ARTHIST electives	8
Upper-division electives to total 40 credits	10
Electives to total 128 credits	5-7
Photography Emphasis	
ART 251 Introduction to Creative Photography	-
ART 341 Creative Photography	3
ART 342 Digital Photography	3
ART 344 Creative Photography, Color Printing	3
ART 349 Alternative Photographic Processes	3
ART 444 Advanced Photography	6
ARTHIST 373 History of Photography	3
ART or ARTHIST electives	11
Upper-division ART or ARTHIST electives	6
Upper-division electives to total 40 credits	4
Electives to total 128 credits	11-13

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Visual Art, Bachelor of Fine Arts (continued)	
Printmaking Emphasis	
ART 209 Introduction to Printmaking	-
ART 309 Printmaking	6
ART 409 Studio in Printmaking	6
ART 311 Drawing II **OR** ART 315 Painting II **OR** ART 325 Studio in Ceramics **OR** ART 334 Assembled Form **OR** ART 341 Creative Photography **OR** ART 344 Creative Photography, Color Printing **OR** ART 361 Illustration **OR** ART 409 Studio in Printmaking **OR** ART 411 Studio I **OR** ART 415 Studio II	6
ART or ARTHIST electives	14
Upper-division ART or ARTHIST electives	6
Upper-division electives to total 40 credits	4
Electives to total 128 credits	11-13
Sculpture Emphasis	
ART 221 Art Metals: Intro to Metalsmithing	3
ART 225 Ceramics **OR** ART 226 Ceramics	- -
ART 231 Beginning Sculpture	-
ART 331 Carving **OR** ART 332 Figure Sculpture **OR** ART 334 Assembled Form **OR** ART 339 Cast Form	6
ART 431 Studio in Sculpture Requires 3 credits in Art Metals and 3 credits in Ceramics	6
ART or ARTHIST electives	17
Upper-division ART or ARTHIST electives	6
Upper-division electives to total 40 credits	10
Electives to total 128 credits	5-7
Total	128

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 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
ENGL 101-102 English Composition	6
Area I—see page 45 for list of approved courses	
Area I core courses in literature	6
Area I core course chosen from HUM 207, HUM 208, MUS 100, PHIL 101, 201, THEA 101, or Modern Language 201, 202	3
Area II—see page 45 for list of approved courses	
ED-CIFS 201 Foundations of Education	3
Area II core course in history	3
Area II core course in any field	3
Area III—see page 45 for list of approved courses	
Area III core course in mathematics	3-5
Area III core courses	4
ART 107, 108 Art Foundations I and II	6
ART 109 Foundation Drawing	3
ART 209 Introduction to Printmaking	3
ART 212 Drawing I	3
ART 215 Painting I	3
ART 225 Ceramics **OR** ART 226 Ceramics	3
ART 231 Beginning Sculpture	3
ART 300 Multicultural Arts	3
ART 315 Painting II	3
ART 322 Elementary School Art Methods for Art Education Majors	4
ART 351 Art Methods in Secondary Schools	4
ART 398 Seminar	3
ART 410 Professional Practices in Art	3
One course chosen from: ART 103 Survey of Far Eastern Art ART 221 Art Metals: Intro to Metalsmithing ART 251 Intro to Creative Photography	3
ARTHIST 101, 102 Survey of Western Art I & II	6
ARTHIST 301 History of 20th Century European Art **OR** ARTHIST 371 History of 20th Century American Art	3
Upper-division art history (ARTHIST)	3
Area of Emphasis Requirement: 14 to 20 credits in one art discipline. Students emphasizing painting/watercolor or 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. Required courses count towards the area of emphasis (e.g. the 9 credits required in painting/watercolor can be applied to the 20 credit total).	5-14
*ED-CIFS 302 Learning and Instruction	4
*ED-CIFS 401 Professional Year—Teaching Experience II	2
*ED-LTCY 444 Content Literacy for Secondary Students	3
*ED-SPED 350 Teaching Students with Exceptional Needs at the Secondary Level	3
*Teaching Experience III/IV NOTE: *You must apply for admission to secondary teacher education in order to enroll in these upper-division education courses. Completion of all requirements for graduation with a secondary education option may require more than 128 credit hours. See "Department of Curriculum, Instruction, and Foundational Studies" for more information.	16
EDTECH 202 Educational Technology – Classroom Applications	3
Electives to total 128 credits	0-2
Total	128-135

Art Minor Certification Endorsement	
Course Number and Title	**Credits**
One art history	3
Two art foundations	6
Two drawing	6
One painting	3
One ceramics, photography, printmaking, multicultural arts, or art metals	2-3
ART 322 Elementary School Art Methods for Art Education Majors	4
ART 351 Secondary School Art Methods	4
Total	28-29

Minimum Criteria for Upper-Division Admission in Graphic Design

The major in graphic design requires admission to upper-division standing in graphic design by application to the art department. The upper-division program begins with ART 388. Before applying to upper division in graphic design, students pursuing the B.F.A. are required to meet the following criteria:

1. Admission to Boise State University.
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, ART 212 Drawing I, ART 117 Introduction to Typography and Graphic Design, ART 118 Digital Tools for Graphic Design and Illustration, and ART 203 Graphic Design Studio I, ART 204 Graphic Design Studio II (completed or in progress during the semester of application), ART 251 Introduction to Creative Photography (completed or in progress during the semester of application).
3. Completion of 50 hours of course work (includes courses in progress).
4. Cumulative GPA of 2.5, art GPA of 3.0.

Your application for upper-division standing must include the following:

1. A letter of application and a copy of your transcript, submitted by March 1.
2. A portfolio that meets the criteria and requirements for admittance into the upper-division program in graphic design. You should submit selected works drawn primarily from ART 117, 118, 203, and 204. Because upper-division space is limited, your portfolio will be ranked with the others submitted. For you to be admitted to upper-division standing, your portfolio must receive a grade of B or better in the Portfolio Review.
3. An essay of 500–1000 words, reflecting your observations and insights relevant to questions in art and design. Language skills and originality will be evaluated.

No later than the first day of classroom instruction in March, you must submit these to a designated representative of the program in graphic design.

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.

Graphic Design Bachelor of Fine Arts	
Course Number and Title	**Credits**
ENGL 101-102 English Composition	6
Area I—see page 45 for list of approved courses	
Area I core course in literature	6
Area I core course chosen from HUM 207, HUM 208, MUS 100, PHIL 101, 201, THEA 101, or Modern Language 201, 202	3
Area II—see page 45 for list of approved courses	
Area II core course in history	3
Area II core course in a second field	3
Area II core course in any field	3
Area III—see page 45 for list of approved courses	
Area III core course in mathematics	3-5
Area III core courses	4

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Graphic Design (continued)	
ART 107, 108 Art Foundations I and II	6
ART 109 Foundation Drawing	3
ART 117 Introduction to Typography and Graphic Design	3
ART 118 Digital Tools for Graphic Design and Illustration	3
ART 203, 204, 388, 488 Graphic Design Studio I, II, III, IV	12
ART 212 Drawing I	3
ART 251 Introduction to Creative Photography ART 251 must be taken by the end of the sophomore year.	3
ART 312 Human Presence: Drawing	3
ART 341 or 344 Creative Photography	3
ART 398 Seminar	3
ARTHIST 101, 102 Survey of Western Art I and II	6
9 additional credits at the 300-level selected from ART 305, ART 309, ART 341, ART 344, ART 361, ART 362, ART 388 (repeat)	9
12 additional credits at the 400-level selected from ART 400, ART 409, ART 410, ART 444, ART 461, ART 462, ART 483, ART 488 (repeat), ART 493, ART 495	12
Upper-division art history (ARTHIST)	3
Sculpture, ceramics, art metals	3
100- level or higher sequence in modern language	8
Upper-division electives to total 40 credits	4
Electives to total 128 credits	8-10
Total	128

History of Art and Visual Culture Bachelor of Arts	
Course Number and Title	**Credits**
ENGL 101-102 English Composition	6
Area I—see page 45 for list of approved courses	
Area I core courses in a foreign language	6-8
Area I core course in literature	3
Area I core course in a third field (ARTHIST 101/102 may apply)	*
Area II—see page 45 for list of approved courses	
Area II core course in history (Chosen from HIST 101,102,121,201,202)	6
Area II core course in a second field	3
Area II core course in a third field	3
Area III—see page 45 for list of approved courses	
Area III core course in mathematics	3-5
Area III core course in a second field	4
Area III core course in any field	4
ART 107, 108 Art Foundations I and II	6
ART 410 Professional Practices in Art **OR** ARTHIST 450 Art History Practicum	3
ARTHIST 101, 102 Survey of Western Art I and II	6
ARTHIST 452 Methods and Theory in Art History	3
ARTHIST 499 Art History Seminar	3
One Ancient to Medieval Art course chosen from: ARTHIST 335, 336, 337, or 338	3
One Renaissance to Baroque Art course chosen from: ARTHIST 354, 355, 365, or 366	3
One Modern Art course chosen from: ARTHIST 301, 302, or 371	3
One nonWestern Art course chosen from: ARTHIST 103, 352, 356, 357, 359, or relevant special topics course	3

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History of Art and Visual Culture (continued)	
400- level Art History ARTHIST course	3
ARTHIST electives (regional or period emphasis)	9
History or Anthropology electives (complementing regional or period emphasis)	6
Upper-division electives to total 40 credits	1-19
Electives to total 128 credits	18-38
Total	128

To pursue a B.F.A. in Illustration you must obtain department approval, maintain a minimum 3.0 GPA in all ART and ARTHIST courses, and earn a C or better in all ART and ARTHIST courses.

Illustration Bachelor of Fine Arts	
Course Number and Title	**Credits**
ENGL 101-102 English Composition	6
Area I—see page 45 for list of approved courses	
Area I core courses in literature	6
Area I core course chosen from HUM 207, HUM 208, MUS 100, PHIL 101, 201, THEA 101, or Modern Language 201, 202	3
Area II—see page 45 for list of approved courses	
Area II core course in history	3
Area II core course in a second field	3
Area II core course in any field	3
Area III—see page 45 for list of approved courses	
Area III core course in mathematics	3-5
Area III core courses	4
ART 107, 108 Art Foundations I and II	6
ART 109 Foundation Drawing	3
ART 118 Digital Tools for Graphic Design and Illustration	3
ART 209 Introduction to Printmaking	3
ART 212 Drawing I	3
ART 215 Painting I	3
ART 251 Introduction to Creative Photography	3
ART 311 Drawing II	3
ART 312 Human Presence: Drawing	3
ART 315 Painting II **OR** ART 319 Human Presence: Painting	3
ART 361, 362, 461, 462 Illustration	12
ART 398 Seminar	3
ART 410 Professional Practices in Art **OR** ART 495 Portfolio Development	3
ART 465 Senior Project in Illustration	3
ARTHIST 101, 102 Survey of Western Art I and II	6
Art history (advisable to take minimum 3 credits at upper division level)	6
Sculpture, ceramics, or art metals	3
Upper-division electives to total 40 credits	16-19
Electives to total 128 credits	7-12
Total	128

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: ARTHIST 335, 336, 337, or 338	3
One Renaissance to Baroque Art course chosen from: ARTHIST 354, 355, 365, or 366	3
One Modern Art course chosen from: ARTHIST 301, 302, or 371	3
One nonWestern Art course chosen from: ARTHIST 103, 352, 356, 357, 359 or relevant special topics course	3
ARTHIST 452 Methods and Theory in Art History **OR** ART 398 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

Pre-Architecture Program

Boise State University offers courses that can be used for a 2 to 2 1/2 year pre-architecture program. This program will satisfy the first two years of most architecture programs and should be transferable. Some universities offer a degree in architectural engineering. If you are interested in this type of degree, you should follow the civil option under the engineering curriculum.

Pre-Architecture Program	
Course Number and Title	**Credits**
ENGL 101-102 English Composition	6
ART 107, 108 Art Foundations I and II	6
ARTHIST 101, 102 Survey of Western Art I and II	6
MATH 147 Precalculus	5
MATH 160 Survey of Calculus	4
PHYS 111 General Physics	4
Area I, II, or III core course (3 recommended)	9
ART 109 Foundation Drawing	3
ART 156 Architectural Graphics I	3
ART 255 Architectural Graphics II	3
ART 256 Introduction to Architectural Design	3
ART 270 History of American Architecture	3
ART 271 History of Modern American Architecture	3
ART 290 Materials and Methods of Architecture	3
DRAFTEC 109 Fund of Computer-Aided Drafting and Design (Take as ART 496 Independent Study)	2
Total	63
NOTE: University core classes may be used in place of optional courses in the program, or to extend the time you take courses at Boise State University.	

Course Offerings

See page 65 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)(Area I). Designed to acquaint the general college student with the aesthetics of painting, sculpture, architecture, and related art forms.

ART 107 ART FOUNDATIONS I (2-4-3)(F,S). Introduction to visual language through the examination of structures in art and culture. Develop strategies for interpreting and constructing effective two-dimensional images.

ART 108 ART FOUNDATIONS II (2-4-3)(F,S). Exploration of various three-dimensional design methods and their relationship to the cultural context and conceptualization of art objects.

ART 109 FOUNDATION DRAWING (0-6-3)(F, S). Introduction to drawing as a system of visual communication. Development and study of perception, form, and content. Introduction to critique. PREREQ: Art majors only.

ART 117 INTRODUCTION TO TYPOGRAPHY AND GRAPHIC DESIGN (0-6-3)(F/S). Exploration of type as a design element. Introduction to issues and practices in the professional design fields. PREREQ: ART 107.

ART 118 DIGITAL TOOLS FOR GRAPHIC DESIGN AND ILLUSTRATION (2-2-3)(F/S). An introduction to the use of the Macintosh computer in the graphic design and illustration professions, including relevant vector, raster and page layout software. Students are advised to take ART 117 before or concurrent with ART 118.

ART 156 ARCHITECTURAL GRAPHICS I (1-4-3)(S). Introduction to architectural graphics including the principles and techniques of plan, section, elevation, axonometric and perspective projections through drawing projects and lectures.

ART 203 GRAPHIC DESIGN STUDIO I (2-2-3)(F). Focus on studio problems that emphasize technical, stylistic and conceptual development. PREREQ: ART 118.

ART 204 GRAPHIC DESIGN STUDIO II (2-2-3)(S). Focus on studio problems of increasing complexity that emphasize technical, stylistic and conceptual development. Students in ART 204 will prepare a portfolio to apply for upper-division admission in Graphic Design. PREREQ: ART 203.

ART 209 INTRODUCTION TO PRINTMAKING (0-6-3)(F/S). Introduction to historical and contemporary printmaking media and techniques and their creative potential. PREREQ: ART 107 and ART 108. COREQ: ART 109 or PERM/INST.

ART 212 DRAWING I (0-6-3)(F,S). Drawing from observation and imagination. Exploration of form and content. PREREQ: ART 109.

ART 215 PAINTING I (0-6-3)(F, S). Introduction to the fundamentals of painting. Basic technical, formal and conceptual issues in historical and contemporary painting. May be repeated once for credit. PREREQ: ART 109 or PERM/INST.

ART 221 ART METALS: INTRO TO METALSMITHING (2-4-3)(F,S). Basic hand-tool knowledge, soldering, and fabrication of metalworking, adornment, and vessels. Introduction to historical and contemporary metalwork. PREREQ: ART 107 or PERM/INST.

ART 225 CERAMICS (2-4-3)(F). An introduction to ceramics technique and materials. Hand building, wheel-throwing, decoration, glazing, and firing instruction will be given. Enrollment is limited.

ART 226 CERAMICS (2-4-3)(S). Continued use of the potter's wheel, molding, and hand building.

ART 231 BEGINNING SCULPTURE (2-4-3)(F/S). Fundamentals of sculpture as a means of three-dimensional expression. Variety of materials and processes including carving and modeling. PREREQ: ARTHIST 101 or ARTHIST 102, COREQ: ART 108 or PERM/INST.

ART 251 INTRODUCTION TO CREATIVE PHOTOGRAPHY (2-2-3)(F/S). An aesthetic approach to the basic photographic skills of camera operation, film development, and enlargement of negatives. All work in black and white. Adjustable camera required.

ART 255 ARCHITECTURAL GRAPHICS II (1-4-3)(F). A continuation of ART 156, emphasizes axonometric and perspective projection drawings and their incorporation into digital media and the design process. PREREQ: ART 156 or PERM/INST.

ART 256 INTRODUCTION TO ARCHITECTURAL DESIGN (1-4-3)(S). Introduction to the fundamentals of architectural design through lectures and projects, instructs students in developing a foundation with which to critically see and design. Students research, design, and represent concepts in space, light, material, and tectonics with drawings, models, and digital media. PREREQ: ART 255 or PERM/INST.

ART 270 HISTORY OF AMERICAN ARCHITECTURE I (3-0-3)(F). History of early American architecture from developments after Plymouth Rock landing in early 17th century through mid-19th century.

ART 271 HISTORY OF MODERN AMERICAN ARCHITECTURE II (3-0-3)(S). History of modern American architecture from the late 19th century through mid 20th century. Includes introductory review of American architecture from early 17th Century through late 19th century.

ART 290 MATERIALS AND METHODS OF ARCHITECTURE (3-0-3)(F). Historical and present day uses of construction materials and their associated techniques. Introduction to masonry, wood, steel, concrete, and experimental constructions, students explore the limits and potentials of materials through reading, construction site visits and fabrication and/or modeling projects.

Upper Division

ART 300 MULTICULTURAL ARTS (3-2-3)(F/S). 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: ART 107, ART 108, ART 109, ART 212, ART 209, ART 215, ART 225 or ART 226, ART 231, ARTHIST 101, ARTHIST 102, ED-CIFS 201, ED-TECH 202, or PERM/INST.

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: ART 108, ART 109, 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 for credit. PREREQ: ART 108, ART 109, ART 221 or PERM/INST.

ART 305 STUDIO IN VISUAL DESIGN (0-6-3)(F/S). Advanced exploration of two-dimensional or three-dimensional design, continuing with problems in line, form, color, texture, and space. PREREQ: ART 107, ART 108, and ARTHIST 101 or ARTHIST 102, or PERM/INST.

ART 306 CONTEMPORARY 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: ART 108, ART 109, 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: ART 108, ART 109, 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: 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: 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: ART 212.

ART 315 PAINTING II (0-6-3)(F,S). Emphasis on contemporary approaches to content, media, format, technique, and composition. May be repeated once for credit. PREREQ: ART 212 and ART 215.

ART 317 WATERCOLOR AND RELATED MEDIA (0-6-3)(F,S). Emphasis on developing individual interests and expressive strengths in painting with watercolor and related media, allowing further exploration of objectives. May be repeated once for credit. Admission by portfolio review the semester prior to enrollment. PREREQ: ART 315 or PERM/INST.

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: ART 212 and ART 215.

ART 321 ELEMENTARY SCHOOL ART METHODS (3-1-3). Prepares future elementary and special 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 demonstrate technical and artistic skills and mastery with K-8 art materials and will design, teach, and assess art lessons. Optional lab hours available. Materials fee. PREREQ: Upper-division standing.

ART 322 ELEMENTARY SCHOOL ART METHODS FOR ART EDUCATION MAJORS (3-2-4)(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: Art education major; ART 107, ART 108, ART 109, ART 212, ART 209, ART 215, ART 225 or ART 226, ART 231, ARTHIST 101, ARTHIST 102, ED-CIFS 201, ED-TECH 202, or PERM/INST.

ART 325 STUDIO IN CERAMICS (0-6-3)(F/S). Advanced instruction in clay and glaze materials, and fabrication methods. May be repeated once for credit. PREREQ: ART 225 or ART 226.

ART 331 CARVING (2-4-3)(F/S). Techniques of hand carving in a variety of materials, including wood and stone, with references to historical and contemporary approaches. May be repeated once for credit. PREREQ: ART 107, ART 108, ART 109, ART 231, ARTHIST 101, and ARTHIST 102.

ART 332 FIGURE SCULPTURE (2-4-3)(F/S). Fundamentals of classical figure sculpture in wax, clay, and other additive media. Gesture, proportion, anatomical structure and the expressive possibilities of the figure. May be repeated once for credit. PREREQ: ART 107, ART 108, ART 109, ART 231, ARTHIST 101, and ARTHIST 102.

ART 334 ASSEMBLED FORM (2-4-3)(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: ART 107, ART 108, ART 109, ART 231, ARTHIST 101, and ARTHIST 102.

ART 339 CAST FORM (2-4-3)(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: ART 107, ART 108, ART 109, ART 231, ARTHIST 101, ARTHIST 102, and one other 300-level sculpture course.

ART 341 CREATIVE PHOTOGRAPHY (2-4-3)(F/S). Intermediate study of photographic techniques; emphasis on the creative approach to picture-making and printing. Adjustable camera required. PREREQ: ART 251.

ART 342 DIGITAL PHOTOGRAPHY (2-4-3)(F/S). An introduction to computer imaging technologies related to photographic image making. PREREQ: ART 251.

ART 344 CREATIVE PHOTOGRAPHY, COLOR PRINTING (2-4-3)(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: 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: ART 251 and ART 342.

ART 351 SECONDARY SCHOOL ART METHODS (3-2-4)(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: Art education major, ART 107, ART 108, ART 109, ART 212, ART 209, ART 215, ART 225 or ART 226, ART 231, ARTHIST 101, ARTHIST 102, ED-CIFS 201, ED-TECH 202, or PERM/INST.

ART 361 ILLUSTRATION I (0-6-3)(F/S). Survey of historical and contemporary illustration materials, techniques, and styles. Focus on creative communicative solutions to visual problems. PREREQ: ART 107, 108, 112, and ARTHIST 101 or 102, and junior standing, or PERM/INST.

ART 362 ILLUSTRATION II (0-6-3). Continued exploration of illustration as a profession and as an expressive communicative medium. Focus on interpretive problem solving. Individually selected media. PREREQ: ART 361 and PERM/INST.

ART 388 GRAPHIC DESIGN STUDIO III (0-6-3)(F/S). Focus on 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 for clients from the community. May be repeated once for credit. PREREQ: Upper-division standing in graphic design.

ART 398 SEMINAR (3-0-3)(F/S). Introduces challenging and controversial works, practices and problems within contemporary visual culture. Develops conceptual and critical skills through readings, papers, class discussions, and the examination of various types of representation and media. Intended as a preparation for senior year exit requirement courses. PREREQ: ART 107, ART 108, ART 109, ARTHIST 101, ARTHIST 102, and one 300-level ARTHIST course.

ART 400 HISTORY OF VISUAL RHETORIC (3-0-3)(F/S). Explores the layers of meaning in visual communication. Within this context, the work of selected designers and illustrators will be presented.

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

ART 410 PROFESSIONAL PRACTICES IN ART (2-2-3)(F, S). Provides the student with practical knowledge in business, legal, and organizational aspects of art including an examination of gallery and museum procedures. Students will organize and produce an exhibition of their artwork or write a research paper depending on area of emphasis. Students participating in the exhibition will supply documentation of their artwork and other relevant material. PREREQ: ART 398 and senior standing. B.F.A. candidates only or PERM/INST.

ART 411 STUDIO I (0-6-3)(F,S). Individual studio problems. May be repeated once for credit. PREREQ: ART 311 and ART 315.

ART 415 STUDIO II (0-6-3)(F/S). Individual studio problems. May be repeated once for credit. PREREQ: ART 311 and ART 315.

ART 419 STUDIO IN ART METALS (0-6-3)(F/S). Individual problems in Art Metals. Maybe repeated for credit. PREREQ: 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, including individual instruction in clay and glaze materials, fabrication methods, and professional practices. May be repeated twice for credit. PREREQ: 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 four courses: ART 331, ART 332, ART 334, ART 339.

ART 444 ADVANCED PHOTOGRAPHY (2-4-3)(F/S). Individual problems in photography. May be repeated for credit. PREREQ: ART 341 and ART 344.

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: ART 362 and PERM/INST.

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: ART 461 and PERM/INST.

ART 465 SENIOR PROJECT IN ILLUSTRATION (0-6-3)(F/S). Culminating original project for illustration majors, including a formal presentation or exhibition. PREREQ: ART 462 and PERM/INST.

ART 483 NEW MEDIA DESIGN (2-2-3)(F/S). An introduction to the visual and conceptual design of emerging digital technologies, including multimedia, animation, interface and website design. PREREQ: Upper-division standing in Graphic Design and PERM/INST.

ART 488 GRAPHIC DESIGN STUDIO IV (0-6-3)(F/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: Upper-division standing in Graphic Design.

ART 495 PORTFOLIO DEVELOPMENT (2-2-3)(F/S). Students prepare a portfolio which they may use to enter the professional market. The course assists students in revising and editing their existing work, adding new work as needed, selecting an appropriate presentational format, developing self-promotional strategies and sharing their portfolios with the civic and professional communities. Recommended that students take this course in their final semester. PREREQ: Upper-division standing in Graphic Design or Illustration.

ARTHIST—ART HISTORY

Lower Division

ARTHIST 101 SURVEY OF WESTERN ART I (3-0-3)(F)(Area I). 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)(Area I). 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 352 ART OF CHINA (3-0-3)(F/S)(Alternate years). A survey of the art and architecture of China from the earliest times to the end of the Ch'ing Dynasty. Emphasis will be placed on the relationship of Chinese art to native and foreign philosophies and religions. PREREQ: ARTHIST 103 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 357 ART OF JAPAN (3-0-3)(F/S)(Alternate years). A survey of the traditional arts of Japan from the earliest times until the first influences of Western culture, including painting, sculpture, architecture, calligraphy, prints, and ceramics. 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 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: ART 107, ART 108, ARTHIST 102.

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: ARTHIST 101, ARTHIST 102, and 3 credits of upper-division art history or PERM/INST.

Athletic Training—see Department of Kinesiology

Bachelor of Applied Science Degree

Larry G. Selland College of Applied Technology

http://selland.boisestate.edu

Contact: Larry G. Selland College of Applied Technology Enrollment Management and Student Success Office(s): Boise: Technical Services Building, 1464 University Dr., Room 109; telephone 208 426-1431; fax 208 426-1029 **OR** Canyon County Center in Nampa: 2407 Caldwell Blvd., telephone 208 562-2100, fax 208 562-2185.

The Bachelor of Applied Science (B.A.S.) degree 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 course work with both general education core and elective course work. Building upon the learning outcomes of their A.A.S. program, students achieve the learning outcomes of the university core curriculum. Additionally, students cluster a portion of their elective course work within one or more academic disciplines resulting in specialized knowledge designed to complement their course work and enhance their career potential.

Eligibility Requirements for Admission to the B.A.S. Program

You must meet one of the following requirements to be admitted to the B.A.S. program:

- graduate of an A.A.S. degree program approved by the Idaho State Board of Education
- graduate of an institution accredited by a regional accrediting association (as reported in *Accredited Institutions of Post Secondary Education*) that meets Idaho Standards for an A.A.S. degree (minimum of 60 credits or equivalent quarter credits.)
- currently accepted to or enrolled in an A.A.S. degree program at Boise State University

Application Procedures for Admission to the B.A.S. Program

To be accepted into the B.A.S. program, you must do all of the following:

- Apply for admission to the Larry G. Selland College of Applied Technology at Boise State University.
- Arrange to have official copies of transcripts, documenting all prior technical, academic, military or other applicable coursework, sent to either of the College Enrollment Management and Student Success offices noted above.
- Declare the B.A.S. as your major, either at the time you apply for admission or by submitting a completed student "Information Update Form" to either of the College Enrollment Management and Student Success offices noted above.
- Submit a completed "Application for Acceptance into the Bachelor of Applied Science Program" form to the B.A.S. Program Office.

Degree Requirements

Applied Technology Bachelor of Applied Science	
Course Number and Title	**Credits**
ENGL 101-102 English Composition	6
Area I—see page 45 for list of approved courses	
Area I core course in a first field	3
Area I core course in a second field	3
Area I core course in a third field	3
Area I core course in any field	3
Area II—see page 45 for list of approved courses	
Area II core course in a first field	3
Area II core course in a second field	3
Area II core course in a third field	3
Area II core course in any field	3
Area III—see page 45 for list of approved courses	
Area III core course in mathematics	3-5
Area III core course in a second field	4
Area III core course in any field	4
Areas of Emphasis Of the required 34 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 OR a minimum of 15 credits interdisciplinary. (Students must see their advisors for approved areas of emphasis.)	15-18
Upper-division courses (No more than 9 hours may come from BASCI courses.)	16-19
Technical Education courses	40
Electives to total 128 credits (May be technical or academic credits not otherwise counted. Up to three credits may come from KIN-ACT courses)	11-13
Total	128
To meet graduation requirements for the B.A.S., you must be a graduate of a technical program meeting Idaho standards for the A.A.S. degree. Furthermore, the technical program must be accredited by a regional accrediting body recognized by the Council on Postsecondary Education. Exceptions to these policies must be reviewed by the Dean of the Larry G. Selland College of Applied Technology.	

Course Offerings

See page 65 for a definition of the course-numbering system.

BASCI — BACHELOR OF APPLIED SCIENCE

BASCI 493 BACHELOR OF APPLIED SCIENCE INTERNSHIP (Variable Credit). Field learning in the technical environment under supervision of both a manager and an instructor. To enroll in courses numbered 493, a student must have attained a cumulative grade- point average of 2.0 or higher. BASCI 493 may be repeated for a maximum of 6 credits. (Pass/Fail.) PREREQ: PERM/INST/CHAIR.

BASCI 494 BACHELOR OF APPLIED SCIENCE CONFERENCE OR WORKSHOP (Variable Credit). Conference and workshops conducted by outstanding business and industry leaders or qualified faculty in a technical field sponsored under the auspices of Boise State University. (Pass/Fail) PREREQ: Upper-division standing and PERM/INST/CHAIR.

BASCI 496 BACHELOR OF APPLIED SCIENCE INDEPENDENT STUDY (Variable Credit). Upper-division students may complete an independent study for technical competency upgrade, applied research project, or specialized advanced skill experience or study. 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 University, nor can independent study credits be used to improve a grade in a course the student has already taken. BASCI 496 may be repeated maximum of 6 credits. (Pass/Fail.) PREREQ: PERM/INST/CHAIR.

BASCI 498 BACHELOR OF APPLIED SCIENCE SEMINAR (Variable Credit). Opportunity for study of a particular area in a technical field at an advanced level. Topics on the basis of their timely relevance to technical fields and a particular expertise of faculty or related industry. PREREQ: Upper-division standing and PERM/INST/CHAIR.

Department of Bilingual Education

College of Education

Education Building, Room 429 Telephone: 208 426-4077
http://education.boisestate.edu Fax: 208 426-4006

Chair and Associate Professor: Claudia Peralta- Nash. *Professor:* Bahruth. *Assistant Professor:* Hale.

Degrees Offered

- B.A. in Elementary Education, Bilingual/ESL
- M.Ed. in Bilingual Education (Spanish-English)
- M.Ed. in English as a Second Language

Department Statement

Reflective teachers adjust their teaching approaches and learning environment to the needs and backgrounds of their students. This is particularly critical when teaching children who come from different cultures and whose primary language is not English. Professional courses in the bilingual education/ ESL degrees are designed to assist candidates in developing knowledge, skills, values and dispositions essential for success in teaching all children, especially linguistically and culturally diverse students. The course work prepares candidates to teach in two languages and to integrate the children's culture into the teaching-learning process. Course work is based on two assumptions: (1) successful teachers are committed to the acquisition of and continuous renewal of knowledge in the substantive areas they teach and (2) they are committed to the development of pedagogy conducive to a high level of achievement for all students. Degrees offered by the department focus on the study of theory, curriculum, second language acquisition and Spanish.

In preparatory course work, candidates will examine theories of learning and human development. They will learn how children learn another language and how to teach effectively in the children's native language. They will also learn how to teach children English without sacrificing their progress in the academic subject areas. Course work and practicum experiences will acquaint candidates with the rich diversity they will find in their K-12 classrooms and provide opportunities to practice pedagogy appropriate for the content being taught. Course work emphasizes the development of values aimed at a healthy society within a global community. Candidates who complete the approved program of study are exemplary teachers. They accept the challenge of teaching children learning English as another language as well as all other students and acknowledge the importance of educating a citizenry who will contribute to society as caring, responsible, and thoughtful citizens. Candidates can make effective pedagogical decisions and demonstrate that they meet the Idaho Beginning Teacher Standards.

In addition to the pre-service and graduate education program, the department also supports the acquisition of bilingual and English as a Second Language endorsements. We work in collaboration with teachers and local school districts developing in-service programs. The department provides assistance to school districts, government agencies, and the private sector. Faculty members in the department are encouraged and supported in their efforts to conduct applied and action research in school settings.

Additional Information

Please refer to the Department of Bilingual Education (http://education.boisestate.edu/bilingual-esl) for information regarding:

- Continued Enrollment
- Special Information for Transfer students or Students with a Prior Degree
- Admission to Graduate Programs
- Special information for Bilingual and English as a Second Language Endorsements
- Scholarships and Grants

Degree Requirements

Elementary Education Bilingual/ESL Bachelor of Arts	
Course Number and Title	**Credits**
ENGL 101-102 English Composition NOTE: Students not required to take ENGL 101 must complete an additional 3 credits of English. For certification purposes, bilingual/ESL majors must complete a total of 12 hours of English, including both composition and literature. LING 305 will fulfill this requirement.	6
Area I—see page 45 for list of approved courses	
ENGL 277 or 278 Survey of American Literature SPANISH 201-202, or SPANISH 201, SPANISH 203 Intermediate Spanish Area I core course in a third field (ART 100 or MUS 100 recommended)	3 8 3
Area II	
ANTH 102 Cultural Anthropology HIST 111 or HIST 112 U. S. History PSYC 101 General Psychology SOC 230 Introduction to Multiethnic Studies	3 3 3 3
Area III—see page 45 for list of approved courses	
BIOL 100 Concepts of Biology MATH 257 Geometry and Probability for Teachers (Prereq: Math 157) Area III core course in a third field NOTE: Bilingual/ESL majors must have courses in at least two of the following disciplines: biological sciences, earth science, or physical science.	4 4 4
ART 321 Elementary School Art Methods **OR** MUS 374 Music Methods for Elementary School Teacher	3
ED-BLESL 201 Foundations of Teaching Bilingual Education/ESL ED-BLESL 202 Mexican-American Tradition and Culture ED-BLESL 301 Identification and Diagnosis of LEP Students ED-BLESL 302 Teaching Reading Bilingually ED-BLESL 303 Teaching Content in the Bilingual Classroom ED-BLESL 304 Methods of Teaching ESL ED-BLESL 305 Spanish for the Bilingual Classroom ED-BLESL 306 Field Experience in the Bilingual or ESL Classroom ED-BLESL 460 Professional Year I ED-BLESL 461 Professional Year II: Teaching Experience in Bilingual/ESL Education ED-BLESL 462 Professional Year III: Teaching Experience in Bilingual/ESL Education	3 2 3 2 3 3 2 1 5 7 7
ED-CIFS 201 Foundations of Education ED-CIFS 330 Elementary Social Studies Curriculum & Instruction ED-CIFS 331 Elementary Mathematics Curriculum and Instruction **ED-CIFS 332 Elementary Classroom Management Skills **OR** ED-ECS 329 Child Behavior, Guidance, and Intervention ED-CIFS 333 Elementary Science Curriculum and Instruction **ED-ECS 329 is recommended for students anticipating careers in P-3. ED-CIFS 332 is recommended for all other students.	3 3 3 3 3
ED-LTCY 340 Idaho Comprehensive Literacy Course ED-LTCY 346 Children's Literature ED-LTCY 440 Content Area Language Arts: K-8	4 3 2
ED-SPED 250 Exceptionality in the Schools	3
EDTECH 202 Educational Technology – Classroom Applications	3
KINES 355 Elementary School Health & PE Curriculum & Instruction	3
LING 305 Introduction to Language Studies	3
MATH 157 Structure of Arithmetic for Teachers	4
*+SPANISH 303 Advanced Spanish Conversation and Composition *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, 202, or 203 in fulfillment of Area I core requirements. + Prior to the professional (senior) year, Bilingual Education/ESL majors must demonstrate oral and written proficiency in Spanish by successfully passing the Department's Spanish Proficiency Assessment and/or ED-BLESL 305.	3

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Elementary Education Bilingual/ESL	
Total	129

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 regular or bilingual elementary classroom. The certificate will also be endorsed for Bilingual Education, K-12 and English as a Second Language, K-12.

Pre-Endorsement

English as a Second Language (ESL) Pre-Endorsement students majoring in Elementary Education who pursue the pre-endorsement sequence in English as a Second Language (ESL) receive additional background knowledge, and pedagogy that will assist them in teaching students who are learning English as a new language.

English as a Second Language (ESL) Pre-Endorsement	
Course Number and Title	**Credits**
ED-BLESL 200 Cultural Diversity in the School	3
ED-BLESL 201 Foundations of Teaching Bilingual Education/ESL	3
ED-BLESL 202 Mexican American Tradition and Culture	2
ED-BLESL 303 Teaching Content in the Bilingual/ESL Classroom	3
ED-BLESL 304 Methods of Teaching ESL	3
Total	14

Course Offerings

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

ED-BLESL — BILINGUAL EDUCATION/ENGLISH AS A SECOND LANGUAGE

Lower Division

ED-BLESL 200 CULTURAL DIVERSITY IN THE SCHOOL (2-3-3)(F/S)(Diversity). An introduction to cultural diversity in education, including an historical overview of programs for students from linguistically and culturally diverse backgrounds, contemporary multicultural and bilingual education, and education for social justice and equity. Field experience component is required.

ED-BLESL 201 FOUNDATIONS OF TEACHING BILINGUAL EDUCATION/ESL (3-0-3)(F). Psychological, legal, and cultural foundations of bilingual education and teaching English as a Second Language. Current trends in the field and bilingual education/ESL teacher preparation.

ED-BLESL 202 MEXICAN-AMERICAN TRADITION AND CULTURE (2-0-2)(S). Mexican-American traditions, culture, and history. Mexican-American people including their influence on contemporary American language, customs, and beliefs in Mexican-American and educational institutions. COREQ: ED-SPED 250.

Upper Division

ED-BLESL 301 IDENTIFICATION AND DIAGNOSIS OF LIMITED ENGLISH PROFICIENT STUDENTS (3-0-3)(F). Language proficiency tests and theory. Previews language assessment instruments currently in use. Interpretation of the results of these instruments in order to place children at the proper level of bilingual education or ESL. Practical experience in administering assessment instruments. PREREQ: SPANISH 202. PRE/COREQ: ED-BLESL 201.

ED-BLESL 302 TEACHING READING BILINGUALLY (2-0-2)(F/S). Theories of teaching reading and language arts to limited English proficient students. Approaches and opportunities to teach early literacy in Spanish. Instruction is given in both English and Spanish. PREREQ: SPANISH 202 or SPANISH 203. PRE/COREQ: ED-LTCY 340.

ED-BLESL 303 TEACHING CONTENT IN THE BILINGUAL/ESL CLASSROOM (3-0-3)(S). Instructional strategies, techniques, and methods across the content areas for use in the elementary bilingual/ESL classroom. Instruction presented in both Spanish and English. PREREQ: SPANISH 202.

ED-BLESL 304 METHODS OF TEACHING ENGLISH AS A SECOND LANGUAGE (3-0-3)(S). Current approaches, resources and classroom organizational patterns. Problem-solving strategies for dealing with issues and problems regarding the development of communicative competency. PREREQ: ED-BLESL 201.

ED-BLESL 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 for the local speech community. Course conducted in Spanish. PRE/COREQ: SPANISH 303. COREQ: ED-BLESL 306.

ED-BLESL 306 FIELD EXPERIENCE IN THE BILINGUAL OR ESL CLASSROOM (3-0-1)(S). A field placement in a bilingual education or English as a Second Language class in a public school setting. Students in bilingual placements translate school correspondence, form, newsletters, and other written items, and provide oral translation and interpretation in the classroom setting. PRE/COREQ: SPANISH 303. COREQ: ED-BLESL 305.

ED-BLESL 460: PROFESSIONAL YEAR I (0-18-5)(F/S). Classroom placement focusing on activities related to planning and preparation of bilingual/ESL curriculum and instruction, and professional responsibilities. Teacher candidate will complete a minimum of 250 hours in the K-8 classroom and apply knowledge and skills from all professional education coursework, and participate in weekly seminars with their liaisons. (Pass/Fail). PREREQ: Admission to the Professional Year.

ED-BLESL 461 PROFESSIONAL YEAR II: TEACHING EXPERIENCE IN BILINGUAL/ESL EDUCATION (0-21-7)(F/S). Teaching experience in a bilingual/ESL classroom, including activities related to planning and preparation, classroom environments, curriculum and instruction in the bilingual/ESL 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-BLESL 460, and ED-LTCY 440. COREQ: ED-BLESL 462.

ED-BLESL 462 PROFESSIONAL YEAR III: TEACHING EXPERIENCE IN BILINGUAL/ESL EDUCATION (0-21-7)(F/S). The concluding teaching experience in the Professional Year for students pursuing an endorsement in Bilingual Education/ESL, with a full-time teaching experience in a bilingual and/or ESL 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-BLESL 460, and ED-LTCY 440. COREQ: ED-BLESL 461.

Department of Biological Sciences

College of Arts and Sciences

Science/Nursing Building, Room 100 Telephone 208 426-3262
http://www.boisestate.edu/biology/ Fax 208 426-1040
e-mail: Bioinfo@boisestate.edu

Chair and Professor: James R. Belthoff. *Professors:* Bechard, Dufty, Hampikian, Munger, Smith. *Associate Professors:* Jorcyk, Koetsier, Long, Novak, Oxford, Robertson, Rohn, Serpe, Wingett. *Assistant Professors:* Feris, Forbey, Heath, Mitchell, Tinker, White, Yu.

Degrees Offered

- B.S. and Minor in Biology
- B.S. in Biology, Botany Emphasis
- B.S. in Biology, Clinical Laboratory Science Emphasis
- B.S. in Biology, Ecology Emphasis
- B.S. in Biology, Environmental Biology Emphasis
- B.S. in Biology, Human Biology Emphasis
- B.S. in Biology, Microbiology Emphasis
- B.S. in Biology, Molecular and Cell Biology Emphasis
- B.S. in Biology, Zoology Emphasis
- B.S. in Biology, Secondary Education
- M.A. and M.S. in Biology (see the *BSU Graduate Catalog*.)
- M.S. in Raptor Biology (see the *BSU Graduate Catalog*.)
- Pre-Forestry and Pre-Wildlife Management

Department Statement

Please visit our website for complete advising information.

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, wildlife, 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 an area of interest.

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 the noble career of teaching at the secondary school level.

A nondegree curriculum in Pre-Forestry and Pre-Wildlife Management allows students to complete course work at Boise State University before transferring to a program at another institution. Alternatively, one can pursue course work at Boise State to meet education requirements to become a Certified Wildlife Biologist by The Wildlife Society (see http://www.wildlife.org/certification/index.cfm). Many of our students have secured wildlife and fisheries positions with a Biology degree from Boise State University.

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 early on, (3) meet each semester with an advisor, and (4) visit www.boisestate.edu/biology.

Degree Requirements

Biology Bachelor of Science	
Course Number and Title	**Credits**
ENGL 101-102 English Composition	6
Area I—see page 45 for list of approved courses	
Area I core course in one field	3
Area I core course in a second field	3
Area I core course in a third field	3
Area I core course in any field	3
Area II—see page 45 for list of approved courses	
Area II core course in one field	3
Area II core course in a second field	3
Area II core course in a third field	3
Area II core course in any field	3
COMM 101, COMM 112 and PSYC 101 are approved Area II courses and may count in various situations below.	
Area III	
Area III requirements are automatically met by specific courses included in the major requirements below.	
BIOL 191-192 General Biology I & II	8
*BIOL 198 Perspectives in the Biological Sciences	(1)
BIOL 301 Cell Biology	3
BIOL 323 Ecology	4
BIOL 343 Genetics Lecture	3
BIOL 401 Organic Evolution	3
BIOL 488 Senior Outcomes Assessment	0
*Biology 198 is not required, but is recommended for new majors, and will count as general elective credit.	
CHEM 111, 111L-112, 112L General Chemistry I and II with Labs	9
CHEM 301-302 Survey of Organic Chemistry and Lab **OR**	5-10
CHEM 307-308 and 309-310 Organic Chemistry I-II and Labs	
CHEM 301-302 is suitable for most biology majors. Those interested in medical, dental, pharmacy, veterinary school and students pursuing the Molecular and Cell Biology emphasis should take CHEM 307-310. Please consult your advisor.	
Two or more of these communication courses including at least one COMM course:	6
COMM 101 Fundamentals of Speech Communication	
COMM 112 Reasoned Discourse	
COMM 231 Public Speaking	
COMM 356 Communication in the Small Group	
ENGL 201 Nonfiction Writing	
ENGL 202 Technical Communication	
COMM 101 and COMM 112 can be counted as fulfilling part of Area II core requirements.	
MATH 143, 144 College Algebra and Analytic Trigonometry, **OR**	5
MATH 147 Precalculus	
MATH 160 Survey of Calculus **OR**	4
*MATH 170 Calculus I	
MATH 254 Applied Statistics with Computers	4
*MATH 170 is recommended for students planning to enter graduate or professional school.	
In addition, complete either the following course work 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)	4
BOT 401 Plant Physiology	
ZOOL 401 Human Physiology	
ZOOL 409 General and Comparative Physiology	

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Biology (continued)	
Morphology (one course)	4
BIOL 351 Developmental Biology	
BOT 302 Plant Anatomy and Microtechnique	
BOT 311 Plant Diversity and Evolution	
BOT 330 Mycology	
BOT 441 Plant Developmental Biology	
ZOOL 301 Comparative Vertebrate Anatomy	
ZOOL 400 Vertebrate Histology	
*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 128 credits	22-23
Botany Emphasis	
BOT 302 Plant Anatomy and Microtechnique **OR**	4
BOT 311 Plant Diversity and Evolution	
BOT 305 Systematic Botany **OR**	4
BOT 330 Mycology	
BOT 401 Plant Physiology	4
Upper-division botany courses to total 16 botany credits	4
*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 128 credits	22-23
Clinical Laboratory Science Emphasis	
To complete this emphasis requires admission into the CLS program of Idaho State University. Application should be completed by April 1 of the junior year. Typically, all other coursework should be completed before entering the CLS program. Completion of this emphasis, which includes the ISU CLS program will qualify the student to apply for CLS certification.	
BIOL 205 Introductory Microbiology **OR**	4-5
BIOL 303 General Microbiology	
BIOL 420 Immunology	3
CHEM 431 Biochemistry I or CHEM 309 Organic Chemistry II	3
PHYS 111-112 General Physics (recommended, but not required)	(8)
ZOOL 401 Human Physiology	4
At least one of the following courses:	2-4
BIOL 310, BIOL 343, BIOL 412, BIOL 441, BIOL 445, HLTHST 300	
Clinical Laboratory Sciences courses from Idaho State University, generally to be taken in the senior year. See ISU's catalog for course descriptions. BIOL 411P Phlebotomy, Urinalysis, and Waived Testing, BIOL 411Q Introduction to Clinical Laboratory Science, BIOL 411D, E Clinical Microbiology I and II, BIOL 411F Clinical Hematology I, BIOL 411G Critical Analysis of Laboratory Values, BIOL 411H Immunology and Transfusion Medicine I, BIOL 411I Immunology/Serology/Immunohematology II, BIOL 411J Clinical Chemistry, BIOL 411K Molecular Biology Laboratory Methods, BIOL 411M Clinical Laboratory Research, BIOL 411N Clinical Laboratory Site Experience, BIOL 411S Laboratory Analysis and Management.	
**Electives to total 128 credits	0-2
Ecology Emphasis	
Ecology (3 or more courses)	10-12
BIOL 409 Molecular Ecology	
BIOL 415 Applied and Environmental Microbiology	
BIOL 422 Conservation Biology	
BIOL 426 Insect Ecology	
BIOL 427 Stream Ecology	
BIOL 433 Behavioral Ecology	
BOT 424 Plant Community Ecology	
(or acceptable alternatives)	

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Biology (continued)	
Physiology (one or more courses): BOT 401 Plant Physiology **OR** ZOOL 409 General and Comparative Physiology	4
Taxonomy-intensive course BIOL 412 General Parasitology BOT 305 Systematic Botany BOT 330 Mycology ZOOL 305 Entomology ZOOL 341 Ornithology ZOOL 355 Vertebrate Natural History ZOOL 421 Mammalogy ZOOL 425 Aquatic Entomology	3-4
*Upper-division BIOL, BOT, or ZOOL electives to total 42 biology credits	1-4
PHYS 111-112 General Physics **OR** PHYS 211, 211L-212, 212L Physics with Calculus I, II, and Labs	8-10
Upper-division elective to total 40 credits	0-2
**Electives to total 128 credits	9-18
Environmental Biology Emphasis	
BIOL 422 Conservation Biology	3
BOT 401 Plant Physiology **OR** ZOOL 409 General and Comparative Physiology	4
Ecology (two or more courses): BIOL 409 Molecular Ecology BIOL 415 Applied and Environmental Microbiology BIOL 426 Insect Ecology BIOL 427 Stream Ecology BOT 424 Plant Community Ecology	8
ENVSTD 121 Introduction to Environmental Studies	3
GEOS 101 Environmental Geology	4
POLS 340 Environmental Politics	3
*Upper-division BIOL, BOT, or ZOOL electives to total 42 biology credits	6
Two or more of the following courses for at least 6 credits: (Students should take more of these courses if feasible; these courses may not be counted in another major or minor.) CE 320-321 Principles of Environmental Engineering and Lab ECON 333 Natural Resource Economics ENVHLTH 310 Water Supply and Water Quality Management ENVHLTH 380 Air Quality Management ENVHLTH 417 Principles of Toxicology ENVHLTH 442 Hazardous Waste Management GEOG 360 Introduction to Geographical Information Systems GEOG 361 Remote Sensing GEOS 305 Soil Mechanics Laboratory GEOS 412 Hydrogeology GEOS 451 Principles of Soil Science POLS 303 Public Administration POLS 320 American Policy Process	6
**Electives to total 128 credits	7
Human Biology Emphasis	
BIOL 205 Introductory Microbiology **OR** BIOL 303 General Microbiology (Only BIOL 303 satisfies prerequisites for upper division microbiology electives)	4-5
PSYC 101 General Psychology (counts as Area II core)	3
ZOOL 401 Human Physiology	4
Morphology (one or more courses): BIOL 351 Developmental Biology ZOOL 301 Comparative Vertebrate Anatomy ZOOL 400 Vertebrate Histology	4

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Biology (continued)	
Courses chosen from the following for a minimum of 8 credits: BIOL 310 Pathogenic Bacteriology BIOL 344 Molecular and Cell Biology Laboratory BIOL 351 Developmental Biology BIOL 412 Parasitology BIOL 420 Immunology BIOL 431 Pharmacology BIOL 441 Molecular Biology of Cancer BIOL 442 Molecular Neurobiology BIOL 443 Advanced Developmental Biology ZOOL 301 Comparative Vertebrate Anatomy ZOOL 400 Vertebrate Histology ZOOL 403 Head and Neck Anatomy	8
Two or more of the following courses including at least one PSYC course: BIOL 300 Biology of Aging HLTHST 300 Pathophysiology HLTHST 480 Epidemiology PSYC 301 Abnormal Psychology PSYC 331 Psychology of Health PSYC 335 Physiological Psychology	6-7
*Upper-division BIOL, BOT, or ZOOL electives to total 42 biology credits	1
**Electives to total 128 credits Students should consult their advisors for recommendations regarding electives. Professional programs may require BIOL 227-228; CHEM 309, 310, 431, 432, 433; PHYS 111-112, or others	13-14
Microbiology Emphasis	
BIOL 303 General Microbiology	5
BIOL 415 Applied and Environmental Microbiology **OR** BIOL 310 Pathogenic Bacteriology	4
CHEM 431, 432 Biochemistry I and Biochemistry Lab	5
Two or more additional courses chosen from the following for a minimum of 8 credits: BIOL 310 Pathogenic Bacteriology BIOL 344 Molecular and Cell Biology Laboratory BIOL 412 General Parasitology BIOL 415 Applied and Environmental Microbiology BIOL 420 Immunology BOT 330 Mycology	8
*Upper-division BIOL, BOT, or ZOOL electives to total 42 biology credits	4
**Electives to total 128 credits Recommended: CHEM 433, HLTHST 480, PHYS 111-112	18
Molecular and Cell Biology Emphasis	
BIOL 344 Molecular and Cell Biology Laboratory BIOL 465 Advanced Topics in Molecular Biology Techniques	3 1
Additional courses chosen from the following: BIOL 303 General Microbiology BIOL 351 Developmental Biology BIOL 420 Immunology BIOL 431 Pharmacology BIOL 441 Molecular Biology of Cancer BIOL 442 Molecular Neurobiology BIOL 443 Advanced Developmental Biology BIOL 446 Introduction to Bioinformatics BIOL 466 Advanced Topics in Molecular, Cellular, & Developmental Biology BOT 401 Plant Physiology BOT 441 Plant Developmental Biology PHYS 307 Introduction to Biophysics ZOOL 400 Vertebrate Histology ZOOL 401 Human Physiology	17

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Biology (continued)	
CHEM 309, 310 Organic Chemistry II and Lab (second semester) CHEM 431, 432, 433 Biochemistry I, Lab, and II	5 8
PHYS 111-112 General Physics **OR** PHYS 211, 211L-212, 212L Physics with Calculus I, II, and Labs	8-10
**Electives to total 128 credits	0-2
Zoology Emphasis	
Physiology ZOOL 401 Human Physiology **OR** ZOOL 409 General and Comparative Physiology	4
Morphology (one course): BIOL 351 Developmental Biology ZOOL 301 Comparative Vertebrate Anatomy 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 128 credits	21-23
Total	128

The following statements apply to B.S.Biology degrees with or without an emphasis:
*Workshops may not be counted towards upper-division biology credit; A maximum of 4 credits total of any combination of internship and independent study credit may be counted towards 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 course work.

Biology Minor

Course Number and Title	Credits
BIOL 191-192 General Biology I & II BIOL 205 Introductory Microbiology **OR** BIOL 303 General Microbiology	8 4-5
Upper division biology courses	10-11
Total	23

The Biology, Secondary Education program combines content knowledge, theories of learning and human development, and 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. We believe that all children, adolescents, and adults can learn. Our faculty support learning using approaches and technologies that promote high levels of student achievement and that prepare learners to be citizens that contribute to a complex world. Educators serve learners as reflective practitioners, scholars, problem solvers and partners. Candidates who complete this program have demonstrated evidence of meeting the Idaho Core Teacher Standards, Foundation Standards for Science Teachers and Standards for Biology Teachers 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. Students are encouraged to increase their employability by developing their ability to lead through extracurricular activities, such as by coaching a sports team or a debate team.

Biology, Secondary Education Bachelor of Science

Course Number and Title	Credits
ENGL 101-102 English Composition	6
Area I—see page 45 for list of approved courses	
Area I core course in one field Area I core course in a second field Area I core course in a third field Area I core course in any field	3 3 3 3
Area II—see page 45 for list of approved courses	
ED-CIFS 201 Foundations of Education Area II core course in a second field Area II core course in a third field Area II core course in any field COMM 101 and COMM 112 are approved Area II courses and are options below	3 3 3 3
Area III	
Area III requirements are automatically met by specific courses included in the major requirements below.	
BIOL 191-192 General Biology I & II *BIOL 198 Perspectives in the Biological Sciences BIOL 301 Cell Biology BIOL 323 Ecology BIOL 343 Genetics Lecture BIOL 401 Organic Evolution BIOL 488 Senior Outcomes Assessment *Biology 198 is not required, but is recommended for new majors	8 (1) 3 4 3 3 0
CHEM 111, 111L-112, 112L General Chemistry I and II with Labs CHEM 301-302 Survey of Organic Chemistry and Lab **OR** CHEM 307-308 and 309-310 Organic Chemistry I-II and Labs	9 5-10
*ED-CIFS 301 Teaching Experience I *ED-CIFS 302 Learning and Instruction *ED-CIFS 401 Professional Year—Teaching Experience II *ED-CIFS 404 Teaching Secondary Science *ED-LTCY 444 Content Literacy for Secondary Students *ED-SPED 350 Teaching Students with Exceptional Needs at the Secondary Level *Teaching Experience III/IV NOTE: *You must apply for admission to secondary teacher education in order to enroll in these upper-division education courses. Completion of all requirements for graduation with a secondary education option may require more than 128 credit hours. See "Department of Curriculum, Instruction, and Foundational Studies" for more information.	1 4 2 3 3 3 16
EDTECH 202 Education Technology	3
MATH 143,144 College Algebra and Analytic Trigonometry **OR** MATH 147 Precalculus MATH 160 Survey of Calculus **OR** MATH 170 Calculus I MATH 254 Applied Statistics with Computers	5 4 4
Two or more of these communication courses including at least one COMM course: COMM 101 Fundamentals of Speech Communication COMM 112 Reasoned Discourse COMM 231 Public Speaking COMM 356 Communication in Small Group ENGL 201 Nonfiction Writing ENGL 202 Technical Communication COMM 101 and COMM 112 can be counted as fulfilling part of Area II core requirements.	6

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Biology, Secondary Education (continued)	
Major Endorsement in Biology	
BIOL 205 Introductory Microbiology	4
Physiology (one course): BOT 401 Plant Physiology ZOOL 401 Human Physiology ZOOL 409 General and Comparative Physiology	4
Taxonomy-intensive courses (one course): BIOL 412 General Parasitology BOT 305 Systematic Botany BOT 330 Mycology ZOOL 305 Entomology ZOOL 341 Ornithology ZOOL 355 Vertebrate Natural History ZOOL 421 Mammalogy ZOOL 425 Aquatic Entomology	3-4
*Upper-division BIOL, BOT, and ZOOL electives to total 45 biology credits *A maximum of 2 credits total in any combination of department approved workshops, internship, and independent study may be counted towards upper-division biology credit.	12-13
Total	140-145
Major Endorsement in Biology with a Minor Endorsement in a Second Field	
*Upper-division BIOL, BOT, and ZOOL courses to total 30 biology credits, including one ZOOL course and BOT course This represents a minimum: students should take more biology courses if possible, including BIOL 205 Introductory Microbiology.	9
Minor endorsement in a second field	20-32
Total	148-161

Biology Minor Certification Endorsement	
Course Number and Title	**Credits**
BIOL 191-192 General Biology I & II	8
BIOL 301 Cell Biology	3
BIOL 323 Ecology	4
BIOL 343 Genetics Lecture	3
BIOL 401 Organic Evolution	3
Physiology (one course) BOT 401 Plant Physiology ZOOL 401 Human Physiology ZOOL 409 General and Comparative Physiology	4
Total	25

The pre-forestry and pre-wildlife management program is designed to satisfy the lower division course work typically completed during the freshman and sophomore year in a school of forestry. 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. Alternatively, students may choose to earn a bachelors degree in biology from Boise State and guide their elective course work to help qualify for professional certification as a wildlife biologist by The Wildlife Society (see http://www.wildlife.org/about/index.cfm for details). A number of our students have successfully entered fisheries and wildlife positions. Success is increased with relevant experience. In addition, a B.S. in Biology from Boise State provides excellent preparation for masters and Ph.D. programs in wildlife and fisheries biology.

Pre-Forestry and Pre-Wildlife Management	
Course Number and Title	**Credits**
ENGL 101-102 English Composition ENGL 202 Technical Communication	6 3
Area I core courses	6
COMM 101 Fundamentals of Speech ECON 202 Principles of Microeconomics Area II core course	3 3 3
BIOL 191-192 General Biology I & II BIOL 323 Ecology	8 4
CHEM 101-102 Essentials of Chemistry	8
ITM 104 Operating Systems and Word Processing Topics **AND** ITM 105 Spreadsheet Topics **AND** ITM 106 Database Topics	1 1 1
MATH 160 Survey of Calculus **OR** MATH 170 Calculus I MATH 254 Applied Statistics with Computers	4 4
Total	55

Notes: 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, 343, 401, 427, 433, BOT 305,401,424, CHEM 431, ECON 201, 333, GEOS 101, 305, 451, MKTG 301, PHYS 111-112, ZOOL 301, 341, 409, 421, 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 65 for a definition of the course-numbering system.

BIOL—BIOLOGY

Lower Division

BIOL 100 CONCEPTS OF BIOLOGY (3-2-4)(F/S)(Area III). An introduction to the fundamental biological principles of cell and molecular biology, genetics, ecology, and evolution. Introduction to organismal diversity, physiology, and morphology.

BIOL 101 BIOLOGY FOR PRE-K – 8 TEACHERS (3-2-4)(S). Fundamental biological principles of cell and molecular biology, genetics, ecology, and evolution. Organismal diversity, physiology, and morphology. Guidance for teachers of Pre-K – 8 students in incorporation of material into the classroom. Restriction: Early Childhood Education, Elementary Education, Elementary Education Bilingual/ESL, and Special Education majors only.

BIOL 107 INTRODUCTION TO HUMAN BIOLOGY (3-2-4)(F,S)(Area III). An introduction to human structure and function and the interrelationships of various human systems. Homeostasis, disease, health and their relationships to human anatomy and physiology. This is a nonmajor course that does not satisfy biology or allied health program requirements.

BIOL 109 (BOT 109) PLANTS AND SOCIETY (3-2-4)(F)(Area III)(Diversity). 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)(Area III). 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 108 or appropriate placement score.

BIOL 192 GENERAL BIOLOGY II (3-3-4)(F,S)(Area III). 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). 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 105 or CHEM 111, 111L, and BIOL 227-228 or BIOL 191-192.

BIOL 227-228 HUMAN ANATOMY AND PHYSIOLOGY (3-3-4)(Area III). 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, COMPSCI 115, 117, 119, or MATH 147.

BIOL 279, 479 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)(S). 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 310-310G PATHOGENIC BACTERIOLOGY (2-6-4)(S)(Odd years). Medically important bacteria, rickettsia, and chlamydia are surveyed with emphasis on their pathogenicity, host-parasite relationships, and the clinical and diagnostic aspects of the diseases they produce in humans and animals. PREREQ: BIOL 303 and BIOL 301.

BIOL 323 ECOLOGY (3-3-4)(F,S). A survey of how physical and biological factors determine the abundance and distribution of plants and animals. Concepts at the physiological, population, community, and ecosystems level will be discussed. Field and laboratory exercises will investigate questions concerning habitat, populations, and communities. Weekend field trips may be taken. PREREQ: BIOL 191-192 and MATH 254.

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

BIOL 344-344G 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 347 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 191-192.

BIOL 351 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 401-401G ORGANIC EVOLUTION (3-0-3)(S). 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 412-412G 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 415-415G APPLIED AND ENVIRONMENTAL MICROBIOLOGY (3-3-4)(S). Microbial populations and processes in soil and water. Water- and food-borne pathogens. Microbial and biochemical methods of environmental assessment. PREREQ: BIOL 303, and CHEM 301-302 or CHEM 307-308, or PERM/INST.

BIOL 420-420G IMMUNOLOGY (3-0-3)(F). 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 441 MOLECULAR BIOLOGY OF CANCER (3-0-3)(S). A treatment of the basic biology of cancer and the process of tumor progression. Topics examined will include oncogenes, tumor suppressor genes, and the causes of cancer. PREREQ: BIOL 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.

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 351 recommended.

BIOL 445-445G 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 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 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, 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)(Area III)(Diversity). 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 302-302G 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 305-305G 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 311-311G PLANT DIVERSITY AND EVOLUTION (3-3-4)(S)(Even years). A comparative study of the structure, function, reproduction, and development of major plant groups. Phylogeny, paleobotany, and economic importance of various plant groups will be considered. PREREQ: BIOL 191-192 or PERM/INST.

BOT 330-330G 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 401-401G PLANT PHYSIOLOGY (3-3-4)(F)(Odd years). 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 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 301-301G 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 305-305G ENTOMOLOGY (2-6-4)(F). The general anatomy, physiology and developmental biology of insects, and ecological and evolutionary relationships and interactions of insects with humans. Field trips to collect and identify local species. PREREQ: BIOL 191-192 or PERM/INST.

ZOOL 307 INVERTEBRATE ZOOLOGY (2-6-4)(S)(Alternate years). Morphology, taxonomy, and natural history of the marine invertebrate animals and terrestrial arthropods exclusive of the insects. PREREQ: BIOL 191-192 or PERM/INST.

ZOOL 341-341G 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 400-400G 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). 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 403-403G (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)(S). 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 421-421G 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

Botany—see Department of Biological Sciences

Biomedical Engineering Minor

College of Arts and Sciences/ College of Engineering

Engineering & Technology Building, Room 201 Telephone: 208 426-5653
e-mail: MSabick@BoiseState.edu

Coordinator: Michelle Sabick. *Advisors: Biology:* Jorcyk, Oxford, Rohn, Serpe, Smith, Tinker, Wingett; *Chemistry:* Charlier, Cornell, Fujiwara, Schimpf, Shadle, Warner; *Engineering:* Barney Smith, Butt, Callahan, Frary, Gardner, Guarino, Knowlton, Moll, Mullner, Paris, Sabick, Tennyson; *Kinesiology:* DeBeliso, Harris, McChesney, Pfeiffer; *Physics:* Kim.

The biomedical engineering minor is an interdisciplinary program that teaches the fundamentals of biomedical engineering. The minor allows students to develop an emphasis area in biomedical engineering.

Biomedical Engineering Minor	
Course Number and Title	**Credits**
BIOL 191 General Biology I **OR** BIOL 227/ME 277/MSE 277 Human Anatomy and Physiology BIOL 477 Biomaterials	4 3
CHEM 307 Organic Chemistry I **OR** ENGR 245 Introduction to Materials Science and Engineering	3
ENGR 205 Mechanics/Statics **OR** ENGR 210 Engineering Statics **OR** PHYS 341 Mechanics	3
ME 456 Introduction to Solid Biomechanics	3
Courses chosen from the following list: BIOL 191-192 General Biology I & II BIOL 227-228 Human Anatomy and Physiology CHEM 307, 308 Organic Chemistry I and Lab CHEM 309, 310 Organic Chemistry II and Lab CHEM 431 Biochemistry I ECE 456 Pattern Recognition ECE 457 Digital Image Processing ENGR 245 Introduction to Materials Science and Engineering HLTHST 101 Medical Terminology KINES 270, 271 Applied Anatomy and Lab MSE 488 Biocompatibility and Environmental Degradation PHYS 106 Radiological Physics PHYS 307 Introduction to Biophysics	6-8
TOTAL	22-24

Business Minor

College of Business and Economics

Business Building, Room 116 Telephone 208 426-3859
http://cobe.boisestate.edu Fax 208 426-4989
e-mail: stuserv@boisestate.edu

Students seeking a business minor must register with the Student Services Center in the College of Business and Economics. A student pursuing a major other than business at Boise State may earn a business minor by satisfying the requirements listed below, in addition to requirements of the student's major.

Business Minor	
Course Number and Title	**Credits**
ACCT 205 Introduction to Financial Accounting ACCT 206 Introduction to Managerial Accounting	3 3
BUSSTAT 207 Statistical Techniques for Decision Making I 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 ECON 202 Principles of Microeconomics	3 3
GENBUS 202 The Legal Environment of Business	3
Upper-division business courses At least two subject areas of business must be represented.	12
Total	30
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

College of Social Sciences and Public Affairs

Public Affairs and Arts West, Room 127 Telephone 208 426-3280
e-mail: rburkha@boisestate.edu Fax 208 426-4370

Contact: Co-directors: Ross Burkhart and Lori Hausegger

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, and the liberal arts are encouraged to pursue the program. Upon successful completion of the 18 credit hours, students receive a certificate of completion from the Canadian government.

Canadian Studies Minor	
Course Number and Title	**Credits**
CANSTD 301 Investigating Canada: A Preliminary Survey CANSTD 302 Controversial Issues in Contemporary Canada	3 3
*Interdisciplinary courses chosen from list below	12
Total	18
*Courses that will meet the 12 hours of electives to be chosen from two or more disciplines: ANTH 209, ANTH 307, ANTH 312, CANSTD Special Topics and Workshop courses in Canadian Studies, FRENCH 202, FRENCH 485, POLS 327.	

Course Offerings

See page 65 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/Nursing Building, Room 339 Telephone 208 426-3000
http://chemistry.boisestate.edu Fax 208 426-1311 or 208 426-3027
e-mail: chemistry@chem.boisestate.edu

Chair and Professor: Clifford LeMaster. *Professors:* Mercer, Russell, Schimpf, Shadle. *Associate Professors:* Bammel, Charlier. *Assistant Professors:* Brown, Cornell, McDougal, Peloquin, Warner. *Special Lecturers:* Force, Hammond, LeMaster, McCormick, Thie.

Degrees Offered

- B.S. in Chemistry, ACS certified Biochemistry Emphasis
- B.S. in Chemistry, Biochemistry Emphasis
- B.S. in Chemistry, Business Emphasis
- B.S. in Chemistry, Forensics Emphasis
- B.S. in Chemistry, General Emphasis
- B.S. in Chemistry, Geochemistry Emphasis
- B.S. in Chemistry, Pre-Medical Emphasis
- B.S. in Chemistry, Professional Emphasis
- B.S. in Chemistry, Secondary Education
- 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 six emphases (Biochemistry, Business, Forensic Science, General, Geochemistry, and Pre-Medical) and two ACS certified emphases (Professional and Biochemistry) in the Bachelor of Science degree in Chemistry as well as the Chemistry, Secondary Education Bachelor of Science degree (described later). 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 Bachelor of Science	
Course Number and Title	**Credits**
ENGL 101-102 English Composition	6
Area I—see page 45 for list of approved courses	
Area I core course in one field	3
Area I core course in a second field	3
Area I core course in a third field	3
Area I core course in any field	3
Area II—see page 45 for list of approved courses	
Area II core course in one field	3
Area II core course in a second field	3
Area II core course in a third field	3
Area II core course in any field	3
Area III	
Area III requirements are automatically met by specific courses included in the major requirements below.	
CHEM 111, 111L-112, 112L General Chemistry I and II with Labs	9
CHEM 211, 212 Analytical Chemistry I and Lab	5
CHEM 307, 308, 309, 310 Organic Chemistry and Labs	10
CHEM 321, 322 Physical Chemistry Lecture	6
CHEM 323, 324 Advanced Chemistry Laboratory I and II	4
CHEM 495 Directed Research in Chemistry	2
CHEM 498 Chemistry Seminar	2
MATH 170 Calculus I	4
MATH 175 Calculus II	4
MATH 275 Multivariable and Vector Calculus	4
PHYS 211, 211L, 212, 212L Physics I, II with Calculus and Labs	10
ACS certified Biochemistry Emphasis	
BIOL 191 General Biology I	4
BIOL 301 Cell Biology	3
BIOL 343 Genetics	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 128 credits	14
Total	128
Biochemistry Emphasis	
BIOL 191 General Biology I	4
BIOL 301 Cell Biology	3
BIOL 343 Genetics	3
CHEM 431, 432, 433 Biochemistry and Lab	8
One or more additional courses chosen from the following for a minimum of 3 credits: CHEM 422 Advanced Topics in Chemistry CHEM 440 Spectrometric Identification	3
Electives to total 128 credits	17
Total	128
Business Emphasis	
ACCT 205 Intro to Financial Accounting	3
ACCT 206 Intro to Managerial Accounting	3
BUSSTAT 207 Statistical Techniques **OR** MATH 254 Applied Statistics	3-4

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Chemistry (continued)	
*ECON 201 Principles of Macroeconomics *ECON 202 Principles of Microeconomics * Satisfies area II core requirements	(3) (3)
GENBUS 202 Legal Environment of Business	3
Upper-division courses in Economics or Accounting (at least two areas)	12
Upper-division electives to total 40 credits	4
Electives to total 128 credits	9-10
Total	128
Forensics Emphasis	
BIOL 191 General Biology I	4
BIOL 301 Cell Biology	3
BIOL 343 Genetics	3
BIOL 347 Forensic Biology	3
CHEM 431, 432, 433 Biochemistry I, II and Lab	8
CHEM 440 Spectrometric Identification	3
CJ 101 Introduction to Criminal Justice	3
CJ 375 Law of Criminal Evidence	3
Electives to total 128 credits	8
Total	128
General Emphasis	
CHEM 412 Advanced Chemistry Laboratory III	2
CHEM 401 Advanced Inorganic Chemistry	3
CHEM 411 Analytical Chemistry II	3
One or more additional courses chosen from the following for a minimum of 3 credits: CHEM 422 Advanced Topics in Chemistry CHEM 440 Spectrometric Identification	3
Upper-division electives to total 40 credits	5
Electives to total 128 credits	22
Total	128
Geochemistry Emphasis	
CHEM 401 Advanced Inorganic Chemistry	3
CHEM 411 Analytical Chemistry II	3
GEOS 100 Fundamentals of Geology	3
GEOS 300 Earth Materials	4
GEOS 425 Geochemistry	3
Two additional upper-division courses in Geology	6
Upper-division electives to total 40 credits	1
Electives to total 128 credits	15
Total	128
Pre-Medical Emphasis	
BIOL 191-192 General Biology I, II and Lab	8
BIOL 301 Cell Biology	3
BIOL 343 Genetics	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: CHEM 422 Advanced Topics in Chemistry CHEM 440 Spectrometric Identification	3
Electives to total 128 credits	13
Total	128

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Chemistry (continued)	
Professional Emphasis	
CHEM 412 Advanced Chemistry Laboratory III	2
CHEM 401 Advanced Inorganic Chemistry	3
CHEM 411 Analytical Chemistry II	3
CHEM 431 Biochemistry	3
One or more additional courses chosen from the following for a minimum of 3 credits: CHEM 422 Advanced Topics in Chemistry CHEM 440 Spectrometric Identification	3
Upper-division electives to total 40 credits	2
Electives to total 128 credits	22
Total	128
NOTE: 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 and II with Labs	9
CHEM 211, 212 Analytical Chemistry I and Lab	5
CHEM 307, 308, 309 Organic Chemistry and Lab	8
Total	22

The Chemistry, 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 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.

Chemistry, Secondary Education Bachelor of Science	
Course Number and Title	**Credits**
ENGL 101-102 English Composition	6
Area I—see page 45 for list of approved courses	
Area I core course in one field	3
Area I core course in a second field	3
Area I core course in a third field	3
Area I core course in any field	3
Area II—see page 45 for list of approved courses	
ED-CIFS 201 Foundations of Education	3
Area II core course in a second field	3
Area II core course in a third field	3
Area II core course in any field	3
Area III	
Area III requirements are automatically met by specific courses included in the major requirements below.	
BIOL 191-192 General Biology I & II	8

—continued—

Chemistry, Secondary Education (continued)	
CHEM 111, 111L-112, 112L General Chemistry I and II with Labs	9
CHEM 211, 212 Analytical Chemistry I and Lab	5
CHEM 307, 308, 309, 310 Organic Chemistry and Labs	10
CHEM 321, 322 Physical Chemistry Lecture	6
CHEM 323 Advanced Chemistry Laboratory I	2
CHEM 431 Biochemistry	3
*ED-CIFS 301 Teaching Experience I	1
*ED-CIFS 302 Learning and Instruction	4
*ED-CIFS 401 Professional Year—Teaching Experience II	2
*ED-CIFS 404 Teaching Secondary Science	3
*ED-LTCY 444 Content Literacy for Secondary Students	3
*ED-SPED 350 Teaching Students with Exceptional Needs at the Secondary Level	3
*Teaching Experience III/IV NOTE: *You must apply for admission to secondary teacher education in order to enroll in these upper-division education courses. Completion of all requirements for graduation with a secondary education option may require more than 128 credit hours. See "Department of Curriculum, Instruction, and Foundational Studies" for more information.	16
EDTECH 202 Educational Technology – Classroom Applications	3
MATH 170 Calculus I	4
MATH 175 Calculus II	4
MATH 275 Multivariable and Vector Calculus	4
PHYS 211, 211L-212, 212L Physics I & II with Calculus and Lab	10
Total	130

Chemistry Minor Certification Endorsement	
Course Number and Title	**Credits**
CHEM 111, 111L-112, 112L General Chemistry I and II with Labs	9
CHEM 301, 302 Survey of Organic Chemistry and Lab	5
Courses in analytical, physical, inorganic, or biochemistry	8
Total	22

Course Offerings

See page 65 for a definition of the course-numbering system.

CHEM—CHEMISTRY

Lower Division

CHEM 99 PREPARATION FOR CHEMISTRY (2-0-0). Preparation course for students who intend to take CHEM 105 or 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)(S)(Area III). 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)(Area III). The first semester of a sequence course for nonscience majors who require only one year of chemistry. Basic concepts of inorganic and organic chemistry. PREREQ: MATH 25 or satisfactory placement score. COREQ: CHEM 101L.

CHEM 101L ESSENTIALS OF CHEMISTRY I LABORATORY (0-3-1)(Area III). Lab to accompany CHEM 101. COREQ: CHEM 101.

CHEM 102 ESSENTIALS OF CHEMISTRY II (3-0-3)(Area III). A continuation of CHEM 101 to include basic concepts of biochemistry. PREREQ: CHEM 101. COREQ: CHEM 102L.

CHEM 102L ESSENTIALS OF CHEMISTRY II LABORATORY (0-3-1)(Area III). Lab to accompany CHEM 102. COREQ: CHEM 102.

CHEM 105 ACCELERATED ESSENTIALS OF CHEMISTRY (4-0-4). Chemistry and its importance to fields of study in health sciences. Basic concepts of inorganic and organic chemistry and biochemistry. Assumes that students without one year of high school chemistry have completed a semester preparative course such as CHEM 99 or CHEM 100. PREREQ: MATH 25 or satisfactory placement score. COREQ: CHEM 105L.

CHEM 105L ACCELERATED ESSENTIALS OF CHEMISTRY LABORATORY (0-3-1). Lab to accompany CHEM 105. COREQ: CHEM 105.

CHEM 111 GENERAL CHEMISTRY I (3-0-3)(Area III). 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)(Area III). Lab to accompany CHEM 111. COREQ: CHEM 111.

CHEM 112 GENERAL CHEMISTRY II (3-0-3)(Area III). 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 (1-3-2)(Area III). Lab to accompany CHEM 112. COREQ: CHEM 112.

CHEM 115 MATERIALS SCIENCE CHEMISTRY (3-3-4)(F)(Area III). Chemistry and physics as they are applied to the electronics and semiconductor industry. PREREQ: MATH 25 or satisfactory placement score.

CHEM 211 ANALYTICAL CHEMISTRY I (3-0-3)(S). Study of the equilibrium relationships and methods used in gravimetric, volumetric, and some instrumental analysis. PREREQ: CHEM 112, CHEM 112L, MATH 143 and MATH 144 or MATH 147 or equivalent.

CHEM 212 ANALYTICAL CHEMISTRY I LABORATORY (0-5-2)(S). Practical application of analytical techniques through analysis of unknown samples using gravimetric, volumetric, and instrumental methods. PRE/COREQ: CHEM 211.

CHEM 286/386 DIRECTED READING IN CHEMISTRY (1-0-1). 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 296/396 RESEARCH IN CHEMISTRY (VARIABLE CREDIT). 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, 322 PHYSICAL CHEMISTRY LECTURE (3-0-3)(F/S). Comprehensive study of the theoretical aspects of physical-chemical phenomena. Emphasis is placed on classical and statistical thermodynamics, kinetics, symmetry, spectroscopy, and quantum chemistry. A year's sequence (fall and spring). PREREQ: CHEM 309, MATH 275 or equivalent, PHYS 212 and 212L or PERM/INST.

CHEM 323 ADVANCED CHEMISTRY LABORATORY I (0-6-2)(F). Integrates concepts and procedures from several subdisciplines including analytical, physical, inorganic and biochemistry. Topics include chemical synthesis and preparation, separation, isolation, spectroscopic characterization, quantification and characterization of various analytes, as well as characterization of physical properties and the processes involved, technical report writing, computational chemistry, use of the chemical literature, and computerized data acquisition. PREREQ: CHEM 211/212 and CHEM 310. PRE/COREQ: CHEM 321.

CHEM 324 ADVANCED CHEMISTRY LABORATORY II (0-6-2)(S). A continuation of CHEM 323. PREREQ: CHEM 323. 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 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 411-411G 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 ADVANCED CHEMISTRY LABORATORY III (0-6-2)(S). A continuation of CHEM 324. PREREQ: CHEM 324. PRE/COREQ CHEM 411.

CHEM 422 ADVANCED TOPICS IN CHEMISTRY (1-3 credits)(Offered 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 431-431G BIOCHEMISTRY I (3-0-3)(F). A study of the chemistry of biologically important compounds and an introduction to metabolism. PREREQ: CHEM 301 or CHEM 309.

CHEM 432-432G BIOCHEMISTRY LABORATORY (0-6-2)(F/S). Identification, isolation, and reactions of biologically important compounds. PREREQ: CHEM 431.

CHEM 433-433G 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 440-440G SPECTROMETRIC IDENTIFICATION (3-0-3)(S). Identification of compounds using modern spectrometric techniques. PREREQ: CHEM 309 and CHEM 321.

CHEM 441-441G SPECTROMETRIC IDENTIFICATION LABORATORY (0-3-1)(S). Laboratory course to accompany CHEM 440-440G. PREREQ: CHEM 310. COREQ: CHEM 440-440G.

CHEM 443-443G 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). 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)(S). Group discussions of individual reports on selected topics in the various fields of chemistry. PREREQ: Chemistry major and senior standing.

Chiropractic, Pre-Professional Program—see Department of Community and Environmental Health

Department of Civil Engineering

College of Engineering

Engineering and Technology Building, Room 201 Telephone 208 426-3764
http://coen.boisestate.edu/ce/home.asp Fax 208 426-4800

Chair and Associate Professor: Robert Hamilton. *Professor:* Gribb. *Associate Professors:* Haws, Khanal, Murgel. *Assistant Professor:* Farid, Miller, Sridhar.

Degrees Offered

- B.S. and Minor in Civil Engineering (B.S.C.E.)
- M.Engr. in Civil Engineering (See the *BSU Graduate Catalog*)
- M.S. in Civil Engineering (See the *BSU Graduate Catalog*)
- M.S. in Hydrologic Sciences (See the *BSU Graduate Catalog*)

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.

Program Educational Objectives

Upon successful completion of the Civil Engineering undergraduate course of study, graduates can be expected to:

1. Use their technical knowledge and expertise in math, science, and engineering to identify, formulate and solve problems involving design, experimentation, and/or analysis for a wide variety of Civil Engineering applications.
2. Demonstrate a proficiency in all forms of communication, perform well in a multi-disciplinary team environment and demonstrate the highest standards of personal and professional integrity and ethical responsibility.
3. Demonstrate an understanding of contemporary issues relating to the ethical, economic, and social contexts of our local, national, and global society in association with their professional work responsibilities.
4. Continue their education, both formally and informally, through use of their developed research and study skills and utilization of formal continuing education opportunities locally and elsewhere.

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 Civil 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. Students also take a required reinforced concrete design course. 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 B.S.C.E.

Course Number and Title	Credits
ENGL 101-102 English Composition	6
Area I—see page 45 for list of approved courses	
Area I core course in one field	3
Area I core course in a second field	3
Area I core course in any field	3
Area II—see page 45 for list of approved courses	
COMM 101 Fundamentals of Speech Communication	3
Area II core course in a second field	3
Area II core course in any field	3
Area III	
Area III requirements are automatically met by specific courses included in the major requirements below.	
CE 210, 211 Engineering Surveying and Lab	3
CE 280 Civil Engineering Case Studies	2
CE 320, 321 Principles of Environmental Engineering and Lab	4
CE 341 Construction Materials Lab	1
CE 352 Structures I	3
CE 360, 361 Engineering Properties of Soils and Lab	4
CE 370 Transportation Engineering Fundamentals	3
CE 400 Engineering Practice	3
CE 450 Reinforced Concrete Design	3
CE 480 Senior Design Project	4
CHEM 111, 111L-112, 112L General Chemistry I and II with Labs	9
CMGT 240 Introduction to Construction Management	3
ENGL 202 Technical Communication	3
ENGR 120 Introduction to Engineering	3
ENGR 210 Engineering Statics	3
ENGR 220 Engineering Dynamics	3
ENGR 240 Electrical and Electronic Circuits	3
ENGR 245 Introduction to Materials Science & Engineering **OR** CE 340 Engineering Properties of Construction Materials	3
ENGR 320 Thermodynamics I	3
ENGR 330, 331 Fluid Mechanics and Lab	4
ENGR 350 Engineering Mechanics of Materials	3
MATH 170, 175 Calculus I, and Calculus II	8
MATH 275 Multivariable and Vector Calculus	4
MATH 333 Differential Equations with Matrix Theory	4
PHYS 211, 211L-212, 212L Physics I & II with Calculus and Lab	10
*Civil Engineering Design elective	3
*Civil Engineering Technical electives	3
*Science elective	3-4
*Technical electives	3
Total	132-133

Note: *All university core courses and technical and design electives must be approved by the student's advisor.

Civil Engineering Minor	
Course Number and Title	**Credits**
Three of the following: CE 320, 321 Principles of Environmental Engineering and Lab CE 340, 341 Engineering Properties of Construction Materials and Lab CE 352 Structures I CE 360, 361 Engineering Properties of Soils and Lab CE 370 Transportation Engineering Fundamentals ENGR 330, 331 Fluid Mechanics and Lab	10-12
Upper-division Civil Engineering courses	7-9
Total	19

Course Offerings

See page 65 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/S). 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 and sophomore standing.

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 320 PRINCIPLES OF ENVIRONMENTAL ENGINEERING (3-0-3)(F/S). Treatment of domestic and industrial water supplies. Disposal of domestic sewage and industrial wastes. Environmental considerations in water management, water use, waster water generation, and water quality. Design of water and wastewater treatment systems. PREREQ: CHEM 112.

CE 321 PRINCIPLES OF ENVIRONMENTAL ENGINEERING LAB (0-3-1)(F/S). Environmental engineering problems with emphasis on analysis and presentation. Significance of results as compared with theory and practice. PRE/COREQ: CE 320.

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: ENGR 306 or ENGR 350.

CE 341 CONSTRUCTION MATERIALS LAB (0-3-1)(F/S). Evaluation of materials used in construction. PREREQ: ENGR 350 or ENGR 306.

CE 352 STRUCTURES I (3-0-3)(F/S). Analysis and design of statically determinate and indeterminate structures, under static or moving loads, using classical methods. Equilibrium, stress-strain relations, and compatibility. PREREQ: ENGR 306 or ENGR 350.

CE 354 STRUCTURES II (3-0-3)(S)(Odd years). 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. PREREQ: ENGR 306 or ENGR 350.

CE 361 ENGINEERING PROPERTIES OF SOILS LAB (0-3-1)(F/S). Use of test apparatus in the evaluation of soils. PRE/COREQ: CE 360.

CE 370 TRANSPORTATION ENGINEERING FUNDAMENTALS (3-0-3)(F/S). Planning, design, and operations of multi-modal transportation systems. PRE/COREQ: MATH 275.

CE 390 CODES AND OFFICIAL DOCUMENTS (3-0-3)(S)(Even years). 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 400 ENGINEERING PRACTICE (3-0-3)(F). Engineering applications of probability and statistics, project management and engineering economics. PREREQ: CE 280. PRE/COREQ: CE 320, CE 352, and CE 360; or PERM/INST.

CE 412 (GEOS 412) HYDROGEOLOGY (3-0-3)(F). The study of subsurface water and its relationship to surface water, the hydrologic cycle, and the physical properties of aquifer systems. Flow nets and flow through porous and fractured media. Methods of determination of aquifer characteristics and performance and groundwater modeling. May be taken for either CE or GEOS credit, but not both. PREREQ: MATH 175, junior standing.

CE 416 (GEOS 416)(GEOPH 416) HYDROLOGY(3-0-3)(S). 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, GEOPH, or CE credit, but not in more than one department. PREREQ: MATH 175 or PERM/INST.

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: CHEM 112, 112L or PERM/INST.

CE 422 HAZARDOUS WASTE ENGINEERING (3-0-3)(F/S). Physical, chemical, and biological treatment of hazardous wastes. Consideration of legal and political issues. PREREQ: CHEM 112.

CE 424 WATER TREATMENT PLANT SYSTEMS AND DESIGN (3-0-3)(S)(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 or PERM/INST.

CE 425 WASTEWATER TREATMENT PLANT SYSTEMS AND DESIGN (3-0-3)(F)(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 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: ENGR 330.

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: 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 452-452G 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 460-460G 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 AND TRAFFIC SYSTEMS DESIGN (2-2-3)(F/S). Planning, design, and operations of urban and rural highway systems. PREREQ: CE 360 and CE 370.

CE 472 TRANSPORTATION PLANNING (3-0-3)(S)(Odd years). 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 ENGINEERING (3-0-3)(F)(Odd years). The course covers the theory and practice of traffic operations, control, and management. Topics covered include traffic signal systems, isolated and area-wide signal system operations, and traffic simulation. 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 course work 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 400. PRE/COREQ: CE 370 and either CE 340 or ENGR 245.

Coaching—see Department of Kinesiology

Department of Communication

College of Social Sciences and Public Affairs

Communication Building, Room 100 Telephone 208 426-3320
http://comm.boisestate.edu Fax 208 426-1069
e-mail: commdept@boisestate.edu

Chair and Associate Professor: Rick Moore. *Professors:* McCorkle, McLuskie. *Associate Professors:* Lutze, Most, Reeder, Rudd, Traynowicz, Wollheim. *Assistant Professors:* Casper, Dube, Hall, Morris, Nelson Marsh.

Degrees Offered

- B.A. and Minor in Communication
- B.A. in Mass Communication/Journalism
- B.A. in Communication, Secondary Education
- B.A. in Communication/English, Journalism Emphasis
- B.A. in Communication/English, Humanities/Rhetoric Emphasis
- M.A. in Communication (See the *BSU Graduate Catalog.*)
- 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.

Students may enrich their learning through participation in the campus newspaper (*The Arbiter*), KBSU Radio, student radio (University Pulse), University Television Productions, intercollegiate debate and speech competition, 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. A total of 9 credits of any combination of internships, independent study, practica, or communication activities may count toward departmental major requirements; additional credits may count toward general education electives.

Degree Requirements

Communication Bachelor of Arts	
Course Number and Title	**Credits**
ENGL 101-102 English Composition	6
Area I—see page 45 for list of approved courses	
Area I core course in literature	3
Area I core course in a second field	3
Area I core course in a third field	3
Area I core course in any field	3
Area II—see page 45 for list of approved courses	
Area II core course in history	3
Area II core course in a second field	3
Area II core course in a third field	3
Area II core course in any field Communication majors may use COMM 101 or COMM 112, but not both, to satisfy Area II requirements.	3
Area III—see page 45 for list of approved courses	
Area III core course in a mathematics	3-5
Area III core course in a second field	4
Area III core course in any field	4
Additional Area I and II courses Communication majors may not use communication courses to satisfy additional Area I or II requirements.	9

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Communication (continued)	
Communication Arts (choose one from the following) COMM 131 Listening COMM 211 Voice Study for Media and Live Performance COMM 231 Public Speaking COMM 268 Introduction to Video Production COMM 269 Introduction to Audio Production COMM 273 Reporting and News Writing	3
Communication Contexts (choose one from the following) COMM 221 Interpersonal Communication COMM 341 Nonverbal Communication COMM 351 Intercultural Communication COMM 356 Communication in the Small Group COMM 361 Organizational Communication COMM 390 Conflict Management	3
Analysis and Criticism/Research (choose one from the following) COMM 302 Research Methods COMM 304 Perspectives of Inquiry COMM 331 Message Analysis and Criticism COMM 332 Contemporary Public Communication COMM 360 Media Aesthetics and Culture COMM 365 Film Styles and Genres	3
Communication Theory & Philosophy (choose one from the following) COMM 321 Rhetorical Theories COMM 421 Theory and Philosophy of Communication COMM 431 Small Group Theory and Research COMM 466 Communication Technology and Social Change COMM 467 Mass Communication and Democracy	3
Advanced Studies in Communication (choose one from the following) COMM 363 Advanced Journalistic Writing COMM 368 Advanced Audio Production COMM 370 Advanced Video Production COMM 432 Advanced Organizational Communication COMM 441 Advanced Public Presentation COMM 471 Advanced Interpersonal Communication COMM 475 Advanced Studies in Communication Theory & Philosophy COMM 489 Advanced Studies in Media COMM 498 Communication Seminar	3
Communication elective credits At least 18 of these credits must be upper-division.	21
Upper-division electives to total 40 credits Credits from all 300- and 400-level courses, whether elective or required, are applicable. The number in the right-hand column is the approximate number of additional upper-division credits required beyond those automatically accumulated in satisfying the communication requirement.	10-13
Electives to total 128 credits The number in the right-hand column is the approximate number of elective credits remaining that can be taken at either the upper- or lower-division levels.	25-31
Total	128

Mass Communication/Journalism Bachelor of Arts	
Course Number and Title	**Credits**
ENGL 101-102 English Composition	6
Area I—see page 45 for list of approved courses	
Area I core course in literature	3
Area I core course in a second field	3
Area I core course in a third field	3
Area I core course in any field	3

—continued—

Mass Communication/Journalism (continued)	
Area II—see page 45 for list of approved courses	
Area II core course in history	3
Area II core course in a second field	3
Area II core course in a third field	3
Area II core course in any field Communication majors may use COMM 101 or COMM 112, but not both, to satisfy Area II requirements.	3
Area III—see page 45 for list of approved courses	
Area III core course in a mathematics	3-5
Area III core course in a second field	4
Area III core course in any field	4
Additional Area I and II courses Communication majors may not use communication courses to satisfy additional Area I or II requirements.	9
Communication Arts (choose one from the following) COMM 131 Listening COMM 211 Voice Study for Media and Live Performance COMM 231 Public Speaking COMM 268 Introduction to Video Production COMM 269 Introduction to Audio Production COMM 273 Reporting and News Writing	3
Communication Contexts (choose one from the following) COMM 221 Interpersonal Communication COMM 341 Nonverbal Communication COMM 351 Intercultural Communication COMM 356 Communication in the Small Group COMM 361 Organizational Communication COMM 390 Conflict Management	3
Analysis and Criticism/Research (choose one from the following) COMM 302 Research Methods COMM 304 Perspectives of Inquiry COMM 331 Message Analysis and Criticism COMM 332 Contemporary Public Communication COMM 360 Media Aesthetics and Culture COMM 365 Film Styles and Genres	3
Communication Theory & Philosophy (choose one from the following) COMM 321 Rhetorical Theories COMM 421 Theory and Philosophy of Communication COMM 431 Small Group Theory and Research COMM 466 Communication Technology and Social Change COMM 467 Mass Communication and Democracy	3
Advanced Studies in Communication (choose one from the following) COMM 363 Advanced Journalistic Writing COMM 368 Advanced Audio Production COMM 370 Advanced Video Production COMM 432 Advanced Organizational Communication COMM 441 Advanced Public Presentation COMM 471 Advanced Interpersonal Communication COMM 475 Advanced Studies in Communication Theory & Philosophy COMM 489 Advanced Studies in Media COMM 498 Communication Seminar	3
At least 2 of the following: COMM 268 Introduction to Video Production COMM 269 Introduction to Audio Production COMM 273 Reporting and News Writing COMM 363 Advanced Journalistic Writing COMM 364 Visual Communication COMM 368 Advanced Audio Production COMM 369 Video Post-Production COMM 370 Advanced Video Production COMM 373 Reporting Public Affairs COMM 486 Studies in Media Production Courses taken to fulfill departmental requirements may also be used to meet these emphasis area requirements.	0-6

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Mass Communication/Journalism (continued)	
At least 4 courses from the following: COMM 360 Media Aesthetics and Culture COMM 362 Legal and Ethical Issues of Mass Media COMM 365 Film Styles and Genres COMM 466 Communication Technology and Social Change COMM 467 Mass Communication and Democracy COMM 487 Studies in Media Theory	6-12
Communication elective credits The number in the right-hand column is the approximate number of additional upper or lower-division Communication elective credits required to attain a total of 36 credits.	0-15
Upper-division electives to total 40 credits Credits from all 300- and 400-level courses, whether elective or required, are applicable. The number in the right-hand column is the approximate number of additional upper-division credits required beyond those automatically accumulated in satisfying the communication requirement.	1-28
Electives to total 128 credits The number in the right-hand column is the approximate number of elective credits remaining that can be taken at either the upper- or lower-division levels.	13-40
Total	128

The Communication, 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 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.

Communication, Secondary Education Bachelor of Arts

Course Number and Title	Credits
ENGL 101-102 English Composition	6
Area I—see page 45 for list of approved courses	
Area I core course in literature	3
Area I core course in a second field	3
Area I core course in a third field	3
Area I core course in any field	3
Area II—see page 45 for list of approved courses	
Area II core course in history	3
Area II core course in a second field	3
Area II core course in a third field	3
Area II core course in any field Communication majors may use COMM 101 or COMM 112, but not both, to satisfy Area II requirements.	3
Area III—see page 45 for list of approved courses	
Area III core course in a mathematics	3-5
Area III core course in a second field	4
Area III core course in any field	4
Additional Area I and II courses Communication majors may not use communication courses to satisfy additional Area I or II requirements.	9

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Communication, Secondary Education (continued)	
Communication Arts (choose one from the following) COMM 131 Listening COMM 211 Voice Study for Media and Live Performance COMM 231 Public Speaking COMM 268 Introduction to Video Production COMM 269 Introduction to Audio Production COMM 273 Reporting and News Writing	3
Communication Contexts (choose one from the following) COMM 221 Interpersonal Communication COMM 341 Nonverbal Communication COMM 351 Intercultural Communication COMM 356 Communication in the Small Group COMM 361 Organizational Communication COMM 390 Conflict Management	3
Analysis and Criticism/Research (choose one from the following) COMM 302 Research Methods COMM 304 Perspectives of Inquiry COMM 331 Message Analysis and Criticism COMM 332 Contemporary Public Communication COMM 360 Media Aesthetics and Culture COMM 365 Film Styles and Genres	3
Communication Theory & Philosophy (choose one from the following) COMM 321 Rhetorical Theories COMM 421 Theory and Philosophy of Communication COMM 431 Small Group Theory and Research COMM 466 Communication Technology and Social Change COMM 467 Mass Communication and Democracy	3
Advanced Studies in Communication (choose one from the following) COMM 363 Advanced Journalistic Writing COMM 368 Advanced Audio Production COMM 370 Advanced Video Production COMM 432 Advanced Organizational Communication COMM 441 Advanced Public Presentation COMM 471 Advanced Interpersonal Communication COMM 475 Advanced Studies in Communication Theory & Philosophy COMM 489 Advanced Studies in Media COMM 498 Communication Seminar	3
Required emphasis courses: COMM 112 Reasoned Discourse COMM 114/314 Communication Activities—Forensics COMM 214/414 Intercollegiate Debate COMM 221 Interpersonal Communication COMM 231 Public Speaking COMM 321 Rhetorical Theories COMM 356 Communication in the Small Group COMM 390 Conflict Management COMM 401 Methods of Teaching Communication Courses taken to fulfill departmental requirements may also be used to meet these emphasis area requirements.	 3 4 2 3 3 3 3 3 3
*ED-CIFS 301 Teaching Experience I *ED-CIFS 302 Learning and Instruction *ED-CIFS 401 Professional Year—Teaching Experience II *ED-LTCY 444 Content Literacy for Secondary Students *ED-SPED 350 Teaching Students with Exceptional Needs at the Secondary Level *Teaching Experience III/IV NOTE: **You must apply for admission to secondary teacher education in order to enroll in these upper-division education courses. It is strongly recommended that students seeking a teacher certification endorsement in communication complete a teaching minor or minors in theatre arts, English, journalism, or other fields commonly taught in secondary schools. A student with a single teaching field must complete at least 45 credits in that field. Completion of all requirements for graduation with a secondary education option may require more than 128 credit hours. See "Department of Curriculum, Instruction, and Foundational Studies" for more information.	1 4 2 3 3 16
EDTECH 202 Educational Technology – Classroom Applications	3

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Communication, Secondary Education (continued)	
Electives to total 128 credits The number in the right-hand column is the approximate number of elective credits remaining that can be taken at either the upper or lower-division levels.	2-4
Total	128

Communication/English
Bachelor of Arts
Journalism or Humanities/Rhetoric Emphasis

Course Number and Title	Credits
ENGL 101-102 English Composition	6
Area I—see page 45 for list of approved courses	
Area I core course in literature Area I core course in a second field Area I core course in a third field Area I core course in any field	3 3 3 3
Area II—see page 45 for list of approved courses	
Area II core course in history Area II core course in a second field Area II core course in a third field Area II core course in any field Communication majors may use COMM 101 or COMM 112, but not both, to satisfy Area II requirements.	3 3 3 3
Area III—see page 45 for list of approved courses	
Area III core course in a mathematics Area III core course in a second field Area III core course in any field	3-5 4 4
Additional Area I and II courses Communication majors may not use communication courses to satisfy additional Area I or II requirements.	9
Communication Arts (choose one from the following) COMM 131 Listening COMM 211 Voice Study for Media and Live Performance COMM 231 Public Speaking COMM 268 Introduction to Video Production COMM 269 Introduction to Audio Production COMM 273 Reporting and News Writing	3
Communication Contexts (choose one from the following) COMM 221 Interpersonal Communication COMM 341 Nonverbal Communication COMM 351 Intercultural Communication COMM 356 Communication in the Small Group COMM 361 Organizational Communication COMM 390 Conflict Management	3
Analysis and Criticism/Research (choose one from the following) COMM 302 Research Methods COMM 304 Perspectives of Inquiry COMM 331 Message Analysis and Criticism COMM 332 Contemporary Public Communication COMM 360 Media Aesthetics and Culture COMM 365 Film Styles and Genres	3
Communication Theory & Philosophy (choose one from the following) COMM 321 Rhetorical Theories COMM 421 Theory and Philosophy of Communication COMM 431 Small Group Theory and Research COMM 466 Communication Technology and Social Change COMM 467 Mass Communication and Democracy	3

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Communication/English (continued)	
Advanced Studies in Communication (choose one from the following) COMM 363 Advanced Journalistic Writing COMM 368 Advanced Audio Production COMM 370 Advanced Video Production COMM 432 Advanced Organizational Communication COMM 441 Advanced Public Presentation COMM 471 Advanced Interpersonal Communication COMM 475 Advanced Studies in Communication Theory & Philosophy COMM 489 Advanced Studies in Media COMM 498 Communication Seminar	3
ENGL 275 Intro to Literary Studies	3
LING 305 Introduction to Language Study	3
British literature or American literature survey course	3
Journalism Emphasis	
COMM 273 Reporting and Newswriting Courses taken to fulfill departmental requirements may also be used to meet these emphasis area requirements.	3
6 credits chosen from the following: COMM 362 Legal and Ethical Issues of Mass Media COMM 466 Communication Technology and Social Change COMM 467 Mass Communication and Democracy COMM 487 Studies in Media Theory Courses taken to fulfill departmental requirements may also be used to meet these emphasis area requirements.	6
Upper-division mass communication or journalism courses Courses taken to fulfill departmental requirements may also be used to meet these emphasis area requirements.	6
English to total 27 credits: Composition above the basic sequence, to be chosen from ENGL 201 Nonfiction Writing, the creative writing sequence, and technical communication. Upper-division literature courses (at least 3 credits in courses before 1800)	9 9
Upper-division electives to total 40 credits Credits from all 300- and 400-level courses, whether elective or required, are applicable. The number in the right-hand column is the approximate number of additional upper-division credits required beyond those automatically accumulated in satisfying the communication requirement.	3-6
Electives to total 128 credits The number in the right-hand column is the approximate number of elective credits remaining that can be taken at either the upper- or lower-division levels.	14-17
Humanities/Rhetoric Emphasis	
COMM 221 Interpersonal Communication COMM 231 Public Speaking **OR** COMM 484 Studies in Rhetoric and Public Presentation COMM 321 Rhetorical Theories **OR** COMM 331 Message Analysis and Criticism Courses taken to fulfill departmental requirements may also be used to meet these emphasis area requirements.	3 3 3
Upper-division communication courses Courses taken to fulfill departmental requirements may also be used to meet these emphasis area requirements.	6
English courses to total 27 credits HUM 207, 208 Intro to Humanities Advanced writing and linguistics Upper-division courses	 3 6 9
Upper-division electives to total 40 credits Credits from all 300- and 400-level courses, whether elective or required, are applicable. The number in the right-hand column is the approximate number of additional upper-division credits required beyond those automatically accumulated in satisfying the communication requirement.	0-16
Electives to total 128 credits The number in the right-hand column is the approximate number of elective credits remaining that can be taken at either the upper- or lower-division levels.	4-29
Total	128

Communication (Speech and Debate) Minor Certification 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 356 Communication in the Small Group	3
COMM 390 Conflict Management	3
COMM 401 Methods of Teaching Communication	3
Total	22

Communication Minor	
Course Number and Title	**Credits**
Students majoring in another department may select a 25 hour communication minor. At least 10 hours of the minor must be upper-division credit. No more than a total of 3 hours may be selected from COMM 114, 293, 314, 451, or 493.	15
At least 10 hours of the minor must be upper-division credit.	10
Total	25

The Certificate in Public Relations serves both current Boise State students and community members who wish additional training and coursework in public relations.

Boise State students may enroll in the Public Relations Certificate program concurrently with work on a bachelor's degree. The certificate functions similar to an academic minor and is awarded after the degree is awarded. Community members who already hold an associate or baccalaureate degree may take the certificate for continuing education.

Public Relations Certificate	
Course Number and Title	**Credits**
COMM 278 Principles of Public Relations	3
COMM 279 Public Relations Campaigns	3
COMM 302 Research Methods	3
COMM 478 Public Relations Techniques	3
COMM 493 Public Relations Internship	6
Advanced PR (Choose one from the following) COMM 362 Legal and Ethical Issues in Mass Media COMM 363 Advanced Journalistic Writing COMM 482 PR Case Studies COMM 482 PR Campaign Design and Analysis	3
Public Relations Specializations (Choose one from the following) COMM 466 Communication Technology and Social Change COMM 482 Promotional Public Relations COMM 482 PR for Diverse Audiences COMM 482 Media Strategy and Planning	3
Total	24
NOTE: The Public Relations Certificate will be awarded following completion of an associate or baccalaureate degree. All courses used toward the Public Relations Certificate must be passed with a grade of C or higher.	

Course Offerings

See page 65 for a definition of the course-numbering system.

COMM—COMMUNICATION

Not more than four credits total of COMM 113, COMM 114, COMM 117, COMM 118, COMM 119, COMM 214, COMM 313, COMM 314, COMM 317, COMM 318, COMM 319 or COMM 414 may be applied toward fulfillment of Communication Departmental major requirements, except as required in the Communication, Secondary Education degree program. Not more than 12 credits total of COMM 114, COMM 214, COMM 117, COMM 118, COMM 119, COMM 314, COMM 317, COMM 318, COMM 319 or COMM 414 may be counted toward any undergraduate degree requirements.

Lower Division

COMM 101 FUNDAMENTALS OF SPEECH COMMUNICATION (3-0-3)(Area II). Fundamental principles of effectively preparing, presenting, and critically consuming messages in one-to-one, small group, and public speaking contexts.

COMM 112 REASONED DISCOURSE (3-0-3)(Area II)(F/S). 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. 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. PREREQ: PERM/INST.

COMM 117 COMMUNICATION ACTIVITIES – UTP (Variable 1 to 3)(F/S). Production of video programming for University Television Productions. PREREQ: PERM/INST.

COMM 118 COMMUNICATION ACTIVITIES – STUDENT RADIO (2-0-1)(F/S). Participation in audio programming for Student Radio. PREREQ: PERM/INST.

COMM 119 COMMUNICATION ACTIVITIES – STUDENT NEWSPAPER (Variable 1 to 3)(F/S). Participation in production of student publications. PREREQ: PERM/INST.

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. COREQ: COMM 114 or 314.

COMM 221 INTERPERSONAL COMMUNICATION (3-0-3). 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 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 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, ability to use keyboard, and PERM/INST.

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). Historical, critical, descriptive, and experimental research methods and tools in communication. Students design, conduct, report, and evaluate research projects.

COMM 304 PERSPECTIVES OF INQUIRY (3-0-3)(F/S). A study of the sources and nature of knowledge, assumptions about knowledge, processes by which knowledge is developed, and perspectives of theoretical inquiry. PREREQ: 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. 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. PREREQ: PERM/INST.

COMM 317 COMMUNICATION ACTIVITIES – UTP (Variable 1 to 3)(F/S). Production of video programming for University Television Productions. PREREQ: PERM/INST.

COMM 318 COMMUNICATION ACTIVITIES – STUDENT RADIO (2-0-1)(F/S). Participation in audio programming for Student Radio. PREREQ: PERM/INST.

COMM 319 COMMUNICATION ACTIVITIES – STUDENT NEWSPAPER (Variable 1 to 3)(F/S). Participation in production of student publications. PREREQ: PERM/INST.

COMM 321 RHETORICAL THEORIES (3-0-3)(F/S). Examination of theories concerning the complexity of interaction among ideas, messages, and people, including analysis of various message strategies.

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). 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 (3-0-3)(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.

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/S). 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)(F/S). Theory and practice of various forms of visual communication, including photography and graphics.

COMM 365 FILM STYLES AND GENRES (3-0-3)(S). In this film studies course students will view a variety of international cinema masterpieces from different periods. Students will learn how to 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 students with the 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 268 or 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 390 (SOC 390) CONFLICT MANAGEMENT (3-0-3)(S). 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 COMM or SOC credit, but not both. PREREQ: COMM 101 or SOC 290, upper-division standing.

COMM 401 METHODS OF TEACHING COMMUNICATION (3-0-3)(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)(F/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 414 INTERCOLLEGIATE DEBATE (1-0-1)(F/S). Preparation for and participation in intercollegiate tournament debate. COREQ: COMM 114 or 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 STUDIES IN ORGANIZATIONAL COMMUNICATION (3-0-3)(F/S). Exploration and analysis of recent theory and research related to advanced topics in organizational communication. PREREQ: COMM 361 and upper-division standing.

COMM 441 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 211 or COMM 231, and upper-division standing.

COMM 451 COMMUNICATION PRACTICUM (Variable 1 to 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 471 ADVANCED INTERPERSONAL COMMUNICATION (3-0-3)(F/S). Examination of recent theory and research related to advanced topics in interpersonal communication. PREREQ: COMM 221 and upper-division standing.

COMM 475 ADVANCED STUDIES IN COMMUNICATION THEORY AND PHILOSOPHY (3-0-3)(F/S). 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: Upper-division standing.

COMM 478 PUBLIC RELATIONS TECHNIQUES (3-0-3)(F). Analysis of public relations media and methods. Public relations as a management tool. Identifying and reaching the various publics. Practice in public relations writing. PREREQ: COMM 279.

NOTE: The next seven courses below cover a variety of technical and theoretical subjects in human communication. They involve a variety of approaches and activities. These courses are scheduled as necessary to meet student and community needs. Consult the Schedule of Classes for specific courses and content offerings. Each general course is repeatable, but the specific topic of study within the course is not repeatable.

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 THE INTER-RELATIONSHIP BETWEEN 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 489 ADVANCED STUDIES IN MEDIA (3-0-3)(F/S). Students produce and present media projects, productions and/or research addressing questions of media theory and practice in a seminar setting. PREREQ: Upper-division standing and at least two courses from the following: COMM 360, COMM 362, COMM 365, COMM 466, COMM 467, COMM 487.

COMM 493 INTERNSHIP (Variable credits). Supervised field work. For more information on internships, see University-Wide Course Numbers 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 Course Numbers in Chapter 11.

COMM 498 COMMUNICATION SEMINAR (3-0-3)(F/S). Students demonstrate their ability to theorize, discover, analyze, evaluate, report, and defend a project about human communication. PREREQ: Senior standing, and completion of at least one course from each of the following departmental categories with a grade of C or better: Communication Arts, Communication Contexts, Communication Analysis and Criticism/Research, Communication Theory and Philosophy.

Department of Community and Environmental Health

College of Health Sciences

Health Science Riverside, Room 101 Telephone 208 426-3929
http://hs.boisestate.edu/CEH/ Fax 208 426-2199

Chair and Professor: Sarah Toevs. *Professors:* Long, Reischl. *Associate Professors:* Elison-Bowers, McDonald, Stephenson. *Assistant Professors:* Baker, Hannah. *Instructor:* Aksamit, Osgood. *Teacher:* Sand. *Advisors:* Hill, Sand.

Degrees Offered

- A.S. and B.S. in Health Informatics and Information Management
- B.S. in Environmental and Occupational Health
- B.S. in Health Science Studies
- B.S. in Pre-Dental Studies
- B.S. in Pre-Medical Studies
- B.S. in Pre-Veterinary Medicine
- Addictions Studies Minor
- M.H.S. in Health Sciences (See *BSU Graduate Catalog.*)
- Graduate Certification in Addiction Studies (See *BSU Graduate Catalog.*)
- Graduate Certification in Gerontological Studies (See *BSU Graduate Catalog.*)
- Graduate Certification in Health Services Leadership (See *BSU Graduate Catalog.*)

Department Statement

Students in this department may choose to study environmental and occupational health, health informatics and information management, 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.

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 course work 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 Informatics and Information Management

Health informatics and information management provides a curriculum for students who wish to combine healthcare with business and information systems. Health informatics and information management professionals possess the skills necessary to manage the staff and/or systems used to code, collect, store, retrieve, and communicate healthcare data that is used for planning, delivery, reimbursement, protection, and evaluation of patient care. Employment is available in a variety of healthcare organizations and other health-related or commercial industry settings. The associate and

baccalaureate programs combine professional practice experiences and internships in a variety of health care settings.

Health Science Studies

The bachelor of science degree in health science studies provides a curriculum for students who wish to gain an education in health science studies as a foundation for additional professional or graduate work in several health science professions, including medicine, dentistry, hospital administration, clinical laboratory science, and physical therapy. Employment with public health agencies or institutions is also an option. Undecided health science majors can use the curriculum to obtain the beginning courses until they decide on a major. Those students should work closely with an advisor to ensure that they take courses that will meet requirements.

Addictions Studies Minor

Undergraduate students may complete a minor in addictions studies. At the graduate level, students may earn a graduate certificate in addiction studies.

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-clinical laboratory science/medical technology, pre-dental, pre-dental hygiene, pre-dietetics, 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.

Degree Requirements

Environmental and Occupational Health

Director and Advisor: Dale Stephenson, Ph.D. Telephone 208 426-3795
Health Science Riverside, Room 110
http://hs.boisestate.edu/envhlth
e-mail: dalestephenson@boisestate.edu

Environmental and Occupational Health Bachelor of Science	
Course Number and Title	**Credits**
ENGL 101-102 English Composition	6
Area I—see page 45 for list of approved courses	
Area I core course in one field	3
Area I core course in a second field	3
Area I core course in a third field	3
Area I core course in any field	3
Area II—see page 45 for list of approved courses	
COMM 101 Fundamentals of Speech Communication	3
PSYC 101 General Psychology	3
GEOG 100 Introduction to Geography	3
Area II core course in any field	3
Area III	
Area III requirements are automatically met by specific courses included in the major requirements below.	
BIOL 191-192 General Biology I-II	8
BIOL 205 Introductory Microbiology **OR** BIOL 303 General Microbiology	4
BIOL 415 Applied and Environmental Microbiology **OR** GEOG 360 Introduction to Geographic Systems, **OR** ZOOL 305 Entomology	3-4
CHEM 111, 111L-112, 112L General Chemistry I and II with Labs	9
CHEM 301, 302 Survey of Organic Chemistry I and Lab	5
COMM 356 Communication in Small Group **OR** COMM 390 or SOC 390 Conflict Resolution	3

—continued—

Environmental and Occupational Health (continued)	
ENGL 202 Technical Communication	3
ENVHLTH 100 Introduction to Environmental Health	2
ENVHLTH 310 Water Supply and Water Quality Management	3
ENVHLTH 320 Community Environmental Health Management	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 and Occupational Health Seminar	1
HLTHST 304 Public Health	3
HLTHST 480 Epidemiology	3
MATH 147 Precalculus **OR** MATH 143-144 College Algebra and Analytical Trigonometry **OR** MATH 170 Calculus I	4-5
MATH 254 Applied Statistics with Computers	4
PHYS 111-112 General Physics	8
*Electives to total 128 credits	10-12
Total	128

*Suggested electives chosen from BIOL 310, BIOL 412, BIOL 423, ECON 201, GEOS 101, HLTHST 498-499, MATH 361, MGMT 301, POLS 101, POLS 102, and ZOOL 401.
NOTE: 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; and (4) COMM 390/SOC 390.

Course Offerings

See page 65 for a definition of the course-numbering system.

ENVHLTH—ENVIRONMENTAL HEALTH

Lower Division

ENVHLTH 100 INTRODUCTION TO ENVIRONMENTAL HEALTH (2-0-2)(F/S) (Diversity). Discussion of human ecology and interaction with the chemical, physical, biological and social environments. Overview of environmental health management and strategies to control air and water quality, solid and hazardous wastes, workplace and recreational safety.

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). 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)(Odd years). Current research and applied studies on emerging environmental and occupational health topics. PREREQ: Upper-division standing.

Health Informatics and Information Management

Director and Advisor: Patt Elison-Bowers, Ph.D. Telephone 208 426-1130

Faculty: Linda Osgood, Jaime Sand

Health Science Riverside, Room 109
http://hs.boisestate.edu/hlthinfo/
e-mail: pelison@boisestate.edu

Health informatics and information management concerns the application of techniques used in the development, implementation, and retention of health information. The associate degree program is a combination of clinical practice and study in areas such as classification systems, health data, record retention systems, and computerization of health data. Completion of the 2-year associate of science degree in health informatics and information management makes students eligible for the national certification examination.

The associate degree program is accredited by the Commission on Accreditation for Health Informatics and Information Management Education (CAHIIM).

The health informatics and information management (B.S.) curriculum provides a broad background in theory and administration of information. Students are trained to administer health information and solve problems in health informatics. Students complete internships in cooperation with facilities in the public or private sector.

Admission Requirements for the A.S. Degree

1. First Year
   A. Admission to Boise State University.
   B. Student must see a program advisor.
   C. First-year GPA of 2.00 or higher.
2. Second Year
   A. Only students who have completed or are in the process of completing the first-year curriculum with a GPA of 2.00 or higher will be considered for acceptance into the second year of the program.
   B. Submit a current negative tuberculosis report (PPD test), Hepatitis B or declination, rubella and rubeola immunity, and varicella (chicken pox) history or titer demonstrating immunity by September 1 of the sophomore year.

Application Process for A.S. Degree

1. Complete and return to the Health Informatics and Information Management Program office a "Special Programs Application" on or before March 1.
2. Complete the application process.

Promotion and Graduation

1. Students must maintain a GPA of at least 2.00 in order to enter the second year of the program.
2. A grade of lower than C in any professional course (numbered HLTHST or HLTHINFO) must be repeated and raised to C or higher before continuing in the program.

Health Informatics and Information Management Associate of Science

Course Number and Title	Credits
ENGL 101-102 English Composition	6
Area I—see page 45 for list of approved courses	
Area I core course	3
Area II—see page 45 for list of approved courses	
Area II core course	3
Area III—see page 45 for list of approved courses	
BIOL 227-228 Human Anatomy and Physiology	8
Area III core course in mathematics	4
HLTHINFO 115 Introduction to Health Records	3
HLTHINFO 120, ITM 104-ITM 105-ITM 106, or EDTECH 202 Computer Science	3
HLTHINFO 200 Health Information Management Topics	2
HLTHINFO 201, 202 Health Information I and Lab	5
HLTHINFO 203, 204 Health Information II and Lab	5
HLTHINFO 205 Health Data	3
HLTHINFO 207 Clinical Classification Systems	3
HLTHINFO 208 CPT Coding and Alternative Care	2
HLTHINFO 215 Clinical Practice	2
HLTHST 101 Medical Terminology	3
HLTHST 202 Health Delivery Systems	3
HLTHST 217 Human Disease Mechanisms	3
HLTHST 314 Health Law and Ethics	3
Total	64

NOTE: The A.S. degree awarded in health informatics and information management does not meet the university core requirements and do not comply with the Idaho Statewide Articulation Policy.

Admission Requirements for the B.S. Degree

To be admitted to the bachelor of science degree program, each student must have met and satisfactorily completed all requirements for the associate degree in health informatics and information management at Boise State, or have an associate degree in health informatics and information management from Boise State University or have an associate degree in health informatics and information management from an accredited institution, or have permission from the program director.

Of the credits listed below, 64 will have been completed in conjunction with the associate degree in health informatics and information management from Boise State University.

Health Informatics and Information Management Bachelor of Science

Course Number and Title	Credits
ENGL 101-102 English Composition	6
Area I—see page 45 for list of approved courses	
Area I core course in one field	3
Area I core course in a second field	3
Area I core course in a third field	3
Area I core course in any field	3
Area II—see page 45 for list of approved courses	
Area II core course in one field	3
Area II core course in a second field	3
Area II core course in a third field	3
Area II core course in any field	3
Area III—see page 45 for list of approved courses	
BIOL 227-228 Human Anatomy and Physiology	8
Area III core course in mathematics	4

—continued—

Health Informatics and Information Management (continued)	
Area II or Area III electives These courses do not have to be selected from the approved core list but must be chosen from anthropology, biology, chemistry, communication, criminal justice, economics, ED-CIFS, engineering, geology, history, mathematics, physical science, physics, political science, psychology, social work or sociology	9
HLTHINFO 115 Introduction to Health Records HLTHINFO 120, ITM 104-ITM 105-ITM 106, or EDTECH 202 Computer Science HLTHINFO 200 Health Information Management Topics HLTHINFO 201, 202 Health Information I and Lab HLTHINFO 203, 204 Health Information II and Lab HLTHINFO 205 Health Data HLTHINFO 207 Clinical Classification Systems HLTHINFO 208 CPT Coding and Alternative Care	3 3 2 5 5 3 3 2
HLTHINFO 215 Clinical Practice HLTHINFO 301 Computer Applications in Healthcare HLTHINFO 409 Health Data Systems HLTHINFO 435 Issues and Trends in Health Informatics	2 3 3 3
HLTHST 101 Medical Terminology HLTHST 202 Health Delivery Systems HLTHST 217 Human Disease Mechanisms HLTHST 314 Health Law and Ethics HLTHST 431 Quality Issues in Health Care **OR** HLTHST 480 Epidemiology	3 3 3 3 3
In addition, complete either the following course work to graduate with a Bachelor of Science in Health Informatics and Information Management (without an emphasis) OR complete the courses listed under the Informatics Emphasis.	
COMM 307 Interviewing	3
HLTHST 304 Public Health	3
MGMT 301 Leadership Skills MGMT 410 Advanced Management Topics	3 3
Upper division electives	13
Total	128
Informatics Emphasis	
ITM 305-305L Information Technology & Networking Essentials & Lab ITM 310 Business Intelligence	4 3
HLTHINFO 309 Healthcare Networks and Databases HLTHINFO 493 Health Information Internship	3 3
Upper division electives	13
Total	129

Course Offerings

See page 65 for a definition of the course-numbering system.

HLTHINFO—HEALTH INFORMATICS

Lower Division

HLTHINFO 115 INTRODUCTION TO HEALTH RECORDS (3-0-3)(S). Principles of medical record technology, the professional organizations, medical record practitioners, and the content of the hospital chart.

HLTHINFO 120 INTRODUCTION TO COMPUTERS IN HEALTH SCIENCE (3-0-3)(F,S). Word processing, database management, spread sheet analysis, and graphical presentation of health science information. The acquisition of information on selected topics requiring the use of microcomputers in health information management and medical informatics.

HLTHINFO 200 HEALTH INFORMATION MANAGEMENT TOPICS (2-0-2)(S). Current health information management topics including transcription, data quality, and other information specific areas.

HLTHINFO 201 HEALTH INFORMATION I (3-0-3)(F). Preparation, analysis, preservation, and retrieval of health information manually and by computer. The value of this information to the patient, the doctor, and the community. PREREQ: HLTHINFO 115. COREQ: HLTHINFO 202.

HLTHINFO 202 HEALTH INFORMATION I LABORATORY (0-4-2)(F). Practice in the various methods of numbering, filing, and retrieving health records manually and by computer. COREQ: HLTHINFO 201.

HLTHINFO 203 HEALTH INFORMATION II (3-0-3)(S). Study the uses of coded data and health information in reimbursement and payment systems appropriate to health care settings and managed care. Introduce the principles of quality assessment and other resource management processes in order to collect and analyze data. PREREQ: HLTHINFO 201. COREQ: HLTHINFO 204.

HLTHINFO 204 HEALTH INFORMATION II LABORATORY (0-4-2)(S). Application of coded data in payment and reimbursement systems including DRG assignment. Application of quality assessment collection tools, data analysis, data reporting techniques. Application of resource management, case management tools, and utilization review. COREQ: HLTHINFO 203.

HLTHINFO 205 HEALTH DATA (3-0-3)(S). Collection and presentation of routine data for daily, monthly, and annual hospital statistical reports. Formulas, preparation of birth certificates, and abstracting data for the computer. PREREQ: PERM/INST.

HLTHINFO 207 CLINICAL CLASSIFICATION SYSTEMS (3-0-3)(F). Focus on coding and classifications systems to assign valid diagnostic and/or procedure codes. Principles and applications of coding systems will include those used in the computer based patient record, the validation of coded clinical information, and case mix/severity of illness data. PREREQ: PERM/INST.

HLTHINFO 208 CPT CODING AND ALTERNATIVE CARE RECORDS (2-0-2)(S). Coding principles and applications for statistical and reimbursement purposes utilizing Physicians' Current Procedural Terminology. PREREQ: HLTHINFO 207.

HLTHINFO 215 CLINICAL PRACTICE (0-V-2)(S). Students will complete directed clinical practice in health information areas of affiliated health care facilities for a total of 120 hours. (Pass/Fail.)

Upper Division

HLTHINFO 301 (HLTHST 301) COMPUTER APPLICATIONS IN HEALTHCARE (3-0-3)(F/S). Clinical, research and administrative applications of computers in the health care industry from which information is currently derived. PREREQ: HLTHINFO 120, ITM 104, ITM 105, ITM 106, EDTECH 202.

HLTHINFO 309 HEALTHCARE NETWORKS AND DATABASES (3-0-3)(F)(Odd years). Issues of health database management. Includes medical data systems and software. PREREQ: HLTHINFO 120, ITM 104, ITM 105, ITM 106, EDTECH 202 or PERM/INST.

HLTHINFO 409 HEALTH DATA SYSTEMS (3-0-3)(F/S). Applied research issues and procedures in health database management. PREREQ: Upper-division standing and one of the following HLTHINFO 120, ITM 104-ITM 105-ITM 106, EDTECH 202, or PERM/INST.

HLTHINFO 435 (HLTHST 435) ISSUES AND TRENDS IN HEALTH INFORMATICS (3-0-3)(F)(Odd years). Issues related to patient privacy and security practices, information business processes in health organizations, electronic information, and analysis and interpretation of rules and regulations.

HLTHINFO 493 HEALTH INFORMATION INTERNSHIP (1-4-3)(F/S). Placement in relevant emphasis area. Related project required. (Pass/Fail.) PREREQ: Upper-division health information management standing; recommendation of faculty advisor; consent of instructor.

Health Science Studies

Director and Advisor: Elaine Long, PhD Telephone 426-3118
Advisor: Edward Baker, PhD Telephone 426-3118
Health Science Riverside, Room 107
http://hs.boisestate.edu/hlthscience/
Faculty: Pat Aksamit, Edward Baker, Elizabeth Hannah

Health Science Studies
Bachelor of Science

Course Number and Title	Credits
ENGL 101-102 English Composition	6
Area I—see page 45 for list of approved courses	
Area I core course in one field	3
Area I core course in a second field	3
Area I core course in a third field	3
Area I core course in any field	3
Area II—see page 45 for list of approved courses	
Area II core course in one field	3
Area II core course in a second field	3
Area II core course in a third field	3
Area II core course in any field (Strongly recommended: PSYC 101, SOC 101 ,COMM 101)	3
Area III	
CHEM 101, 101L-102, 102L Essentials of Chemistry **OR** CHEM 111, 111L-112, 112L General Chemistry I and II with Labs	8-9
MATH 147 Precalculus **OR** MATH 143 College Algebra **OR** MATH 160 Survey of Calculus	3-5
BIOL 191-192 General Biology I-II **OR** BIOL 227-228 Human Anatomy and Physiology	8
HLTHST 202 Health Delivery Systems	3
HLTHST 207 Nutrition	3
HLTHST 314 Health Law and Ethics	3
HLTHST 480 Epidemiology	3
HLTHST 482 Research Methods in the Health Sciences	3
Health science courses (4 courses from the following) HLTHST 101 Medical Terminology HLTHST 109 Drugs: Use and Abuse HLTHST 300 Pathophysiology HLTHST 304 Public Health HLTHST 306 Applied Pharmacotherapeutics HLTHST 410 Health and Aging HLTHST 431 Quality Issues in Health Care HLTHST 448 Counseling Techniques for Health Professionals	12-13
Emphasis — select one: general health science or science Students should consider completing a formal minor to fulfill part of an emphasis.	
Statistics course chosen from: HLTHST 380 Statistical Methods for Health Sciences **OR** MATH 254 Applied Statistics with Computers **OR** PSYC 295 Statistical Methods **OR** SOC 310 Elementary Social Statistics	3-4
General Health Emphasis	
ACCT 205 Introduction to Financial Accounting ACCT 206 Introduction to Managerial Accounting BIOL 205 Introductory Microbiology BIOL 300 Biology of Aging CHEM 307-308, 309-310 Organic Chemistry and Lab **OR** CHEM 301-302 Survey of Organic Chemistry COMM 356 Communication in the Small Group ECON or POLS 310 Public Finance ECON 440 Health Economics ENGL 202 Technical Communication	36

—continued—

Health Science Studies (continued)	
GENBUS 202 The Legal Environment of Business HLTHINFO 120 Introduction to Computers in Health Science HLTHST 220 Cardiopulmonary Renal Physiology HLTHST 340 Adolescent Mental Health HLTHST 432 Critical Review of Health Care Research HLTHST 433 Death and Dying: A Modern Conundrum HLTHST 434 Healthcare Bioethics HLTHST 444 Addiction and the Family System HLTHST 464 Screening & Assessment of Alcohol & Drug Problems HLTHST 465 Assessment of Alcohol and Drug Problems HLTHST 466 Complementary Medicine HLTHST 493 Internship HLTHST 498 Senior Seminar MATH 170 Calculus I MGMT 301 Leadership Skills MGMT-HR 305 Human Resource Management MKTG 301 Principles of Marketing KINES 270, 271 Applied Anatomy and Lab KINES 330, 331 Exercise Physiology and Lab KINES 370, 371 Biomechanics and Lab KINES 442 Consumer Health PHYS 111-112 General Physics POLS 303 Introduction to Public Administration PSYC 213 Psychology of Aging PSYC 301 Abnormal Psychology PSYC 309 Child Development PSYC 310 Adolescent and Adult Development PSYC 331 The Psychology of Health PSYC 335 Physiological Psychology PSYC 438 Community Psychology SOC 325 Sociology of Aging SOC 340 Sociology of the Family SOC 390 Conflict Management **OR** COMM 390 Conflict Management SOCWRK 433 Aging: Social Policy and Programs ZOOL 401 Human Physiology (Or other courses as approved by the advisor and department chair.)	
Electives to total 128 credits	8-13
Total	128
Science Emphasis (natural/physical/and mathematics)	
BIOL 205 Introductory Microbiology **OR** BIOL 303 General Microbiology BIOL 301 Cell Biology BIOL 310 Pathogenic Bacteriology BIOL 343/344 Genetics BIOL 351 Developmental Biology BIOL 412 General Parasitology BIOL 420 Immunology CHEM 211, 212 Analytical Chemistry I and Lab CHEM 307-308, 309-310 Organic Chemistry and Lab **OR** CHEM 301-302 Survey of Organic Chemistry CHEM 321, 324 Physical Chemistry Lecture CHEM 431, 432 Biochemistry with Laboratory HLTHST 493 Internship HLTHST 498 Senior Seminar MATH 170 Calculus I PHYS 111-112 General Physics PHYS 207 Introduction to Biophysics ZOOL 301 Comparative Anatomy ZOOL 400 Histology ZOOL 401 Human Physiology ZOOL 403 Head and Neck Anatomy ZOOL 409 General and Comparative Physiology (Or other courses as approved by the advisor and department chair)	36
Electives to total 128 credits	8-13
Total	128

NOTE: Health science students must earn at least a grade of C in all required courses.
Students who intend to apply to colleges of medicine or dentistry should consider taking CHEM 307, 308, 309, 310 and PHYS 111-112.

Course Offerings

See page 65 for a definition of the course-numbering system.

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). 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 109 DRUGS: USE AND ABUSE (3-0-3)(F/S). 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 143 (KINES 143) WEIGHT MANAGEMENT (1-0-1)(F/S). A health-focused approach to weight management is presented. Behavioral changes in the areas of nutrition and exercise are identified. Students engage in a behavior change project. May be taken for Kinesiology or Health Studies credit, but not both. (Pass/Fail.)

HLTHST 144 (KINES 144) STRESS MANAGEMENT (1-0-1)(F/S). Exercises to help students identify the various sources of stress in their lives, expand their repertoire of appropriate stress management techniques, and develop an action plan for the effective management of stress. May be taken for Kinesiology or Health Studies credit, but not both. (Pass/Fail.)

HLTHST 145 (KINES 145) FAMILY SKILL BUILDING STRATEGIES (1-0-1)(F/S). Identify and practice positive parenting skills that help build protective factors to reduce the risk that children will develop addiction/substance abuse problems. May be taken for Kinesiology or Health Studies credit, but not both. (Pass/Fail.)

HLTHST 202 HEALTH DELIVERY SYSTEMS (3-0-3)(F,S). Consideration of processes, professionals, politics, programs, laws, and institutions which are involved in the maintenance of health and treatment of disease.

HLTHST 207 NUTRITION (3-0-3)(Diversity). 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.

HLTHST 216 LABORATORY VALUES (1-0-1)(F). Introduction to the clinical significance of selected laboratory tests. PREREQ: PERM/INST.

HLTHST 217 HUMAN DISEASE MECHANISMS (3-0-3)(F). Introduction to the general principles of disease mechanisms: etiology, signs, symptoms, diagnoses, treatment and management of disease.

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 230 GROWTH AND DEVELOPMENT (3-0-3)(F,S). Principles of physical and psychosocial growth and development across the lifespan from infancy through later life. Overview of developmental theories, developmental assessment tools, health risks, and prevention and promotion strategies. PREREQ: BIOL 227, PSYC 101.

HLTHST 255 INTRODUCTION TO THE FIELD OF ADDICTIONS (3-0-3)(F/S). Addictions, impact of drugs on society, treatment modalities, and career opportunities.

HLTHST 256 PREVENTION OF SUBSTANCE ABUSE (3-0-3)(F)(Odd years). Introduction to prevention theory and practice of alcohol and other drug addictions. Focus will be on identification of risk and protective factors. PREREQ: HLTHST 109 or PERM/INST.

HLTHST 258 BLOOD BORNE PATHOGENS FOR ADDICTIONS PROFESSIONALS (1-0-1)(S). Overview of blood-borne pathogens and high-risk behaviors.

Upper Division

HLTHST 300 PATHOPHYSIOLOGY (4-0-4)(F,S). Emphasis on dynamic aspects of human disease. Disruption of normal physiology and alterations, derangements, and mechanisms involved. PREREQ: BIOL 227-228 or equivalent.

HLTHST 304 PUBLIC HEALTH (3-0-3)(F/S). 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 or PERM/INST.

HLTHST 306 APPLIED PHARMACOTHERAPEUTICS (3-0-3)(F/S). Emphasis on use of drugs in relation to health and illness in any setting, on legal aspects, and on patient education. Students will be expected to use prerequisite information in pathophysiology to study drugs and their inter-system relationships. Fall offering, by computer-assisted program, is for RNs only. PREREQ: HLTHST 300 or PERM/INST.

HLTHST 314 HEALTH LAW AND ETHICS (3-0-3)(F,S)(Diversity). 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.

HLTHST 340 (NURS 340) ADOLESCENT MENTAL HEALTH (2-0-2)(F/S). Theoretical and applied foundations in adolescent growth and development. Emphasis on understanding adolescent health/mental health issues, and effective individual, group, and community responses to issues facing the adolescent population. May be taken for HLTHST or NURS credit, but not both.

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 356 COMMUNITY-BASED PREVENTION METHODS (3-0-3)(F)(Even years). Emphasis on coalition development and assessment and evaluation of community-based prevention strategies. PREREQ: HLTHST 256 or PERM/INST.

HLTHST 380 STATISTICAL METHODS FOR HEALTH SCIENCES (3-0-3)(F/S). Application and use of statistical principles and methods in health sciences. General computer skills required to use SPSS and Excel. PREREQ: MATH 143 or higher.

HLTHST 410 HEALTH AND AGING (3-0-3)(F). Focuses on major health problems and issues of the elderly. Includes discussion of: 1) the continuity of care for the older person; 2) the organizations and personnel providing care; and 3) the agencies involved with licensure, certification, or other types of regulations for health care providers. Includes some discussion of nontraditional health centers for the older person, for example, work site, community, social organizations, and senior centers. PREREQ: Upper-division standing or PERM/INST.

HLTHST 431 QUALITY ISSUES IN HEALTH CARE (3-0-3)(F). 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.

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). 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.

HLTHST 434 HEALTHCARE 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.

HLTHST 435 (HLTHINFO 435) ISSUES AND TRENDS IN HEALTH INFORMATICS (3-0-3)(F)(Odd years). Issues related to patient privacy and security practices, information business processes in health organizations, electronic information, and analysis and interpretation of rules and regulations.

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: HLTHST 109 or PERM/INST.

HLTHST 448 COUNSELING TECHNIQUES FOR HEALTH PROFESSIONALS (3-0-3)(F). Topics to include interviewing and questioning techniques, client observation and influencing skills, and ethics. Special emphasis is given to confrontation techniques which can help break through the denial system of patients and help determine sound treatment plans. PREREQ: Upper-division or graduate standing.

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: HLTHST 109 or PERM/INST.

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 or PERM/INST.

HLTHST 466 COMPLEMENTARY MEDICINE (2-0-2)(F/S). 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.

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: HLTHST 255.

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: HLTHST 255.

HLTHST 480-480G EPIDEMIOLOGY (3-0-3)(F/S). Study of the distribution and determinants of disease within human populations. PREREQ: Upper-division standing and HLTHST 380 or HLTHINFO 205 or MATH 254 or PSYC 295 or SOC 310.

HLTHST 482 RESEARCH METHODS IN THE HEALTH SCIENCES (3-0-3)(F/S). Design of experiments, methods of analysis, interpretation of results, and use of research to support evidence-based practice. PREREQ: HLTHST 380 or MATH 254 or PSYC 295 or SOC 310.

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.

Addictions Studies Minor

Advisor: Pat Aksamit, Ph.D. Telephone 208 426-3970
Health Science Riverside, Room 103
http://hs.boisestate.edu/hlthscience/addictions
Faculty: Susan Esp

Addictions Studies Minor	
Course Number and Title	**Credits**
HLTHST 109 Use and Abuse of Drugs	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 & Drug Problems	3
HLTHST 465 Assessment of Alcohol/Drug Problems	3
HLTHST 468 Group Process for Addictions Professionals	3
HLTHST 469 Ethics for Addictions Professionals	2
One of the following: PSYC 301 Abnormal Psychology PSYC 310 Adolescent and Adult Development (recommended) PSYC 331 Psychology of Health	3
Total	27

Pre-Professional Studies

Director and Advisor: Glenda C. Hill 208 426-3832
Health Science Riverside, Room 124
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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 clinical laboratory science/medical technology, pre-chiropractic, pre-dental, pre-dental hygiene, pre-dietetics, 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 course work, 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. WOI (Washington-Oregon-Idaho) for veterinary medicine school
5. WICHE (Western Interstate Consortium of Higher Education) for select schools of optometry.

Pre-Medical and Pre-Dental Information 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 acceptance into professional school. The prerequisite courses required by most medical/dental schools include, but are not limited to the following: ENGL 101-102 English Composition; CHEM 111, 111L-112, 112L General Chemistry and Labs; BIOL 191-192 General Biology I-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 highly recommended.

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 Bachelor of Science	
Course Number and Title	**Credits**
ENGL 101-102 English Composition	6
Area I—see page 45 for list of approved courses	
Area I core course in one field	3
Area I core course in a second field	3
Area I core course in a third field	3
Area I core course in any field	3
Area II—see page 45 for list of approved courses	
PSYC 101 General Psychology	3
Area II core course in a second field	3
Area II core course in a third field	3
Area II core course in any field	3
Area III	
Area III requirements are automatically met by specific courses included in the major requirements below.	
BIOL 191-192 General Biology I-II	8
BIOL 301 Cell Biology	3
BIOL 343, 344 Genetics with or without Lab	3-5
BIOL 351 Developmental Biology	4
CHEM 111, 111L-112, 112L General Chemistry I and II with Labs	9
CHEM 307, 308, 309, 310 Organic Chemistry and Labs	8-10
MATH 147 Precalculus **OR** MATH 143-144 College Algebra and Analytical Trigonometry	5
MATH 160 Survey of Calculus **OR** MATH 170 Calculus I	4
PHYS 111-112 General Physics	8
ZOOL 301 Comparative Anatomy	4

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Pre-Dental or Pre-Medical Studies (continued)	
Biology Option	
BIOL 303 General Microbiology	4
CHEM 431, 432 Biochemistry with or without Lab	3-4
ZOOL 400 Vertebrate Histology ZOOL 401 Human Physiology **OR** ZOOL 409 General and Comparative Physiology	4 4
*Electives to total 128 credits	18-22
Total	128
Chemistry Option	
CHEM 321, 322, 323, 324 Physical Chemistry Lecture & Lab CHEM 411 Analytical Chemistry II	8 4
CHEM 431, 432 Introduction to Biochemistry **OR** CHEM 211, 212 Analytical Chemistry I and Lab CHEM 496 Chemistry Independent Studies CHEM 499 Chemistry Seminar	5 2 2
MATH 175 Calculus II MATH 275 Multivariable and Vector Calculus	4 4
*Electives to total 128 credits	4-9
Total	128
* Additional upper-division credits so that upper-division credits total at least 40.	

Pre-Veterinary Medicine

The states of Idaho and Washington have an agreement under which a number of places 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 the WSU School of Veterinary Medicine.

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 Bachelor of Science	
Course Number and Title	**Credits**
ENGL 101-102 English Composition	6
Area I—see page 45 for list of approved courses	
Area I core course in one field Area I core course in a second field Area I core course in a third field Area I core course in any field	3 3 3 3
Area II—see page 45 for list of approved courses	
Area II core course in one field Area II core course in a second field Area II core course in a third field Area II core course in any field	3 3 3 3

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Pre-Veterinary Medicine (continued)	
Area III	
Area III requirements are automatically met by specific courses included in the major requirements below.	
BIOL 191-192 General Biology I-II BIOL 301 Cell Biology BIOL 303 General Microbiology BIOL 343 Genetics	8 3 4 3
CHEM 111, 111L-112, 112L General Chemistry I and II with Labs CHEM 307, 308, 309, 310 Organic Chemistry and Labs CHEM 431, 432 Biochemistry	9 10 4
MATH 147 Precalculus **OR** MATH 143-144 College Algebra and Analytical Trigonometry MATH 160 Survey of Calculus **OR** MATH 170 Calculus I	5 4
PHYS 111-112 General Physics	8
Upper-division electives to total 40 credits	26
Electives	14
Total	128

Nondegree Programs

A number of health-related nondegree programs are available at Boise State. Each is described below.

Pre-Chiropractic

Advisor: Glenda C. Hill 208 426-3832
Health Science Riverside, Room 124
e-mail: ghill@boisestate.edu

The 3-year pre-chiropractic program 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. Internships are available with local chiropractors; for more information, see the course description for HLTHST 493 Internship. For more information www.chirocolleges.com.

Pre-Chiropractic	
Course Number and Title	**Credits**
ENGL 101-102 English Composition	6
PSYC 101 General Psychology	3
Area II core 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 and II with Labs CHEM 307, 308, 309, 310 Organic Chemistry and Lab	9 10
MATH 147 Precalculus **OR** MATH 143-144 College Algebra and Analytical Trigonometry	5
PHYS 111 General Physics **AND** PHYS 112 General Physics or an alternate (see advisor)	4 4
Additional course work (see advisor)	26
Total	90
Suggested electives: BIOL 205, COMM 101, GENBUS 101, HLTHST 101, HLTHST 202, HLTHST 207, HLTHST 493, ZOOL 301.	

Pre-Dietetics

Advisor: Elaine Long, Ph.D. Telephone 208 426-3260
Health Science Riverside, Room 107
e-mail: elong@boisestate.edu
http://hs.boisestate.edu/preprof/

Pre-Dietetics	
Course Number and Title	**Credits**
ENGL 101-102 English Composition	6
Area I core courses	6
ECON 201 Principles of Macroeconomics **OR** ECON 202 Principles of Microeconomics PSYC 101 General Psychology SOC 101 Introduction to Sociology	3 3 3
ACCT 205 Introduction to Financial Accounting	3
BIOL 205 Introductory Microbiology BIOL 227-228 Human Anatomy and Physiology	4 8
CHEM 101-102 Essentials of Chemistry	9
ENGL 202 Technical Communication	3
HLTHST 207 Nutrition	3
MATH 108 Intermediate Algebra MATH 254 Applied Statistics with Computers	4 4
Elective (consult with your advisor)	6
Total	77

Pre-Dental Hygiene

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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 school to which they expect to apply. For more information http://www.adha.org.

Pre-Dental Hygiene	
Course Number and Title	**Credits**
ENGL 101-102 English Composition	6
Area I core courses (Select with advisor)	6
COMM 101 Fundamentals of Speech Communication PSYC 101 General Psychology SOC 101 Introduction to Sociology	3 3 3
Area II core (history, economics, or cultural anthropology)	3
BIOL 100 Concepts of Biology BIOL 205 Introductory Microbiology BIOL 227-228 Human Anatomy and Physiology	4 4 8
CHEM 101-102 Essentials of Chemistry	9
HLTHST 207 Nutrition	3
MATH 108 Intermediate Algebra **OR** MATH 147 Precalculus **OR** MATH 143-144 College Algebra and Analytical Trigonometry MATH 254 Applied Statistics with Computers	4-5 4
Total	60-61

NOTE: Students should take Dent 201 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-Clinical Laboratory Science/Medical Technology

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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 CLS Program prerequisites listed below or transfer to the Idaho State University CLS 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 CLS information on the http://www.isu.edu/cls/ website.

Pre-Clinical Laboratory Science (ISU transfer)	
Course Number and Title	**Credits**
ENGL 101-102 English Composition	6
Area I (See an advisor to help select appropriate courses)	6
COMM 101 Fundamentals of Speech Communication Area II (See an advisor to help select appropriate courses)	3 9
BIOL 191-192 General Biology I-II BIOL 205 Introductory Microbiology **OR** BIOL 303 General Microbiology BIOL 227-228 Human Anatomy and Physiology **OR** ZOOL 301 Comparative Anatomy **AND** ZOOL 401 Human Physiology BIOL 301 Cell Biology BIOL 343/344 Genetics with or without lab BIOL 420 Immunology	8 4 8 3 3-4 3
*CHEM 111, 111L-112, 112L General Chemistry I and II with Labs *CHEM 307, 308, 309, 310 Organic Chemistry and Labs **OR** CHEM 301, 302 Organic Chemistry and Labs *CHEM 431/432 Biochemistry I with or without Lab	9 5-10 3-4
HLTHST 300 Pathophysiology	4
MATH 143 College Algebra **OR** MATH 147 Precalculus MATH 160 Survey of Calculus **OR** MATH 170 Calculus I **OR** MATH 254 Applied Statistics with Computers	3-5 4
At least two courses from the following areas: analytical chemistry, biochemistry, biophysics, computer science, developmental biology, epidemiology, histology, mycology, parasitology, physics, or statistics	6-8
Elective (consult with your advisor)	0-6
Total	87-104

*Chemistry credits must total 16

Pre-Occupational Therapy

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Occupational therapy schools differ considerably in their pre-professional requirements. A minimum of two-three pre-professional years is required, with completion of an undergraduate degree required to enter the only OT program in Idaho – at Idaho State University. A student interested in this career is advised to consult the advisor, 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 http://www.aota.org.

Pre-Occupational Therapy

Course Number and Title	Credits
ENGL 101-102 English Composition	6
Area I core courses (determined by professional school or degree choice)	6-12
COMM 101 Fundamentals of Speech Communication PSYC 101 General Psychology SOC 101 Introduction to Sociology Area II core course (determined by professional school or degree choice)	3 3 3 3-6
BIOL 100 Concepts of Biology **OR** BIOL 191-192 General Biology I-II BIOL 227-228 Human Anatomy and Physiology	4 8 8
HLTHST 101 Medical Terminology	3
MATH 108 Intermediate Algebra **OR** MATH 147 Precalculus **OR** MATH 143-144 College Algebra and Analytical Trigonometry Depends on math requirements at professional school	4-5
PSYC 295 Statistical Methods or other statistics course PSYC 301 Abnormal Psychology PSYC 309 Child Development PSYC 310 Adolescent and Adult Development	3 3 3 3
Other recommended courses depend on the selected professional occupational therapy school. Frequently required prerequisites: CHEM 101, PHYS 111, ART 225 or other applied art courses.	Varies
Total	Varies

Pre-Optometry

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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 courses pre-requisites. For more information visit http://www.opted.org.

Pre-Optometry

Course Number and Title	Credits
ENGL 101-102 English Composition	6
BIOL 191-192 General Biology I-II BIOL 205 Introductory Microbiology BIOL 227-228 Human Anatomy and Physiology	8 4 8
CHEM 111, 111L-112, 112L General Chemistry I and II with Labs CHEM 307, 308, 309, 310 Organic Chemistry and Lab	9 10
MATH 147 Precalculus **OR** MATH 143-144 College Algebra and Analytical Trigonometry *MATH 170 Calculus I	5 4
PHYS 111-112 General Physics	8
Total	62

*Requirement varies with school
Additional courses that may be needed for the pre-optometric program:

Psychology	Differential Calculus	Comparative Anatomy
Philosophy	Art History	Statistics
Social Science	Analytic Geometry	Biochemistry
Literature	Integral Calculus	Physiology
Microbiology	Introduction to Theatre	Internship
Business courses		

Pre-Pharmacy

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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. 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, Area I, and Area II 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.

Pre-Pharmacy

Course Number and Title	Credits
ENGL 101-102 English Composition	6
Area I core courses	6-12
COMM 101 Fundamentals of Speech Communication ECON 201 Principles of Macroeconomics **OR** ECON 202 Principles of Microeconomics Area II core course (determined by professional school or degree choice)	3 3 3
*BIOL 191 General Biology I BIOL 227-228 Human Anatomy and Physiology BIOL 205 Introductory Microbiology	4 8 4
CHEM 111, 111L-112, 112L General Chemistry I and II with Labs CHEM 307, 308, 309, 310 Organic Chemistry and Labs	9 10
MATH 147 Precalculus **OR** MATH 143-144 College Algebra and Analytical Trigonometry MATH 160 Survey of Calculus **OR** MATH 170 Calculus I	5 4
*PHYS 111 General Physics	4
Total	61-67

*varies depending on school
Other suggested courses: BIOL 192, HLTHST 101, CHEM 431, 433, PHYS 112

Pre-Physical Therapy

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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 being accepted 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.

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 English Composition	6
Area I (Refer to requirements of major and professional school requirements.)	12
COMM 101 Fundamentals of Speech Communication PSYC 101 General Psychology SOC 101 Introduction to Sociology Other Area II (Refer to additional requirements of major and professional school requirements.)	12
BIOL 100 Concepts of Biology **OR** BIOL 191-192 General Biology I-II BIOL 227-228 Human Anatomy and Physiology	4-8 8
CHEM 111, 111L-112, 112L General Chemistry I and II with Labs	9
HLTHST 101 Medical Terminology	3
KINES 330, 331 Exercise Physiology and Lab	3
MATH 147 Precalculus **OR** MATH 143-144 College Algebra and Analytical Trigonometry	5
PHYS 111-112 General Physics	8
PSYC 295 Statistical Methods or other statistics course PSYC 301 Abnormal Psychology **AND/OR** PSYC 309 Child Development	3 3 3
Total	79-83

Other suggested courses: BIOL 205, KINES 270, 271, KINES 330, 331, KINES 370, 371, Computer class, 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 to which the student expects to transfer.

Pre-Physician Assistant

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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 minimum of two-three years of college prior to admission and to have had previous health care experience. Most successful applicants to PA programs have earned a bachelors degree as most PA programs are at the graduate level.

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 course work to fulfill these specific program requirements. For more information visit www.aapa.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 English Composition	6
Area I (depends on requirements of professional school or degree choice)	6-12
Area II (depends on requirements of professional school or degree choice) Suggested courses: COMM 101, PSYC 101, SOC 101	6-12
BIOL 100 Concepts of Biology **OR** BIOL 191-192 General Biology I-II	4-8
BIOL 205 Introductory Microbiology BIOL 227-228 Human Anatomy and Physiology	4 8
CHEM 111, 111L-112, 112L General Chemistry I and II with Labs CHEM 301, 302, CHEM 431 may be required or recommended.	9
HLTHST 101 Medical Terminology (recommended)	3
MATH 143 College Algebra **OR** MATH 147 Precalculus Depends on math requirements at professional school or degree choice	3-5
PSYC 301 Abnormal Psychology PSYC 295 Statistical Methods	3 3
Total	55-73

Pre-Speech-Language Pathology

Advisor: Glenda C. Hill 208 426-3832
Health Science Riverside, Room 124
e-mail: ghill@boisestate.edu

The curriculum below reflects a partnership between Boise State University and Idaho State University in allowing students to complete a Bachelors degree in Speech Language Pathology in Boise. Students must complete the two years of course work indicated below at Boise State and apply to the Idaho State undergraduate Speech Pathology Program-Boise Center. Upon acceptance to this competitive program, students can complete a bachelor's degree in preparation for further education at the graduate level. A master's degree is required for entry into the profession. For more information visit http://www.asha.org.

Pre-Speech-Language Pathology

Course Number and Title	Credits
ENGL 101-102 English Composition	6
Area I core courses (select with advisor)	6
COMM 101 Fundamentals of Speech Communication PSYC 101 General Psychology Area II core course (select with an advisor)	3 3 6
Area III physical science course (selected from PHYS, 101, 105, CHEM 100, GEOS 100, 101)	4
BIOL 227 Human Anatomy and Physiology	4
ENGL 202 Technical Writing	3
MATH 108 Intermediate Algebra **AND** MATH 254 Applied Statistics with Computers **OR** MATH 124 Mathematical Thought **AND** PSYC 295 Statistical Methods	7-8
PSYC 309 Child Development	3
SOC 230 Intro to Multi-Ethnic Studies	3
Suggested electives: LING 305, BIOL 228, ASL 101 and 103 and/or other electives as selected with advisor	9
Total	57-58

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.

CSED 205—Introduction to Communication Differences & Disorders must be taken through ISU prior to acceptance into the ISU professional program.

Department of Computer Science

College of Engineering

Engineering Technology, Room 240 Telephone 208 426-5788
http://coen.boisestate.edu/cs Fax 208 426-2470
e-mail: office@cs.boisestate.edu

Chair and Professor: Murali Medidi. *Associate Professors:* Andersen, Buffenbarger, Jain. *Assistant Professors:* S. Medidi, Stark, Uh, Yeh. *Special Lecturer:* Cole.

Degrees Offered

- B.S. in Computer Science (B.S.C.S.)
- M.S. in Computer Science (See the *BSU Graduate Catalog*)

Department Statement

Computer science is a discipline which is 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 the Accreditation Board for Engineering and Technology (ABET), 111 Market Place, Suite 1050, Baltimore, MD 21202-4012, telephone 410 347-7700.

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 Bachelor of Science	
Course Number and Title	**Credits**
ENGL 101-102 English Composition	6
Area I—see page 45 for list of approved courses	
ENGR 102 The Ethical Dimensions of Technology **OR**	3
PHIL 101 Introduction to Philosophy	3
Area I core course in a second field	3
Area I core course in a third field	3
Area I core course in any field	
Area II—see page 45 for list of approved courses	
COMM 101 Fundaments of Speech Communication	3
Area II core course in a second field	3
Area II core course in a third field	3
Area II core course in any field	3
Area III	
Area III requirements are automatically met by specific courses included in the major requirements below.	

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Computer Science (continued)	
A year's sequence in a laboratory science CHEM 111, 111L-112, 112L General Chemistry I & II with Labs **OR** PHYS 211, 211L-212, 212L Physics I & II with Calculus and Lab	9-10
COMPSCI 125 Introduction to Computer Science I	4
COMPSCI 225 Introduction to Computer Science II	4
COMPSCI 230 Ethical Issues in Computing	2
COMPSCI 253 Object-Oriented Program Development in C	2
COMPSCI 342 Data Structures and Algorithms	4
COMPSCI 354 Programming Languages	3
COMPSCI 441 Computer Architecture	3
COMPSCI 450 Programming Language Translation	4
COMPSCI 453 Operating Systems	4
COMPSCI 461 Introduction to the Theory of Computation	3
COMPSCI 471 Software Engineering	3
COMPSCI 488 Senior Outcome Assessment	0
COMPSCI 498 Seminar	1
ECE 230, 230L Digital Logic Systems and Lab	4
ECE 332, 332L Microprocessors and Lab	4
ENGL 202 Technical Writing	3
Two additional computer science courses chosen from: COMPSCI 357 Introduction to Artificial Intelligence COMPSCI 410 Databases COMPSCI 425 Introduction to Networking COMPSCI 430 Parallel Computing COMPSCI 455 Distributed Systems COMPSCI 464 Computer Graphics I COMPSCI 465 Computer Graphics II COMPSCI 472 Object-Oriented Design Patterns COMPSCI 367 Cryptology I **OR** COMPSCI 368 Cryptology II **OR** ECE 456 Pattern Recognition	6-8
Required mathematics courses:	
MATH 170 Calculus I	4
MATH 175 Calculus II	4
MATH 187 Discrete and Foundational Mathematics I	4
MATH 361 Probability and Statistics I	4
One mathematics course chosen from the following: MATH 275 Multivariate and Vector Calculus MATH 301 Linear Algebra MATH 307 Cryptology I MATH 308 Cryptology II MATH 333 Differential Equations with Matrix Theory MATH 387 Discrete and Foundational Mathematics II	3-4
One additional science or engineering course chosen from approved list available in the department office.	3-5
Upper-division electives to total 40 credits	0-2
Electives to total 128 credits	6-10
Total	128

Computer Science Minor	
Course Number and Title	**Credits**
COMPSCI 125 Introduction to Computer Science I	4
COMPSCI 225 Introduction to Computer Science II	4
COMPSCI 253 Object-Oriented Program Development in C	2
COMPSCI 342 Data Structures and Algorithms	4
MATH 170 Calculus I	4
MATH 187 Discrete and Foundational Mathematics I	4
Total	22

Course Offerings

See page 65 for a definition of the course-numbering system.

COMPSCI—COMPUTER SCIENCE

Lower Division

COMPSCI 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.

COMPSCI 117 INTRODUCTION TO C++ (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 147 or satisfactory placement score.

COMPSCI 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.

COMPSCI 120 INTRODUCTION TO PROGRAMMING CONCEPTS (2-0-2)(F,S). Fundamental programming concepts using the Alice interactive 3-D programming system. Intended as preparation for COMPSCI 125.

COMPSCI 125 INTRODUCTION TO COMPUTER SCIENCE I (4-0-4)(F,S). Data and procedure abstraction. Problem solving techniques, recursive alorithms, basic searching and sorting techniques. Introduction to object-based programming. Software development process (specification, design, stepwise refinement). Note: Students with no prior programming experience should consider taking a language course prior to taking this course. PREREQ: MATH 143 or MATH 147 or satisfactory math placement score.

COMPSCI 221 INTRODUCTION TO COMPUTER GRAPHICS AND INTERFACE DESIGN (3-0-3)(F). Includes elementary rasterization, perspective and viewport transformations. Basics of graphical user interface design and construction, event-driven programming, callbacks, and Web programming. PREREQ: COMPSCI 125 or PERM/INST.

COMPSCI 225 INTRODUCTION TO COMPUTER SCIENCE II (4-0-4)(F,S). Introduction to notions of program correctness and to analysis of time and space requirements. Object-oriented programming, including hierarchies and inheritance. Abstract data types both basic (list, tree, set, and relation) and derived (queues, stacks, priority queues, and dictionaries) and their implementation and applications. Concrete data structures (linked lists, binary search trees, hash tables, etc.) PREREQ: COMPSCI 125.

COMPSCI 230 ETHICAL ISSUES IN COMPUTING (2-0-2)(F/S). Privacy, intellectual property rights, computer crime, codes of conduct. Risks and liabilities of computer-based systems. Electronic information and free speech. PREREQ: COMPSCI 225 and ENGL 102 and ENGR 102 or PHIL 101.

COMPSCI 253 OBJECT-ORIENTED PROGRAM DEVELOPMENT IN C (2-0-2)(S). Introduction to object-oriented style of programming in C. Basic structure of C programs, function pointers, variable argument lists, other generic programming techniques. Building software with Make. Testing and debugging techniques. Case studies. (Pass/Fail.) PREREQ: COMPSCI 225 or PERM/INST.

Upper Division

COMPSCI 342 DATA STRUCTURES AND ALGORITHMS (4-0-4)(F,S). Basic data structures (continued from COMPSCI 225), introduction to design and analysis of algorithms, fundamental algorithms for sequences, sets, graphs and combinatorial problems, introduction to complexity of problems. Examples are drawn from various areas of computer science. PREREQ: COMPSCI 225, MATH 170, and MATH 187, or PERM/INST.

COMPSCI 354 PROGRAMMING LANGUAGES (3-0-3)(F). Principles of programming languages: design, syntax, semantics, information binding, strings, arithmetic, input/output, recursion and extensibility. PRE/COREQ: COMPSCI 342 or PERM/INST.

COMPSCI 357 INTRODUCTION TO ARTIFICIAL INTELLIGENCE (3-0-3)(F). Topics in artificial intelligence: heuristic search, game playing, rule-based systems, genetic algorithms, and neural networks. Significant project work demonstrating various AI techniques. PREREQ: COMPSCI 225.

COMPSCI 367 (MATH 307) CRYPTOLOGY I (4-0-4)(F). Introduction to modular arithmetic. The study of: the RSA, El-Gamal, Diffie-Hellman, and Blum-Blum-Shrub public key cryptosystems, authentication and digital signatures, anonymity protocols. Protocol failures for these systems. Crosslisted with COMPSCI 367 and COMPSCI 567; credit may be received for only one of these three courses. PREREQ: MATH 170 and MATH 187.

COMPSCI 368 (MATH 308) CRYPTOLOGY II (4-0-4)(S). Introduction to groups, fields, polynomial rings and Lucas numbers. The study of: the Elliptic Curve, LUC, and NTRU public keys cryptosystems, authentication and digital signatures, anonymity protocols. Crosslisted with MATH 308 and COMPSCI 368/568; credit may be received for only one of these three courses. PREREQ: MATH 170 and MATH 187.

COMPSCI 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: COMPSCI 342 or PERM/INST.

COMPSCI 425 INTRODUCTION TO COMPUTER NETWORKS (3-0-3)(S). Concepts and implementation of TCP/IP internetworking: link, network, and transport layer protocols. Application layer services. Wireless networking basics. PREREQ: COMPSCI 253 and COMPSCI 342.

COMPSCI 430 PARALLEL COMPUTING (3-0-3)(F). Models of parallel computation. Fundamental design patterns used in parallel algorithms: partitioning, divide and conquer, software pipelining, synchronous computations and load balancing. Implementation on parallel clusters. Design of parallel systems. PREREQ: COMPSCI 253 and COMPSCI 342 or PERM/INST.

COMPSCI 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 COMPSCI or ECE credit, but not both. PREREQ: COMPSCI 117 or COMPSCI 125, and ECE 332 or PERM/INST.

COMPSCI 450 PROGRAMMING LANGUAGE TRANSLATION (4-0-4)(S). Theory and practice of formal language translation, experience with compiler construction tools under UNIX. Students work on significant projects. PREREQ: COMPSCI 253 and COMPSCI 342 and COMPSCI 354.

COMPSCI 453 OPERATING SYSTEMS (4-0-4)(F). Process management, concurrency, inter-process communication, synchronization, scheduling, memory management, file systems and security. Case studies of multiple operating systems. PREREQ: COMPSCI 253 and COMPSCI 342 and ECE 332.

COMPSCI 455 DISTRIBUTED SYSTEMS (3-0-3)(S). 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. Several software projects. PREREQ: COMPSCI 453 or PERM/INST.

COMPSCI 461 INTRODUCTION TO THE THEORY OF COMPUTATION (3-0-3)(F). Grammars, automata, Turing machines, decidability and complexity, language hierarchies, normal forms, NP completeness and reducibilities. Applications will be drawn from various areas of computer science. PREREQ: COMPSCI 342 or PERM/INST.

COMPSCI 464 COMPUTER GRAPHICS I (3-0-3)(F). Mathematics and programming techniques for computer graphics emphasizing raster graphics, rasterization algorithms, and scanline rendering. Two- and three-dimensional transformations, homogeneous coordinates, projections; clipping, hidden-surface removal. PREREQ: COMPSCI 342 and MATH 301; MATH 275 recommended.

COMPSCI 465 COMPUTER GRAPHICS II (3-0-3)(S). Polygonal representation of 3D objects, lighting models, shading and shadows, texture mapping, antialiasing, interactive graphics. Nonrecursive and recursive ray tracing. PREREQ: COMPSCI 464.

COMPSCI 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. PREREQ: COMPSCI 342 or PERM/INST.

COMPSCI 472 OBJECT-ORIENTED DESIGN PATTERNS (3-0-3)(S). Reviews object-oriented design principles, explains the goals and form of design patterns, and examines several well-known patterns. PREREQ: COMPSCI 342 or PERM/INST.

COMPSCI 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.

COMPSCI 498 SEMINAR (1-0-1)(F/S). Research, writing, and an oral presentation of a current topic in computer science. (Pass/Fail.) PREREQ: COMPSCI 342 or PERM/INST.

Department of Construction Management

College of Engineering

Engineering Technology Building, Room 201 Telephone 208 426-3764
http://coen.boisestate.edu/cm/home.asp Fax 208 426-4800

Chair and Associate Professor: Rebecca Mirsky. *Assistant Professors:* Cline, Davis.

Degrees Offered

- B.S. and Minor in Construction Management (B.S.C.M.)

Program Statement

The vision of the Construction Management program is to be recognized for providing consistent, high quality education for construction management professionals.

The mission of the Construction Management program is to provide a comprehensive education for the development of professional constructors who, through innovation, character and ability are prepared to meet the construction needs of society. The Construction Management program is accredited by the American Council for Construction Education (ACCE).

Students interested in the Construction Management program should note the following:

1. All construction management 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 construction management classes. Students will be evaluated based upon departmental policy CMGT04-002 found on the departmental web site.
2. All construction management classes take several field trips during the semester (normally scheduled on Friday afternoons).
3. No more than 32 credits may be taken from the College of Business and Economics.
4. Where a class is included in more than one list of electives, it may be used to fulfill only one requirement.

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.

Degree Requirements

Construction Management B.S.C.M.	
Course Number and Title	**Credits**
ENGL 101-102 English Composition	6
Area I—see page 45 for list of approved courses	
Area I core course in one field	3
Area I core course in a second field	3
Area I core course in any field	3
Area II—see page 45 for list of approved courses	
COMM 101 Fundamentals of Speech Communication	3
ECON 202 Principles of Microeconomics	3
Area II core course in any field	3
Area III	
MATH 160 Survey of Calculus **OR** MATH 170 Calculus I	4
PHYS 111 General Physics **OR** PHYS 211, 211L, Physics I with Calculus and Lab	4-5
PHYS 112 General Physics **OR** PHYS 212, 212L Physics II with Calculus and Lab	4-5
ACCT 205 Introduction to Financial Accounting	3
ACCT 206 Introduction to Managerial Accounting	3

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Construction Management (continued)	
BUSSTAT 207 Statistical Techniques for Decision Making I	3
CE 210, 211 Engineering Surveying and Lab	3
CE 360 Engineering Properties of Soils	3
CE 361 Engineering Properties of Soils Lab	1
CMGT 141 Construction Materials and Methods	4
CMGT 240 Introduction to Construction Management	3
CMGT 245 Construction Drawings, Specifications and Codes	3
CMGT 246 Construction Engineering Graphics	1
CMGT 320 Construction Equipment and Methods	3
CMGT 350 Mechanical and Electrical Installations	4
CMGT 367 Construction Estimating	3
CMGT 374 Construction Operations and Improvements	3
CMGT 380 Advanced Estimating	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 441 Construction Management **OR** CMGT 475 Project Management	3
CMGT 460 Project Cost Controls	3
ENGL 202 Technical Communication **OR** BUSCOM 201 Business Communication	3
ENGR 205 Mechanics/Statics **OR** ENGR 210 Engineering Statics	3
ENGR 306 Mechanics of Materials **OR** ENGR 350 Engineering Mechanics of Materials	3
ENGR 360 Engineering Economy **OR** FINAN 303 Principles of Finance	3
GENBUS 202 The Legal Environment of Business	3
ITM 104 Operating Systems and Word Processing Topics **AND** ITM 105 Spreadsheet Topics	2
MATH 147 Precalculus Students able to immediately take either MATH 160 or 170 must make up these credits by taking an additional course in an Area II or Area III field.	5
Management chosen from: MGMT 301, MGMT 410, MGMT-ENT 320	3
Labor Relations course chosen from: MGMT-HR 305, MGMT-HR 330, or MGMT-HR 340	3
Specialty Construction elective chosen from: CMGT 441 CMGT 470, CMGT 475, CMGT 487, CMGT 488, CMGT 493, CMGT 496, CMGT 497, CE 310, CE 340, CE 352, CE 390	3
Technical electives chosen from any Area III, ITM, **OR** College of Engineering courses	3
Electives to total 132	0-6
Total	132

Construction Management Minor	
Course Number and Title	**Credits**
CMGT 240 Introduction to Construction Management	3
CMGT 245 Construction Plans and Specifications	3
CMGT 246 Construction Engineering Graphics	1
CMGT 367 Construction Estimating	3
CMGT 374 Construction Operations and Improvements	3
CMGT 385 Construction Contracts and Law	3
CMGT 417 Project Scheduling	3
Upper-division CMGT courses	3
Total	22

Course Offerings

See page 65 for a definition of the course-numbering system.

CMGT—CONSTRUCTION MANAGEMENT

Lower Division

CMGT 141 CONSTRUCTION MATERIALS AND METHODS (3-3-4)(F/S). Introduction to construction vocabulary and knowledge and safe practices. Identification of construction materials, elements and systems. Hands-on applications in site layout, formwork and concrete; masonry, steel; wood; and other construction materials. PREREQ: MATH 108 or equivalent.

CMGT 240 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. Occasional Friday field trips required. PREREQ: MATH 108.

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. Occasional Friday field trips required. PREREQ: CMGT 141.

CMGT 246 CONSTRUCTION ENGINEERING GRAPHICS (0-3-1)(F,S). Orthographic projections, graphic communication and 3 dimensional visualization with an awareness of standard drafting tools & techniques, computer aided drafting and free hand sketching.

Upper Division

CMGT 320 CONSTRUCTION EQUIPMENT AND METHODS (3-0-3)(F/S). Characteristics, capabilities, limitations and employment of general building and heavy construction equipment. Friday field trips required. PREREQ: ENGR 205 or ENGR 210.

CMGT 350 MECHANICAL AND ELECTRICAL INSTALLATIONS (4-0-4)(F/S). 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 Friday field trips required. PREREQ: CMGT 245 and either PHYS 112 or PHYS 212.

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 Friday field trips required. PREREQ: CMGT 240, CMGT 245, and MATH 147 or equivalent.

CMGT 374 CONSTRUCTION OPERATIONS & IMPROVEMENTS (3-0-3)(S). The use of statistical sampling, time and motion studies, crew balance analysis, flow and process charts to improve methods, labor efficiency, equipment and materials usage, safety and employee motivation, analysis of management methods for employee motivation and efficiency. Occasional Friday field trips required. PREREQ: CMGT 240.

CMGT 380 ADVANCED ESTIMATING (2-0-2)(F/S). Continues the estimating process from CMGT 367. Risk analysis, conceptual estimating, estimate accuracy, constructability, and subcontractor qualification and bid analysis. PREREQ: CMGT 367.

CMGT 385 CONSTRUCTION CONTRACTS AND LAW (3-0-3)(F/S). Covers contracts, contract documents, and the construction law environment including contractor licensing, lien law, local and national labor law and dispute resolution. Occasional Friday field trips required. PREREQ: 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 Friday field trips required. PREREQ: ENGR 306.

CMGT 417 PROJECT SCHEDULING (2-2-3)(F/S). Gantt charts, S-curves, Critical Path Method (CPM), computerized scheduling, PERT charts, resource leveling and time cost trade offs used as planning, scheduling, and management techniques. PREREQ: CMGT 240.

CMGT 420 REINFORCED CONCRETE AND STEEL CONSTRUCTION (3-0-3)(F/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 306.

CMGT 441 CONSTRUCTION MANAGEMENT (2-3-3)(F/S). Students combine construction field supervision concepts and skills into a comprehensive project that includes supervision and safety procedures, labor relations, quality control, monitoring/ inspection of construction operations, documentation procedures, ethics, and other topics. Students are required to take the AIC Level 1 Certified Professional Constructor Exam as a culminating activity. PREREQ/ COREQ: CMGT 417 and senior status.

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/S). 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 PROJECT MANAGEMENT (3-0-3)(F/S). Principles of business development and construction contract management including preparation of proposals, risk management, quality assurance, ethics, claims, and negotiations. Students are required to take the AIC Level 1 Certified Professional Constructor Exam as a culminating activity. PREREQ: CMGT 385 and senior status.

CMGT 487 PRINCIPLES OF PROJECT PROPOSAL PREPARATION AND PRESENTATION (1-0-1)(F). Problem analysis, strategic thinking, organization, and communication of a team's written and oral response to a request for proposal. Typical proposal types: Heavy Civil, Commercial, Residential, Design-Build, or another appropriate construction project category. PREREQ: CMGT 240.

CMGT 488 PROPOSAL SEMINAR (2-0-2)(S). The formation and delivery of a formal construction industry proposal. Includes presentation of a proposal before a group of industry professionals in a competitive setting. PREREQ: CMGT 487.

CMGT 493 INTERNSHIP. 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. Construction studies as supervised by a construction faculty member.

Department of Counselor Education

College of Education

Education Building, Room 643 Telephone 208 426-1219
e-mail: kcoll@boisestate.edu

Chair and Professor: Kenneth Coll. *Professor:* Birdsall, Cutler, Doumas

Degrees Offered

- Master of Arts in Counseling
- Graduate Certificate in Addiction Studies
- Graduate Certificate in Gerontological Studies

Department Statement

The department houses the graduate counseling programs, offers a variety of undergraduate classes, and provides course work 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 65 for a definition of the course-numbering system.

COUN—COUNSELING

COUN 458 DEPRESSION (1-0-1)(S). Examines depression as both an academic subject matter and personal expression of mood associated with health and psychological problems. Assesses the symptoms, causes and related treatments for the range of depressive related problems from situational based depression and grief reactions to major clinical depression and bipolar disorder.

COUN 459 FEARS AND PHOBIAS (1-0-1)(F). An overview of the symptoms and underlying casual factors associated with the range of anxiety-based problems. A continuum of severity is presented across the normal impact of stress to severe "anxiety disorders' (panic, phobias, obsessive-compulsive, generalized, post-traumatic, and acute stress). Anxiety based problems are analyzed in terms of the interactions between behavior, affect, somatic, interpersonal and cognitive factors that operated in a cyclical fashion.

Department of Criminal Justice

College of Social Sciences and Public Affairs

Library Building, Room 166 Telephone 208 426-3407
http://cja.boisestate.edu Fax 208 426-4371
e-mail: sraney@boisestate.edu

Chair and Associate Professor: Andrew Giacomazzi. *Professors:* Blankenship, Hemmens, Stohr, Walsh. *Associate Professors:* Marsh, Mueller. *Assistant Professors:* Ball, Bostaph, Yun. *Graduate Coordinator:* David Mueller.

Degrees Offered

- A.S., B.A., and B.S. in Criminal Justice
- M.A. in Criminal Justice (See the *BSU Graduate Catalog*)

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.

Degree Requirements

Upper Division Admission
Chair: Dr. Andrew Giacomazzi
Library, Room 166-A, Telephone 208 426-3407

The Department of Criminal Justice requires all criminal justice majors to apply for admission to upper-division standing. To be admitted to upper-division standing, a student must meet the following criteria prior to enrolling in 300-level criminal justice courses. Criminal justice majors enrolling in upper-division criminal justice courses without approved upper-division standing will be withdrawn administratively from the courses. Upper-division nonmajors will be permitted to enroll in specific courses with permission from the department chair and the instructor.

Minimum Criteria for Admission to Upper-division Standing

1. Admission to Boise State University.
2. Completion of the following courses with a B- or better in each course: ENGL 101; ENGL 102; SOC 101; PSYC 101; POLS 101; COMM 101; three credits of history (B.A. only); 6 credits of Area I; and eight credits of Area III lab science and/or mathematics (3-5 credits must be mathematics).
3. Completion of the following CJ lower-division courses with a B- or better in each course: CJ 101, CJ 102, CJ 103, and CJ 104.
4. Cumulative GPA of 2.75 or higher at the time of application is required.
5. At least 58 credits (including course work 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.

Criminal Justice Associate of Science	
Course Number and Title	**Credits**
ENGL 101-102 English Composition	6
Area I—see page 45 for list of approved courses	
Area I core courses	6
Area II—see page 45 for list of approved courses	
COMM 101 Fundamentals of Speech Communication	3
POLS 101 American National Government	3
SOC 101 Introduction to Sociology	3
Area II core course in history	3
Area III—see page 45 for list of approved courses	
Area III core course in a mathematics	3-5
Area III core course in natural science	4
CJ 101 Introduction to Criminal Justice	3
CJ 102 Introduction to Police	3
CJ 103 Introduction to Law and Justice	3
CJ 375 Law of Criminal Evidence	3
CJ 376 Law of Arrest, Search and Seizure	3
POLS 102 State and Local Government	3
PSYC 101 General Psychology	3
SOC 210 Computer Applications in Social Science	4
Electives to total 64	6-7
Total	64
NOTE: The A.S. degree awarded in criminal justice does not meet the university core requirements and do not comply with the Idaho Statewide Articulation Policy.	

Criminal Justice Bachelor of Arts or Science	
Course Number and Title	**Credits**
ENGL 101-102 English Composition	6
Area I—see page 45 for list of approved courses	
Area I core course in one field	3
Area I core course in a second field	3
Area I core course in a third field	3
Area I core course in any field (B.A. must complete three credits of Area I core literature.)	3
Area II—see page 45 for list of approved courses	
COMM 101 Fundamentals of Speech Communication	3
POLS 101 American National Government	3
PSYC 101 General Psychology	3
SOC 101 Introduction to Sociology (B.A. must complete three credits of Area II history.)	3
Area III—see page 45 for list of approved courses	
Area III core course in a mathematics	3-5
Area III core course in a second field	4
Area III core course in any field	4

—continued—

Criminal Justice (continued)	
CJ 101 Introduction to Criminal Justice	3
CJ 102 Introduction to Police	3
CJ 103 Introduction to Law and Justice	3
CJ 104 Introduction to Corrections	3
CJ 315 Theories of Crime	3
CJ 317 Juvenile Justice	3
CJ 321 Criminal Law	3
CJ 363 Criminal Justice Management	3
CJ 425 Research Methods	3
CJ 426 Statistics	3
CJ 498 Senior Seminar	3
Upper-division criminal justice electives A maximum of 3 credits of CJ 493 Internship may be used	9
Upper-division electives to total 40 credits	10
Electives to total 128 credits	33-35
Total	128

Course Offerings

See page 65 for a definition of the course-numbering system.

CJ—CRIMINAL JUSTICE

Lower Division

CJ 101 INTRODUCTION TO CRIMINAL JUSTICE (3-0-3)(F). 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). 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)(S)(Area II). 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)(S). History, theory, practices, and research in adult, community, and institutional corrections.

Upper Division

CJ 301 ADMINISTRATION OF JUSTICE (3-0-3)(F/S). Administration of the criminal court system, issues confronting the court system are considered from historical, legal, philosophical, sociological and psychological perspectives.

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). 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)(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)(S). Elements and application of federal and state criminal statutes. The effect of differential enforcement on the tolerance limits of society.

CJ 331 CORRECTIONS IN THE COMMUNITY (3-0-3)(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 criminal justice 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.

CJ 362 (SOC 362) CORRECTIONAL THEORY AND PRACTICE (3-0-3)(F). 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). 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 criminal justice 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 LAW OF CRIMINAL EVIDENCE (3-0-3)(F). Presentation of the laws and rules of evidence, burden of proof, exclusionary rule, presumption, opinion evidence, and leading court cases involving the presentation and acceptability of evidence. Witness examination procedures and related legal problems are presented. PREREQ: CJ 103.

CJ 376 LAW OF ARREST, SEARCH AND SEIZURE (3-0-3)(S). A highly concentrated study of the legalities and decision-making processes associated with arrest, search, and seizure in accordance with statutes, case law and Supreme Court decisions as they relate to constitutional protections. PREREQ: CJ 103.

CJ 425 RESEARCH METHODS (3-0-3)(F/S). Quantitative and qualitative research methodologies. PREREQ: Upper-division criminal justice standing.

CJ 426 STATISTICS (3-0-3)(F,SU). Introduction to basic research methods in criminal justice. Exploration of the philosophy of science, research designs and their implementation, and elementary statistical techniques. Emphasis is placed on guiding students in interpreting criminal justice statistics and research. PREREQ: CJ 425 and 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 471 CRIMINALISTICS (3-0-3)(F/S). Major concepts of forensic science and investigator role in crime scene evidence collections.

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)(S). Exploration of current and anticipated critical issues and problems in the criminal justice system. PREREQ: Senior and upper-division criminal justice standing.

Department of Curriculum, Instruction, and Foundational Studies

College of Education

Education Building, Room 228 Telephone: 208 426-1672
http://education.boisestate.edu Fax: 208 426-4006

Chair and Assistant Professor: Keith Thiede. *Associate Chair and Associate Professor:* Rickie Miller. *Professors:* Anderson, Parrett, Singletary, Willison. *Associate Professor:* Brendefur, Kelly, Rogien, Snow-Gerono. *Assistant Professors:* Budge, Osguthorpe, Smart.

Degrees Offered

- B.A. in Elementary Education
- M.A. in Education with emphases in curriculum and instruction (See the *BSU Graduate Catalog*).
- M.Ed. in Educational Leadership (See the *BSU Graduate Catalog*).
- Ed.D. in Curriculum and Instruction (See the *BSU Graduate Catalog*)
- Graduate Certificate in Secondary/K-12 Teaching (See the *BSU Graduate Catalog*).

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 learners as reflective practitioners, scholars and artists, problem solvers, and partners.

In preparatory course work, 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 K-12 classrooms and provide opportunities to practice methods of teaching appropriate for the content being taught. 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 exemplary 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. Faculty members in the department are encouraged and supported in their efforts to conduct applied and action research in school settings.

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. For endorsements in specialized areas see programs offered by the following departments: Bilingual Education, Literacy, and Special Education and Early Childhood Studies.

Admission to Elementary Teacher Education

Students preparing to become elementary school teachers must be accepted for admission to the elementary teacher education program. Admission to elementary teacher education is required before a student may enroll in certain upper-division teacher education courses. A $50 assessment fee is due upon application to the Office of Teacher Education. All admission requirements must be completed before admission will be granted.

It is the student's responsibility to provide transcripts and other documentation to demonstrate requirements have been met. Application is available online (http://education.boisestate.edu/teachered/) and delivered to the Office of Teacher Education, Education Building, Room 722.

The admission requirements are:

1. Application Package:

- A completed application form (http://education.boisestate.edu/teachered/)
- A transcript indicating the completion of prerequisite course work
- Passing score on the PRAXIS I in mathematics (175) and writing (172). For information access the PRAXIS web site at http://www.ets.org/praxis/. Passing score on the PRAXIS I in mathematics and writing must be on file in the Office of Teacher Education prior to application.

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 2.5.**
- **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, but ENGL 102 is required.)
- **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.
- **Area I and Area II Core Courses.** Nine of the twelve required credits in each area with a minimum grade of C in each course.
- **Teacher Education Pre-Professional Courses.** ED-BLESL 200 or ED-SPED 250, and ED-CIFS 201, ED-CIFS 203, and ED-CIFS 231 with a minimum grade of C in each course and an average GPA of at least 2.75 for all teacher education courses.

No other exams will be accepted in lieu of the PRAXIS.

Limitations to Admission

Because of the large number of students seeking admission to elementary teacher education, not all applicants can be admitted. Each academic year, a target number of applicants is established and applicants are accepted until that number is reached. Priority is given to those with the highest academic grade point average and to those majoring in specialty areas that have been identified as shortage areas in Idaho. (Shortage areas may change over time.)

Continued Enrollment

Professional Standards Each student's record must be reviewed and approved before s/he is permitted to continue in the program. 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 in the *Handbook for Field Experience* (http://education.boisestate.edu/teachered/fieldexp.htm), in the *Code of Ethics of the Idaho Teaching Profession*, and *Idaho Initial Certification Standards*.

Any student denied continued enrollment in the program is entitled to due process.

Admission to the Professional Year

It is the student's responsibility to provide transcripts and other documentation to show that the requirements have been met. Applications are completed on-line (http://education.boisestate.edu/teachered/appinfo.htm) and delivered to the Office of Teacher Education in the Education Building, Room 722.

1. Application Package:

- A completed application form (http://education.boisestate.edu/teachered)
- A transcript indicating academic requirements have been met

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
- A cumulative grade point average of at least 3.0 in all teacher education courses and an overall grade point average of at least 2.75.
- Passing scores on the Idaho Comprehensive Literacy Assessment (ICLA), Standards 1, 2, and 3.
- Passing score on Praxis II: Elementary Content Knowledge and Praxis II: Principles of Learning and Teaching. For information please access the PRAXIS website at http://www.ets.org/praxis/.
- If you wish to student teach in a major or minor endorsement area, passing scores on PRAXIS II in your major and minor fields are needed. The State of Idaho requires a passing score for any endorsement in which you certify.
- Passing score on PRAXIS II: Elementary Content Knowledge, PRAXIS II: Principles of Learning and Teaching Grades K-6 or 5-9, and ICLA Standards 1, 2, and 3 must be on file in the Office of Teacher Education prior to acceptance into the Professional Year.
- Fingerprinting may be required to student teach in some districts

Special Information for the Professional Year

1. Students who transfer to Boise State University 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 supervisors.
3. 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.
4. The professional year can be taken only once.
5. Students pay a $100 fee upon registration for student teaching.
6. Students can expect to be placed in a school within a 50 mile radius of Boise State University.
7. 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 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.
2. 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 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). This will include:
   - completed fingerprint card
   - criminal history check
2. Official transcripts from ALL colleges and/or universities attended.
3. Completed Institutional Recommendation from Office of Teacher Education.
4. Official PRAXIS II assessment score sheet or notarized copy for all PRAXIS II assessments.
5. Idaho Comprehensive Literacy Assessment Certificate.

Degree Requirements

Elementary Education Bachelor of Arts	
Course Number and Title	**Credits**
ENGL 101-102 English Composition NOTE: Students not required to take ENGL 101 must complete an additional 3 credits of English. For certification purposes, elementary education majors must complete a total of 12 hours of English, including both composition and literature.	6
Area I—see page 45 for list of approved courses	
Two (2) Area I core courses in English Area I core course in art or music Any Area I core course in a third field	6 3 3
Area II—see page 45 for list of approved courses	
HIST 111/211 or 112/212 United States History PSYC 101 General Psychology Area II core course in Geography Area II core cultural diversity course in Social Studies (ANTH, ECON, GEOG, HIST, POLS, or SOC)	3 3 3 3
Area III—see page 45 for list of approved courses	
MATH 257 Geometry and Probability for Teachers Area III core course in a second field Area III core course in any field NOTE: Elementary education majors must have courses in at least two of the following disciplines: biological science, earth science (Geology), or physical science (Chemistry or Physics)	4 4 4
ART 321 Elementary School Art Methods **OR** MUS 374 Music Methods for Elementary School Teacher	3
ED-BLESL 200 Cultural Diversity in the School	3
ED-CIFS 201 Foundations of Education ED-CIFS 203 Child and Educational Psychology ED-CIFS 231 Teaching and Learning in Elementary Schools ED-CIFS 330 Elementary Social Studies Curriculum and Methods ED-CIFS 331 Elementary Mathematics Curriculum and Methods ED-CIFS 332 Elementary Classroom Management Skills ED-CIFS 333 Elementary Science Curriculum and Methods **OR** ENGR 385 Science Methods Through Engineering ED-CIFS 460 Professional Year I ED-CIFS 461 Professional Year II: Teaching Experience in Elementary Education	3 3 3 3 3 3 3 5 7
ED-LTCY 340 Idaho Comprehensive Literacy Course ED-LTCY 346 Children's Literature ED-LTCY 440 Content Area Language Arts: K-8	4 3 3
ED-SPED 250 Exceptionality in the Schools	3
One of the following: ED-BLESL 469, ED-ECS 462, ED-ECS 463, ED-ECS 464, ED-CIFS 465, ED-CIFS 466, ED-SPED 467, ED-SPED 468	7
EDTECH 202 Educational Technology – Classroom Applications	3
KINES 355 Elementary School Health & PE Curriculum & Instruction	3
MATH 157 Structure of Arithmetic for Teachers	4
Electives to total 128	18
Total	128

Subject Area Endorsements

Students majoring in elementary education may select a subject area endorsement, which will strengthen them as teachers and may improve their employability. Students may select from the list below and become qualified to teach in the selected area in junior high/middle school, including ninth grade.

Subject area endorsements listed below are cited from the *Idaho Department of Education Professional School Personnel Certification Standards*, and are listed under Standards for Subject Area Endorsements on Standard/Advanced Secondary Certificates. A minimum of 20 semester credit hours is required for each endorsement.

American Government Endorsement No fewer than six semester credit hours in American government, six semester credit hours in American history, and three semester credit hours in comparative government. The remaining work is to be history or political science.

Arts and Crafts Endorsement Credits to include a minimum of six hours each in design and drawing and three hours each in art history and painting. Students will select three hours of one of the following courses: ceramics, sculpture, photography, printmaking, multicultural arts (two hours), or art metals. Both ART 322 and ART 351 are required (eight hours plus 60 clinical experience hours.)

Biological Science Endorsement Credits distributed in the areas of botany and zoology, including at least six semester credit hours in each. Some work in physiology is recommended.

Consumer Economics Endorsement Requires an endorsement in social studies, home economics, business education, agriculture, basic business, or marketing and with no fewer than nine semester hours (including six semester credit hours in economics and three semester credit hours in a course designed for the average consumer).

Drama Endorsement No fewer than sixteen semester credit hours in drama. The remainder to be in speech, or hold an English endorsement with at least six semester credit hours in drama.

Earth Science Endorsement Twenty semester credit hours including course work in each of the following: Earth Science, Astronomy, and Geology.

English Endorsement Credits to include at least six semester credits of composition, including course credit in advanced composition, three semester credits of English literature, three semester credits in American literature, and a course in writing methods for teachers. The remainder must be English credit courses such as linguistics, grammar, modern literature, classical literature, creative writing, advanced writing, mythology or folklore. In compliance with the above, at least 20 semester credit hours must be taken in the English department for an English minor endorsement.

Health Education Endorsement Credits distributed to include course work in health instructional areas, science applicable to health education, organization and administration of health education and methodology.

History Endorsement No fewer than nine semester credits in U.S. history and no fewer than three semester credits in American government. The remaining work is to be in history and political science.

Journalism Endorsement No fewer than 16 semester credits in journalism. The remainder, if any, to be in English, or hold an English endorsement with at least six semester credits in journalism.

Mathematics Endorsement There are two levels of mathematics endorsement.

Basic Mathematics (limited to teaching up to and through the level of algebra I): Credits in mathematics to include college credits in algebra, geometry and trigonometry.

Standard Mathematics Credits in mathematics to include course work in calculus and analytical geometry. The remainder may be selected from courses such as abstract algebra or linear algebra, probability and statistics, and geometry.

Modern Languages Endorsement Credits must be at the 200 level or above in the language in which the endorsement is sought.

Music Endorsement Credits to include course work in theory and harmony, applied music (voice, piano, organ, band and orchestra instruments), history and appreciation, conducting, and music methods and materials.

Natural Science Endorsement Credits to include no fewer than six semester credits in biological science, six semester credits in physical science, and six semester credits in earth science. The remainder shall be selected from any of the natural science areas. To be endorsed in Natural Science you must have an endorsement in Biology, Physics, Chemistry, or Geography.

Physical Education Endorsement Credits distributed to include course work in movement skills, science applicable to physical education, organization and administration of physical education, health education, physical education methodology and evaluation.

Physical Science Endorsement Twenty semester credit hours to include at least eight semester credits in chemistry and eight semester credits in physics.

Reading Endorsement The endorsement in reading provides enhanced depth and breadth of course work in reading and language arts. This enhanced knowledge allows the student to be endorsed in reading education K-12. Twenty semester credits are required, which includes a minimum of one or more courses from each of the five following areas: Foundations of Reading or Developmental Reading, Content Area Reading, Corrective/ Diagnostic/ Remedial Reading, Psycholinguistics/Language Development and Reading, and Literature for Children and Adolescents. The courses listed here represent suggestions that fulfill the 20 credit endorsement.

Of the minimum twenty (20) semester credit hours needed for this endorsement, sixteen (16) credit hours must be divided among Areas I-V so that credit hours are earned from each area. Elementary Education majors seeking this endorsement must also take ED-LTCY 345 (3 credits). One additional credit hour taken from Area VI: Electives will count towards this endorsement.

Reading Endorsement: K-8, or 6-12, or K-12	
Course Number and Title	**Credits**
Area I: Foundations of Developmental Reading ED-LTCY 340 Idaho Comprehensive Literacy Course	4
Area II: Reading in the Content Area (ED-LTCY 440 & 444 are required for K-12 endorsement) ED-LTCY 440 Content Area Language Arts: K-8 (Required for K-8 endorsement only) ED-LTCY 441 Content Area Language Arts: K-3 ED-LTCY 444 Content Literacy for Secondary Students **OR** ED-LTCY 450 Content Area Literacy for Secondary Students (Required for 6-12 endorsement only)	3-6
Area III: Corrective/Diagnostic/Remedial Reading ED-LTCY 341 Literacy, Learning and Assessment: K-3 **AND** ED-LTCY 342 Literacy, Learning and Assessment: 4-8 **OR** ED-LTCY 343 Reading Diagnosis and Intervention	3-4
Area IV: Psycholinguistics/Language Development and Reading ED-ECS 320 Language Development, Assessment & Intervention **OR** ED-LTCY 348 Psycholinguistics and Literacy **OR** LING 305 Introduction to Language Studies **OR** LING 306 Modern English Grammar **OR** LING 406 Psycholinguistics	3
Area V: Literature for Children or Adolescents ED-LTCY 346 Children's Literature ED-LTCY 447 Young Adult Literature ENGL 481 Literature for Use in Junior and Senior High Schools	3

—continued—

Reading Endorsement: K-8, or 6-12, or K-12 (continued)	
Area VI: Electives to total 20 credits from the following list ED-BLESL 302 Teaching Reading Bilingually ED-LTCY 345 Writing Process and Assessment: K-8 Classroom ED-LTCY 364 Field Experience in Literacy ED-LTCY 493 Internships in Reading (Reading/Study Strategies Internship with ED-LTCY 105 and Internship in Classrooms) ED-LTCY 494 Workshops in Literacy ED-LTCY 496 Independent Study in Literacy ED-LTCY 497 Special Topics in Literacy ED-SPED 352 Differentiated Instruction for Academic Skills ED-SPED 353 Differentiated Instruction in the Content Area	0-4
Total	20

Social Studies Endorsement Credits to include no fewer than six semester credits in U.S. History and no fewer than three semester credit hours in American government. In addition, work in the following fields: economics, geography, psychology, sociology, and world history. To be endorsed in Social Studies you must have an endorsement in American Government/Political Science, Economics, Geography, History, Psychology, or Sociology.

Special Education Generalist K-12 Endorsement The Special Education Generalist K-12 Endorsement program emphasizes provision of educational services for students who have disabilities in inclusive school settings, and results in the Idaho Special Education Generalist K-12 Endorsement appended to either an elementary or secondary teaching certificate. All students seeking this endorsement, including students who already possess an elementary or secondary teaching certificate, must meet all admission requirements for the Department of Curriculum, Instruction, and Foundational Studies. Students should plan their programs early, consulting with a member of the Special Education faculty.

Special Education Generalist K-12 Endorsement	
Course Number and Title	**Credits**
Completion of pre-endorsement area in special education	13
ED-SPED 356 Instruction for Students with Severe Disabilities ED-SPED 357 Formal Assessment for Special Education ED-SPED 451 Special Education and the Law ED-SPED 452 Instruction for Adolescents with Disabilities	2 2 2 2
Total	21
NOTE: In addition to the above courses, for Elementary Education students the Idaho Special Education Generalist K-12 Endorsement also requires ED-SPED 250, ED-LTCY 340, and ED-SPED 467. Each of these courses or their equivalents is already required in the BSU Elementary Education B.A. program. For Secondary Education students, in addition to the above courses, the Idaho Special Education Generalist K-12 Endorsement also requires ED-SPED 350, ED-CIFS 301, ED-LTCY 340, and ED-SPED 467. ED-SPED 350 and ED-CIFS 301 are already required in the BSU Secondary Education B.A. program.	

Severe Disabilities Endorsement The Special Education Severe Disabilities K-12 Endorsement program emphasizes provision of educational services for students who have severe disabilities.

Special Education Severe Disabilities K-12 Endorsement	
Course Number and Title	**Credits**
Completion of Special Education Generalist K-12 Endorsement	21
ED-SPED 456 Contemporary Practices in Severe Disabilities ED-SPED 468 Prof Year III: Teaching Experience in Special Education. Severe Disabilities	2 7
Total	30

Speech Endorsement No fewer than 20 semester credits to include methods of teaching speech communication and course work in at least four of the following fields: interpersonal communication/ human relations, public speaking, nonverbal communication, group communication, argumentation/ persuasion, and drama/theatre arts or hold an English endorsement with at least 12 semester credit in speech communication, with course work to include methods of teaching speech communication, public speaking, and interpersonal communication/human relations.

Speech-Drama Credits distributed in both fields with no fewer than six semester credit hours in each.

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 content area(s) being studied. Course work in secondary teacher education emphasizes the development of values aimed at a healthy society within a global community. Candidates who complete an approved program of study are exemplary 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 (at least 30 credit hours) and required professional education course work leads to a recommendation to the Idaho Department of Education for Idaho certification. To enhance employment options, it is highly recommended that students complete a minor endorsement area (at least 20 credit hours) in another field. Endorsements are discussed at the end of this section. Students who do not have an endorsement in a second area must have at least 45 credit hours in the major endorsement area.

Professional course work for the secondary education option is taken through the Department of Curriculum, Instruction, and Foundational Studies.

Secondary teacher education programs are offered and degrees conferred by the college in which the subject area program is located. Programs are listed below by the college and department in which they are offered.

Departments and Programs in Secondary and K-12 Education

College of Arts and Sciences

Art (Art, K-6 or K-12, Secondary Education)
Biology (Biology, Secondary Education)
Chemistry (Chemistry, Secondary Education)
Geosciences (Earth Science Education)
English (English Teaching)
Mathematics (Mathematics, Secondary Education)
Modern Languages and Literatures (French, German or Spanish, Secondary Education)
Music (Music Education)
Physics (Physics, Secondary Education)
Theatre Arts (Theatre Arts, Secondary Education)

College of Business and Economics

Economics (Economics, Social Studies, Secondary Education)

College of Education

Kinesiology (K-12 Physical Education)

College of Social Sciences and Public Affairs

Anthropology (Anthropology, Social Studies, Secondary Education)
Communication (Communication, Secondary Education)
History (History, Social Studies, Secondary Education, Latin)
Political Science (Political Science, Social Science, Secondary Education)
Sociology (Sociology; Social Science, Secondary Education; Social Studies, Secondary Education; Interdisciplinary Social Science, Secondary Education)

Admission to Secondary Teacher Education

Admission to secondary teacher education is required before a student can enroll in Block I. All admission requirements must be completed before admission is granted. Application is made through the Office of Teacher Education, Education Building, Room 722.

The admission requirements are:

1. Application Package:

- A completed application form (http://education.boisestate.edu/teachered)
- A transcript indicating the completion of prerequisite course work
- 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:

- A minimum cumulative grade point average of 2.5.
- A minimum grade point average of 3.00 in all education classes.
- A minimum grade of C in ED-CIFS 201 Foundations of Education or its equivalent.
- Successful completion of the PRAXIS I for writing (172). For information please access the PRAXIS* web site at http://www.ets.org/praxis/ or pick up a registration packet in the Education Building, Room 722.
- A minimum grade of C in EDTECH 202 Educational Technology-Classroom Applications.
- A passing score on the PRAXIS I for mathematics is required for those seeking an endorsement in special education.

  *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, a target number of applicants is established and applicants are accepted until the number is reached. Priority is given to those with the highest academic grade point average 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 course work 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 regarding the student's knowledge, skills, and disposition necessary for success as a teacher, determined through coursework, observation, and interviews.

Further information about these traits may be found in the *Handbook for Field Experience* (http://education.boisestate.edu/teachered/fieldexp.htm), and in the *Idaho Initial Certification Standards*.

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. Student teaching is scheduled through the Office of Teacher Education, Education Building, Room 722.

1. Application Package:

- A completed application form (http://education.boisestate.edu/teachered)
- A transcript indicating academic requirements have been met

2. Deadlines:

- First Friday in February for students desiring to student teach during the fall semester
- Third Friday in September for students desiring to student teach during the spring semester

3. Academic Requirements:

- Minimum cumulative grade point average of 2.5
- Minimum grade point average of 2.75 in the major field, minor field (if applicable), and in all required education courses
- Senior standing and successful completion of Block I
- Completion of sufficient credit hours in subject areas assigned for student teaching (varies by program).
- Passing scores on PRAXIS II in your major and minor fields are needed to start Block III. The State of Idaho requires a passing score for any minor endorsement in which you certify.
- Fingerprinting may be required to student teach in some districts

Special Information for the Professional Year

1. Students who transfer to Boise State University 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. 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 the Education Building, Room 722.
4. The professional year can be taken only once.
5. Students pay a $100 fee upon registration for student teaching.
6. Students can expect to be placed in a school within a 50 mile radius of Boise State University.
7. Students accepted to 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 master's if the GPA was 3.0 or better. Also, the GPA in the major content area must be a 3.0 for master's and 2.75 for second bachelor's. The College of Education has no certification - only program. You must enroll in a degree program.
   - If you want a single subject certification, you must complete 45 semester credit hours in the credit hours in the content area in which you want to teach, as evaluated by the department of interest (i.e., the Boise State academic department responsible for your major).

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	Educational Technology—Classroom Applications	3
Block I		
ED-CIFS 301	Teaching Experience I	1
ED-CIFS 302	Learning and Instruction	4
ED-SPED 350	Teaching Students with Exceptional Needs at the Secondary Level	3
Block II		
ED-CIFS 401	Professional Year—Teaching Experience II	2
ED-LTCY 444	Content Literacy for Secondary Students	3
	Content Methods Course	3
Block III		
ED-CIFS 484/485	Professional Year—Teaching Experience III	16
ED-CIFS 481	Professional Year—Teaching Experience III*	8
Block IV		
ED-CIFS 482/483	Year—Teaching Experience IV*	8

*Candidates majoring in Art, Music, and Physical Education complete two eight-week, 8 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 16 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). This will include:
   - completed fingerprint card
   - criminal history check
2. Official transcripts from ALL colleges and/or universities attended.
3. Completed Institutional Recommendation from Office of Teacher Education.
4. Official PRAXIS II assessment score sheet.

Minor Endorsements for Certification

- Candidates in a secondary teacher education program are encouraged to complete additional credits in a minor endorsement area. Endorsements require 20-29 credits depending on the discipline. Certification endorsements are offered in a broad range of areas including:

  Art
  Biology
  Chemistry
  Classical Languages (Latin)
  Communication (Speech)
  Earth Science
  Economics
  English
  Foreign Language (French, German, or Spanish)
  Geography
  Health Education
  History
  Mathematics
  Music (Instrumental)
  Music (Choral)
  Natural Science
  Physical Science
  Political Science
  Psychology
  Sociology/Anthropology
  Theatre Arts

- The sequence of courses for each of these minor endorsement areas is listed under the department, which offers the program, except Natural Science. Natural Science involves taking courses in more than one science. The program is listed in the Department of Geosciences section of this chapter:

Course Offerings

See page 65 for a definition of the course-numbering system.

ED-CIFS — EDUCATION-CURRICULUM, INSTRUCTION, AND FOUNDATIONAL STUDIES

Lower Division

ED-CIFS 201 FOUNDATIONS OF EDUCATION (3-0-3)(Area II)(Diversity). Social, multicultural, philosophical, and historical perspectives in education; current educational issues; and problems of education. It provides a conceptual framework from which students will learn to reflect upon and question ways of knowing, both individually and as members of a larger community.

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.

ED-CIFS 231 TEACHING AND LEARNING IN ELEMENTARY SCHOOLS (2-3-3)(F/S). Introduction to elementary curriculum, instruction, assessment, school culture, and individual learner characteristics. Includes a classroom experience.

Upper Division

ED-CIFS 301 TEACHING EXPERIENCE I (0-3-1)(F,S). A 50-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-SPED 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 and ED-SPED 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 330 ELEMENTARY SOCIAL STUDIES CURRICULUM AND INSTRUCTION (3-0-3)(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.

ED-CIFS 333 ELEMENTARY SCIENCE CURRICULUM AND INSTRUCTION (2-3-3)(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). 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). 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). 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 401 PROFESSIONAL YEAR—TEACHING EXPERIENCE II (0-6-2)(F,S). Students will work with a master teacher for a minimum of 100 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-LTCY 444 and the content methods course for the students 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-SPED 350. COREQ: ED-CIFS 401 and ED-LTCY 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-SPED 350. COREQ: ED-CIFS 401 and ED-LTCY 444.

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 towards 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 course work. (Pass/Fail.) PREREQ: Admission to the Professional Year. COREQ: ED-SPED 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 course work. (Pass/Fail.) PREREQ: Admission to the Professional Year.

ED-CIFS 461 PROFESSIONAL YEAR II: TEACHING EXPERIENCE IN ELEMENTARY EDUCATION (0-21-7)(F/S). Teaching experience in a partnership school, including activities related to planning and preparation, classroom environments, curriculum and instruction, and professional responsibilities. Students will complete a full-time teaching experience consistent with the calendar of the assigned partnership school. (Pass/Fail.) PREREQ: ED-CIFS 330, ED-CIFS 331, ED-CIFS 332, ED-CIFS 333, ED-CIFS 460, and ED-LTCY 440. COREQ: one of the following: ED-BLESL 469, ED-CIFS 465, ED-CIFS 466, ED-ECS 462, ED-ECS 463, ED-ECS 464, ED-SPED 467, ED-SPED 468.

ED-CIFS 465 PROFESSIONAL YEAR III: TEACHING EXPERIENCE IN INTERMEDIATE ELEMENTARY EDUCATION (0-21-7)(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 (0-21-7)(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 (0-15-8)(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 (0-15-8)(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 (0-15-8)(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 (1-40-16)(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 (1-40-16)(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.

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

College of Social Sciences and Public Affairs

Public Affairs and Arts West, Room 123A Telephone 208 426-3928
e-mail: smccork@boisestate.edu Fax 208 426-4370

Information: Suzanne McCorkle, Ph.D.

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, 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 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, 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 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.

The Dispute Resolution Certificate program is housed in the Department of Public Policy and Administration, and managed by the Director of the Boise State Office of Conflict Management Services, who is assisted by an Academic Advisory Board.

Dispute Resolution Certificate	
Course Number and Title	**Credits**
COMM/SOC 390 Conflict Management	3
DISPUT 400 Basic Mediation Skills DISPUT 446 Mediation Competency Boards DISPUT 493/590 Internship DISPUT 494/594 Workshops in Area of Emphasis	3 1 2 3
Total	12
NOTE: The Dispute Resolution Certificate will be awarded following completion of an associate or baccalaureate degree.	

Course Offerings

See page 65 for a definition of the course-numbering system.

DISPUT—DISPUTE RESOLUTION COURSES

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 446 MEDIATION COMPETENCY BOARDS (0-0-1)(F/S). Competency-based testing is required by several mediation professional organizations. Students conduct case work and mediate a case from within their emphasis area before a panel of expert mediators. Students discuss issues related to mediation within their specialty area. (Pass/Fail.) PREREQ: PERM/PROGRAM DIRECTOR.

Earth Science Education—see Department of Geosciences

Early Childhood Studies—see Department of Special Education and Early Childhood Studies

Department of Economics

College of Business and Economics

Business Building, Room 311 Telephone 208 426-3351
http://ec.boisestate.edu/ Fax 208 426-2071
e-mail: econ@boisestate.edu

Chair and Associate Professor: Geoff Black. *Professors:* Loucks, Twight. *Associate Professor:* Mooney. *Assistant Professor:* Islam, Lowe. *Visiting Professor:* Donald Holley. *Special Lecturer:* John Church.

Degrees Offered

- B.A. and Minor in Economics
- B.A. in Economics, Social Studies, Secondary Education Emphasis
- B.B.A. in Business Economics

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; 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.

Degree Requirements

Those students planning on graduate study in economics should complete MATH 170 Calculus I, MATH 175 Calculus II, MATH 275 Multivariable and Vector Calculus, MATH 301 Linear Algebra, and MATH 333 Differential Equations with Matrix Theory.

Economics
Bachelor of Arts

Course Number and Title	Credits
ENGL 101 English Composition and either ENGL 102 or ENGL 112 English/Honors Composition	6
Area I—see page 45 for list of approved courses	
PHIL 101 Introduction to Philosophy	3
Area I core in literature	3
Area I core course in a third field	3
Area I core course in any field	3
Area II—see page 45 for list of approved courses	
ECON 201 Principles of Macroeconomics	3
ECON 202 Principles of Microeconomics	3
HIST 101, 102 History of Western Civilization **OR** HIST 201, 202 Problems of Western Civilization	6
Area II core course in a third field	3
Area III—see page 45 for list of approved courses	
Either MATH 143 College Algebra **AND** MATH 160 Survey of Calculus, **OR** MATH 147 Precalculus and MATH 170 Calculus I	7-10
Area III core course in a lab science	4
BUSSTAT 207, 208 Statistical Techniques for Decision Making **OR** MATH 361 Probability and Statistics	4-6

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Economics, Bachelor of Arts (continued)	
ECON 303 Intermediate Microeconomics	3
ECON 305 Intermediate Macroeconomics	3
ECON 311 History of Economic Thought	3
ECON 421 Quantitative Methods in Economics	3
ECON 422 Econometrics	3
Upper-division economics courses	12
Upper-division social science courses Selected from anthropology, geography, history, political science, psychology, and sociology.	15
Electives to total 128 credits Among these courses must be at least 6 credits in arts and humanities (Area I) or non-economics social sciences (Area II). These courses need not be chosen from the list of core courses. They may be either lower- or upper-division courses.	33-38
Total	128

Business Economics
Bachelor of Business Administration

Course Number and Title	Credits
ENGL 101 English Composition and either ENGL 102 or ENGL 112 English/Honors Composition	6
Area I—see page 45 for list of approved courses	
Area I core courses	6
Area II—see page 45 for list of approved courses	
ECON 201 Principles of Macroeconomics	3
ECON 202 Principles of Microeconomics	3
Area II core courses other than economics	6
Area III—see page 45 for list of approved courses	
Area III core course—(MATH 143 or MATH 147)	3-5
Area III core course—(MATH 160 or MATH 170)	4
Area III core course in a lab science	4
Nonbusiness courses: Must include courses in at least two of the three following disciplines: **Arts and Humanities** (art, foreign language, humanities, literature, music, philosophy, theatre arts); **Social Sciences** (anthropology, communication, criminal justice, ED-CIFS, geography, history, political science, psychology, social work, sociology); **Natural Sciences and Mathematics** (biological sciences, physical sciences, mathematics). No more than 3 credits may be fitness/kinesiology activity courses. **The total of Area III and nonbusiness electives must be at least 31 credits.**	18-20
ACCT 205 Introduction to Financial Accounting	3
ACCT 206 Introduction to Managerial Accounting	3
BUSCOM 201 Business Communication	3
BUSSTAT 207-208 Statistical Techniques for Decision Making I, II	6
ECON 303 Intermediate Microeconomics	3
ECON 305 Intermediate Macroeconomics	3
ECON 311 History of Economic Thought	3
ECON 421 Quantitative Methods in Economics	3
ECON 422 Econometrics	3
Upper-division economics electives	12
FINAN 303 Principles of Finance	3
GENBUS 202 The Legal Environment of Business	3
GENBUS 450 Business Policies	3
ITM 310 Business Intelligence	3
MGMT 301 Leadership Skills	3
MKTG 301 Principles of Marketing	3
SCM 345 Principles of Operations Management	3

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Business Economics (continued)	
*Electives to total 128 credits	10
Total	128

NOTES: *Please refer to the B.B.A., B.A., or B.S. requirements in Chapter 10 for explanation.
Upper-division majors are assumed to have basic database, spreadsheet, and word processing skills. Students lacking these skills should take ITM 104, 105, 106.

The Economics, Social Studies, Secondary Education Emphasis is designed to meet the revised state standards in Social Studies, provide students with multiple endorsements, and ensure upper- division coursework in the three disciplines most commonly taught at the secondary level. This multidisciplinary, professional degree entails a 30-hour major emphasis in Economics, 21 hours in Social Studies and government, and 12 hours in History. 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 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.

The social studies, secondary education emphasis programs are cooperative, multidisciplinary programs involving the departments of economics, history, political science, and sociology. Each of these departments, except political science, provides a major emphasis with the social studies, secondary education emphasis. Students choosing this emphasis must:

1. complete a minimum of 30 credits in economics.
2. complete a minimum of 21 credits in one of the above departments (other than economics) to satisfy graduation requirements. See the department listings for each of these departments for additional information.
3. complete six credits in U.S. history and three credits of American national government for certification requirements.

Economics, Social Studies, Secondary Education Emphasis Bachelor of Arts

Course Number and Title	Credits
ENGL 101 English Composition and either ENGL 102 or ENGL 112 English/Honors Composition	6
Area I—see page 45 for list of approved courses	
Area I core course in literature	3
Area I core course in a second field	3
Area I core course in a third field	3
Area I core course in any field	3
Area II	
ECON 201 Principles of Macroeconomics	3
ECON 202 Principles of Microeconomics	3
HIST 111, 112 U. S. History	6
POLS 101 American National Government	3
Area III—see page 45 for list of approved courses	
MATH 143 College Algebra	3
MATH 160 Survey of Calculus	4
Area III core course in a lab science	4
ACCT 205 Introduction to Financial Accounting	3
ECON 303 Intermediate Microeconomics	3
ECON 305 Intermediate Macroeconomics	3
Upper-division economics courses	18

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Economics, Social Studies, Secondary Education Emphasis (continued)	
ED-CIFS 201 Foundations of Education	3
*ED-CIFS 301 Teaching Experience I	1
*ED-CIFS 302 Learning and Instruction	4
*ED-CIFS 401 Professional Year—Teaching Experience II	2
*ED-CIFS 405 Teaching Secondary Social Studies	3
*ED-LTCY 444 Content Literacy for Secondary Students	3
*ED-SPED 350 Teaching Students with Exceptional Needs at the Secondary Level	3
*Teaching Experience III/IV	16
NOTE: *You must apply for admission to secondary teacher education in order to enroll in these upper-division education courses. Completion of all requirements for graduation with a secondary education option may require more than 128 credit hours. See "Department of Curriculum, Instruction, and Foundational Studies" for more information.	
EDTECH 202 Educational Technology – Classroom Applications	3
U. S. History	3
World History (Any non-U.S. History course) (Must complete 9 credits in U.S. History and 3 in World History)	3
POLS 102 State and Local Government	3
Comparative Government chosen from: POLS 311, 321, 324, 325, 329, 333	3
Social Studies Requirement (Social Studies State Certification requires that at least one course be completed in **each** of the following disciplines: Geography, Psychology, Sociology)	12
Total	133

Economics, Social Science, Secondary Education 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 courses	9
Total	21

NOTE: The minor is for students with an emphasis in social science, secondary education but with a major in a field other than economics.

Economics Minor Certification 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

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 courses	9
Total	21

Course Offerings

See page 65 for a definition of the course-numbering system.

ECON—ECONOMICS

Lower Division

ECON 201 PRINCIPLES OF MACROECONOMICS (3-0-3)(Area II). Economic 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)(Area II). An introduction to microeconomic analysis covering supply and demand, basic market structures, the operation of the price system, and the distribution of income. Provides an introduction to some applied areas of economics such as international, regional, 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). 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: ECON 201 and ECON 202.

ECON 303 INTERMEDIATE MICROECONOMICS (3-0-3). 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: ECON 202.

ECON 305 INTERMEDIATE MACROECONOMICS (3-0-3). 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: ECON 201.

ECON 310 (POLS 310) PUBLIC FINANCE (3-0-3)(S). A study of the role and impact of government on the functioning of the free enterprise economic system. The theory and rationale of government spending, taxing, and indebtedness will be examined, as well as the effects of government activity on allocation of resources and distribution of income. Attention will be paid to state and local problems. May be taken for either ECON or POLS credit, but not both. PREREQ: ECON 201 and ECON 202 or PERM/INST.

ECON 311 HISTORY OF ECONOMIC THOUGHT (3-0-3)(F). Study of the origin and development of economic theories that have influenced western civilization. Particular attention will be given to the period since 1750. PREREQ: ECON 201 and ECON 202.

ECON 315 GLOBAL ECONOMIC DEVELOPMENT (3-0-3)(F/S)(Alternate years)(Diversity). 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: ECON 201 and ECON 202.

ECON 317 INTERNATIONAL ECONOMICS (3-0-3)(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: 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: 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 201 and ECON 202 or PERM/INST.

ECON 325 RADICAL ECONOMICS (3-0-3)(F)(Diversity). 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: ECON 201 and ECON 202 or PERM/INST.

ECON 327 LABOR ECONOMICS (3-0-3)(F). Characteristics and structure of the U.S. labor force are examined and labor markets are analyzed to emphasize the micro- and macroeconomic factors affecting workplace decisions. Development of the U.S. industrial relations system is reviewed along with public policies, and these are contrasted with those of other western industrialized societies. PREREQ: ECON 201 and ECON 202.

ECON 333 NATURAL RESOURCE ECONOMICS (3-0-3)(F). 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)(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: ECON 201 and ECON 202 or PERM/INST.

ECON 421-421G QUANTITATIVE METHODS IN ECONOMICS (3-0-3)(F). The first of a two-semester sequence in quantitative economic analysis, this course emphasizes the application of mathematics to the construction of economic models. Topics will include equilibrium analysis, input-output analysis, comparative static analysis, optimization techniques, and dynamic analysis. The methodological issues surrounding the use of quantitative techniques in economics are also strongly emphasized. May be taken for graduate credit. PREREQ: ECON 201, ECON 202, MATH 160 or equivalent, and BUSSTAT 207.

ECON 422-422G ECONOMETRICS (3-0-3)(S). The second of a two-semester sequence in quantitative economic analysis. This course emphasizes the application of statistics to the construction, estimation, and evaluation of econometric models. Other related topics will include history and methodology of econometrics, forecasting, computer applications, and the use of econometrics in business and government. May be taken for graduate credit. PREREQ: ECON 421.

ECON 440-440G 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: ECON 201 and ECON 202 or PERM/INST.

ECON 480-480G 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 Schedule of Classes for specific selection offered. Seminar may be repeated. PREREQ: ECON 201 and ECON 202 or PERM/INST.

ECON 493 ECONOMICS INTERNSHIP (V-V-V). Opportunity to apply economic principles in a business, nonprofit, government, or academic setting. (Pass/Fail.) PREREQ: ECON 303, ECON 305, BUSSTAT 207, and PERM/INST.

Department of Educational Technology

College of Education

Education Building, Room 331 Telephone 208 426-1966
e-mail edtech@boisestate.edu FAX 208 426-1451

Chair and Associate Professor: Lisa Dawley. *Professor:* Pollard. *Assistant Professors:* Rice, Snelson, Tutty. *Adjunct Professors:* Worthington.

Degrees Offered

- M.E.T. Master of Educational Technology (See the *BSU Graduate Catalog*)
- M.S. Educational Technology (See the *BSU Graduate Catalog*)
- G.C. in Online Teaching (See the *BSU Graduate Catalog*)
- G.C. in School Technology Coordination (See the *BSU Graduate Catalog*)
- G.C. in Technology Integration Specialist (See the *BSU Graduate Catalog*)

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

See page 65 for a definition of the course-numbering system.

EDTECH—EDUCATIONAL TECHNOLOGY

Lower Division

EDTECH 202 EDUCATIONAL TECHNOLOGY: CLASSROOM APPLICATIONS (2-2-3). Basic word processing competency is recommended. The Internet as a research, instructional, and learning tool, databases, spreadsheets, presentation software, and word processing to create classroom appropriate-instructional/learning models are covered.

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 Technology, Room 240 Telephone 208 426-5788
http://coen.boisestate.edu/ece/home.asp Fax 208 426-2470

Chair and Professor: Thad Welch. *Associate Chair and Associate Professor:* Rafla. *Professor:* Baker, Schrader, Welch. *Associate Professors:* Ahmed-Zaid, Barney Smith, Browning, Campbell, Chiasson, Knowlton, Mitkova, Rafla. *Assistant Professors:* Han, Kuang, Loo, Smith. *Research Professor:* Yurke. *Research Assistant Professor:* Nandikolla. *Special Instructor:* Hay.

Degrees Offered

- B.S. and Minor in Electrical Engineering (B.S.E.E.)
- M.S. in Electrical Engineering (See the *BSU Graduate Catalog*)
- M.Engr. in Electrical Engineering (See the *BSU Graduate Catalog*)
- M.S. in Computer Engineering (See the *BSU Graduate Catalog*)
- M.Engr. in Computer Engineering (See the *BSU Graduate Catalog*)
- Ph.D. in Electrical and Computer Engineering (See the *BSU Graduate Catalog*)

Program Statement

Today's electrical engineer must be able to find solutions to new complex technical problems. He/she 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 environment. Boise State offers five major areas of concentration:

- semiconductor processing
- integrated circuit design
- communication/signal processing systems
- computer engineering
- power and energy systems

The many laboratory courses in the program provide students with significant hands-on experience which is attractive to potential employers.

Educational Objectives

Graduates of the electrical engineering program will be:

1. prepared with broad fundamentals rooted in the mathematics, science, and engineering, as well as contemporary skills in one or more select areas of electrical engineering needed primarily by high-tech companies and industries;
2. able to readily apply their extensive laboratory and design experience to solve new and challenging engineering problems using modern instrumentation and software tools;
3. able to communicate effectively and to function both independently and in group environments;
4. able to adapt to changing technology and human needs and will be prepared for continued professional development, advanced training and specialization, and/or graduate education;
5. able to function as responsible decision makers following professional codes of ethics and standards and to understand the broad impact of their profession in the global/societal business and environmental context.

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 B.S.E.E.	
Course Number and Title	**Credits**
ENGL 101-102 English Composition	6
Area I—see page 45 for list of approved courses	
Area I core course in one field	3
Area I core course in a second field	3
Area I core course in any field	3
Area II—see page 45 for list of approved courses	
COMM 101 Fundamentals of Speech Communication	3
Area II core course in a second field	3
Area II core course in any field	3
Area III	
Area III requirements are automatically met by specific courses included in the major requirements below.	
CHEM 111 General Chemistry	4
COMPSCI 125, 225 Introduction to Computer Science I and II	8
ECE 210 Introduction to Electric Circuits	3
ECE 225, 225L Circuit Analysis and Design and Lab	4
ECE 230, 230L Digital Systems and Lab	4
ECE 288 Sophomore Outcome Assessment	0
ECE 322, 322L Microelectronic Circuits and Lab	4
ECE 323 Semiconductor Devices	3
ECE 332, 332L Microprocessors and Lab	4
ECE 350, 350L Signals and Systems and Lab	4
ECE 360 System Modeling and Control	3
ECE 390 Electromagnetic Theory	3
ECE 480, 482 Senior Design Project I, II	6
ENGL 202 Technical Communication	3
ENGR 120 Introduction to Engineering	3
ENGR 245 Introduction to Materials Science and Engineering	3
MATH 170, 175 Calculus I and Calculus II	8
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	3-4
PHYS 211, 211L-212, 212L Physics I & II with Calculus and Lab	10
*Electrical Engineering electives	9
*Technical electives	6
Elective to total 128 hours	0-1
Total	128

Electrical Engineering Minor	
Course Number and Title	**Credits**
ECE 210 Introduction to Electric Circuits	3
ECE 225, 225L Circuit Analysis and Design Lab	4
ECE 230, 230L Digital Systems and Lab	4
Two of the following: ECE 322, 322L Microelectonic Circuits and Lab ECE 323 Semiconductor Devices ECE 332, 322L Microprocessors and Lab ECE 350, 350L Signals and Systems and Lab ECE 360 System Modeling and Control ECE 390 (PHYS 381) Electromagnetic Theory	6-8
Upper-division Electrical and Computer Engineering courses	3-4
Total	20-23

Course Offerings

See page 65 for a definition of the course-numbering system.

ENGR—ENGINEERING SCIENCE

See page 133 for the listing of ENGR courses.

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. PREREQ: ENGR 120. PRE/COREQ: MATH 333.

ECE 225 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.

ECE 225L CIRCUIT ANALYSIS AND DESIGN LAB (0-3-1)(F,S). Lab work to accompany. ECE 225 Circuit Analysis and Design. COREQ: ECE 225.

ECE 230 DIGITAL SYSTEMS (3-0-3)(F/S). Number systems, Boolean algebra, logic gates, Karnaugh mapping, combinatorial circuits, flip-flops, registers, counters, sequential state-machines. Construction of small design projects. PREREQ: COMPSCI 117 or COMPSCI 125.

ECE 230L DIGITAL SYSTEMS LAB (0-3-1)(F/S). Design, construction, and test of small digital logic circuits using TTL and CMOS gates, flip-flops, registers, counters, LED's. COREQ: ECE 230.

ECE 288 SOPHOMORE OUTCOME ASSESSMENT (0-0-0)(F,S). Competency-based examination to assess student ability in mathematics, basic sciences and engineering. Required for admission to upper-division ECE curriculum (Pass/Fail.) PREREQ: ECE 210, ECE 230, ENGR 245, MATH 333. COREQ: COMPSCI 225, ECE 225, MATH 275, PHYS 212.

Upper Division

ECE 310 (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 225.

ECE 322 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 225 and ECE 288.

ECE 322L 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 322.

ECE 323 SEMICONDUCTOR DEVICES (3-0-3)(S). 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: ENGR 245 and ECE 322.

ECE 323L 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 323.

ECE 332 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 332L MICROPROCESSORS LAB (0-3-1)(F/S). Lab work on microprocessors using a Macroassembler and a hardware experimentation kit. COREQ: ECE 332.

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 225, ECE 288, COREQ: MATH 360 or MATH 361, ECE 350L.

ECE 350L SIGNALS AND SYSTEMS LAB (0-3-1)(F/S). Lab work on signals and systems. COREQ: ECE 350.

ECE 360 (ME 360) SYSTEM MODELING AND CONTROL (3-0-3)(F/S). Modeling and simulation of physical systems. Transfer functions, block diagrams, and signal-flow graphs. State-variable analysis of linear systems and stability. Steady-state and transient specifications. Root locus technique. Design of feedback control systems. May be taken for ECE or ME credit, but not both. PREREQ: (ECE 225 and ECE 288) or (ENGR 220 and ENGR 240).

ECE 376 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 225 or PERM/INST.

ECE 390 (PHYS 381) 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. This course may be taken for either ECE or PHYS credit, but not both. PREREQ: MATH 275, MATH 333 and PHYS 212.

ECE 410 INTEGRATED CIRCUIT PHYSICAL DESIGN (3-0-3)(F). CMOS IC layout, modeling, parasitic capacitance extraction, SPICE simulation. Design of static and dynamic logic

gates, counters, registers, memories. Students will produce a verified layout file that can be used to build a set of photomasks for fabrication in either a foundry or in ECE 440. PREREQ: ECE 322.

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)(F/S). Design, layout, and simulation of CMOS analog integrated circuits. Current mirrors, voltage and current references, amplifiers, and op-amps. PREREQ: ECE 322, ECE 410.

ECE 413 RF IC DESIGN (3-0-3)(F/S). Design and characterization of RF-CMOS integrated circuits, including RF transceivers, oscillators, design approaches for handheld wireless systems, ultra-low-power circuit design techniques, on-wafer microwave measurement techniques. S parameter device evaluation methods, low-noise design and measurement, analysis of distortion in amplifiers, power amplifiers with application to wireless transmitter design, transmission lines and distributed circuit elements. The laboratory component will teach wafer-level microwave measurement techniques. PREREQ: ECE 410 or ECE 411.

ECE 418 MEMORY CIRCUIT DESIGN (3-0-3)(F)(Alternate years). Transistor level design of memory circuits. Memory technologies including DRAM, Flash, MRAM, Glass-based, and SRAM will be discussed. Practical introduction to the design of memory circuits. PREREQ: ECE 410.

ECE 420 ADVANCED DEVICE DESIGN AND SIMULATION (3-0-3)(F/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 323.

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/S). 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, COMPSCI 117 or COMPSCI 125.

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 (COMPSCI 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 COMPSCI or ECE credit, but not both. PREREQ: COMPSCI 117 or COMPSCI 125, and ECE 332 or PERM/INST.

ECE 433 EMBEDDED AND PORTABLE COMPUTING SYSTEMS (3-0-3)(F/S). 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 332.

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 332.

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 or PERM/INST.

ECE 440 INTRO TO INTEGRATED CIRCUIT AND MEMS PROCESSING (3-0-3)(F). Fundamentals of integrated circuit and micro-electromechanical systems (MEMS) 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 323 or PERM/INST. COREQ: ECE 440L.

ECE 440L INTRO TO INTEGRATED CIRCUIT AND MEMS PROCESSING LAB (0-3-1)(F). Semiconductor cleanroom practices; heavy lab safety; students will fabricate and test simple structures in lab; application of TCAD to practical problems. COREQ: ECE 440.

ECE 441 ADVANCED SILICON TECHNOLOGY (3-0-3)(S). Advanced models for unit processes such as diffusion, oxidation, ion implantation, thin film deposition, etching, rapid thermal processing, chemical mechanical polishing, and lithography. CMOS, bipolar, and micro-electromechanical systems (MEMS) process integration. Process and device modeling using TCAD. PREREQ: ECE 440.

ECE 442 PHOTOLITHOGRAPHY (3-0-3)(F/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. Use of TCAD lithography simulation software. COREQ: ECE 340.

ECE 442L PHOTOLITHOGRAPHY LAB (0-3-1)(F/S). Cleanroom lab experience accompanying ECE 442, utilizing a projection-printing wafer stepper, photoresist wafer track, SEM, and optical metrology equipment. Use of TCAD lithography simulation software. PREREQ: ECE 342. COREQ: ECE 442.

ECE 451 COMMUNICATION SYSTEMS (3-0-3)(F). 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)(F). 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/S). 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/S). 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 (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: COMPSCI 225, 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 COMPSCI 125, or PERM/INST.

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)(F). 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 225, ECE 390.

ECE 470L ELECTRIC MACHINES LAB (0-3-1)(F). Lab work on electric machines. COREQ: ECE 470.

ECE 471 ELECTRIC MACHINES AND DRIVES (3-0-3)(S). Advanced analysis of electric machines using reference frame transformations and space phasors. Induction machines and drives, direct-current and permanent-magnet machines and drives, synchronous machines and drives, control of single-phase and special machines. PREREQ: ECE 360, ECE 470.

ECE 471L ELECTRIC MACHINES AND DRIVES LAB (0-3-1)(S). Lab work on electric machines and drives. 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 225.

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, per-unit system, network calculations, load flow studies, power system operation. PREREQ: ECE 225, ECE 390.

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 480-482 SENIOR DESIGN PROJECT I, II (2-3-3)(F/S). 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 322, ECE 332, and ECE 350. PREREQ for ECE 482: ECE 480.

Engineering Science

Engineering and Technology Building, Room 101 Telephone 208 426-5983
http://coen.boisestate.edu/ Fax 208 426-2470

Coordinator: Dr. Janet Callahan

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 Departments in the College of Engineering.

Course Offerings

See page 65 for a definition of the course-numbering system.

ENGR—ENGINEERING SCIENCE

Lower Division

ENGR 100 ENERGY FOR SOCIETY (3-2-4)(Area III)(F/S). A general interest course having no prerequisite. 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.

ENGR 102 THE ETHICAL DIMENSIONS OF TECHNOLOGY (3-0-3)(F/S) (Area I)(Diversity). The ethical obligations of those who exercise technology on behalf of the larger society. Discusses the moral obligations of engineer's in their personal lives and professional practice. By focusing on the ethical dilemmas encountered by prominent engineers, this course introduces a discussion of virtue, duty, utility, discourse, and care ethics.

ENGR 110 ENGINEERING WITH PRE-CALCULUS (1-6-4)(F/S). An engineering course to be taken in conjunction with pre-calculus. Introduction to the engineering profession, fundamentals of the engineering process, engineering applications of algebra and trigonometry as well as time management study skills. COREQ: MATH 147.

ENGR 120 INTRODUCTION TO ENGINEERING (1-4-3)(F/S). Critical thinking design-oriented engineering experiences that introduce the professions of civil, electrical/computer, mechanical and materials science and engineering. Professional skill development including teamwork, computer based tools, oral and written communication, advisement. PREREQ: MATH 147 or MATH 143 and MATH 144.

ENGR 205 MECHANICS/STATICS (3-0-3)(F/S). Covers basic statics including equilibrium, analysis of trusses, frames and machines, centroids, static friction, moments of inertia. PREREQ: PHYS 111 and MATH 160 or MATH 170.

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 175 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.

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 through out a career in engineering or science to understand, analyze, and improve systems that incorporate electronic circuits or electrical machinery/equipment. Basic circuit theory, analog & digital electronic components/ circuits, communication circuits, power distribution circuits, and AC/DC machines. PREREQ: ENGR 120, and PHYS 212. COREQ: MATH 333.

ENGR 245 INTRODUCTION TO MATERIALS SCIENCE AND ENGINEERING (3-0-3)(F,S). 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.

Upper Division

ENGR 306 MECHANICS OF MATERIALS (3-0-3)(F/S). Elasticity, strength, and modes of failure of engineering materials, stress-strain theory for beams, shafts, and columns. PREREQ: ENGR 205 or ENGR 210.

ENGR 320 THERMODYNAMICS I (3-1-3)(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)(F/S). 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 385 SCIENCE METHODS THROUGH ENGINEERING (2-4-3)(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 400 RESEARCH METHODS (1-0-1)(F/S). Defining a thesis or other research project, library and internet searching techniques, completing a literature review, preparing a research or project plan, research methods, preparing the thesis proposal, preparing the final thesis or research project document, and preparing a successful oral presentation. PREREQ: PERM/INST.

Department of English

College of Arts and Sciences

Liberal Arts Building, Room 228 Telephone 208 426-3426
http://english.boisestate.edu/ Fax 208 426-4373
e-mail: english@boisestate.edu

Chair and Associate Professor: Michelle Payne.
Associate Chair and Associate Professor: Devan Cook.
Director of M.A. in English and Assistant Professor: Matt Hansen.
Director of Technical Communication and Professor: Mike Markel.
Director of First-Year Writing Program and Assistant Professor: Heidi Estrem.
Assoc. Director of First-Year Writing Program and Asst. Professor: Tom Peele.
Director of Creative Writing and Associate Professor: Mitch Wieland.
Director of Writing Center and Assistant Professor: Mike Mattison.
Professors: Dayley, Lojek, Martin, Trusky, Widmayer, Wilhelm, Zaerr.
Associate Professors: Battalio, Corless-Smith, Munger, O'Connor, Olsen-Smith, Penry, Robbins, Ryder, R. Sanderson, Uehling, Wieland. *Assistant Professors:* Campbell, Hillard, Hindrichs, McGuire, Newman, Ramirez-Dhoore, Shuck, Udall, Willerton.

Degrees Offered

- B.A. in English, Linguistics Emphasis
- B.A. and Minor in English, Literature Emphasis
- B.A. in English Teaching
- B.A. in English, Technical Communication Emphasis
- B.A. in English, Writing Emphasis
- M.A. in English, English Education (See the *BSU Graduate Catalog.*)
- M.A. in English, Literature (See the *BSU Graduate Catalog.*)
- M.A. in Technical Communication (See the *BSU Graduate Catalog.*)
- M.F.A. in Creative Writing (See the *BSU Graduate Catalog.*)
- Certificate and Graduate 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 school districts around the country. The Writing Emphasis, with components in poetry, fiction, non-fiction prose, and courses in book arts, give students an opportunity to write, design, edit, and publish their own work; it prepares students for work in the fiction, nonfiction, and poetry markets, and for work in the many professions that require strong writing skills. 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.

Degree Requirements

**English, Linguistics Emphasis
Bachelor of Arts**

Course Number and Title	Credits
ENGL 101 English Composition and either ENGL 102 or ENGL 112 English/Honors Composition	6
Area I—see page 45 for list of approved courses	
Area I core course in literature	3
Area I core course in a second field	3
Area I core course in a third field	3
Area I core course in any field	3
Area II—see page 45 for list of approved courses	
ANTH 102 Cultural Anthropology	3
Area II core course in history	3
Area II core course in a third field	3
Area II core course in any field	3
Area III—see page 45 for list of approved courses	
Area III core course in mathematics	3-5
Area III core course in a second field	4
Area III core course in any field	4
ENGL 198 Intro to English Studies ENGL 275 Intro to Literary Studies ENGL 498 Senior Seminar	1 3 3
LING 305 Introduction to Language Studies	3
Linguistics courses in addition to LING 305	18
Upper-division literature courses	3
Upper-division electives (subject to prior approval by the Department of English) that are relevant to area of interest, to be chosen from English, linguistics, foreign language (classical or modern), philosophy, psychology, history, communication and anthropology.	6
One year of a foreign language	6-8
A second year of foreign language or one year of a second foreign language	6-8
Upper-division electives to total 40 credits	7
Electives to total 128 credits	25-31
Total	128

All courses used toward the English degree must be passed with a grade of C or higher.

English, Literature Emphasis
Bachelor of Arts

Course Number and Title	Credits
ENGL 101 English Composition and either ENGL 102 or ENGL 112 English/Honors Composition	6
Area I—see page 45 for list of approved courses	
ENGL 267 Survey of British Literature	3
Area I core course in a second field	3
Area I core course in a third field	3
Area I core course in any field	3
Area II—see page 45 for list of approved courses	
Area II core course in history	3
Area II core course in a second field	3
Area II core course in a third field	3
Area II core course in any field	3
Area III—see page 45 for list of approved courses	
Area III core course in mathematics	3-5
Area III core course in a second field	4
Area III core course in any field	4
ENGL 198 Intro to English Studies	1
ENGL 268 Survey of British Literature	3
ENGL 275 Intro to Literary Studies	3
ENGL 393 History of Literary Criticism	3
ENGL 498 Senior Seminar	3
Completion of an additional 27 credits in English or linguistics, excluding ENGL 101-102, or ENGL 112 a. Of these credits, 24 must be upper division b. Of the upper-division credits, 12 must be in pre-Twentieth century literature No more than 9 credits may be in English or linguistics special topics courses.	27
LING 305 Introduction to Linguistics	3
Upper-division electives to total 40 credits	7
Electives to total 128 credits	35-37
Total	128
NOTE: 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 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 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
Bachelor of Arts

Course Number and Title	Credits
ENGL 101 English Composition and either ENGL 102 or ENGL 112 English/Honors Composition	6
Area I—see page 45 for list of approved courses	
ENGL 267, 268, 277, or 278	6
Area I core course in a second field	3
Area I core course in a third field	3
Area II—see page 45 for list of approved courses	
COMM 101/112 Communication course	3
ED-CIFS 201 Foundations of Education	3
Area II core course in history	3
Area II core course in any field	3
Area III—see page 45 for list of approved courses	
Area III core course in mathematics	3-5
Area III core course in a second field	4
Area III core course in any field	4
To be approved for student teaching in English, students must complete: a. all required courses. In some cases the department may approve enrollment in no more than two courses concurrent with student teaching. b. at least one American literature and one British literature course. c. a speech communication class. The department recommends COMM 101 or COMM 112 which will also give partial fulfillment of Area II core. d. a 2.50 cumulative grade point average and a 2.50 grade point average in the major. e. Idaho certification requirements.	
ED-CIFS 201 Foundations of Education	3
*ED-CIFS 301 Teaching Experience I	1
*ED-CIFS 302 Learning and Instruction	4
*ED-CIFS 401 Professional Year—Teaching Experience II	2
*ED-LTCY 444 Content Literacy for Secondary Students	3
*ED-SPED 350 Teaching Students with Exceptional Needs at the Secondary Level	3
*Teaching Experience III/IV NOTE: *You must apply for admission to secondary teacher education in order to enroll in these upper-division education courses. Completion of all requirements for graduation with a secondary education option may require more than 128 credit hours. See "Department of Curriculum, Instruction, and Foundational Studies" for more information.	16
EDTECH 202 Educational Technology – Classroom Applications	3
ENGL 198 Intro to English Studies	1
ENGL 275 Intro to Literary Studies	3
ENGL 301 Teaching English Composition	3
ENGL 381 English Teaching: Writing, Reading, and Language	3
ENGL 481 Literature for Use in Junior and Senior High School	3
Writing courses 200-level or higher	6
LING 305 Introduction to Language Studies	3
Linguistics course	3
English and linguistics course credits (Of these 18, 15 must be upper division and no more than 3 credits may be internship)	18
Electives to total 128 credits	10-12
Total	128
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
ENGL 101-102 English Composition ENGL 102 or ENGL 112 English/Honors Composition	6
Area I—see page 45 for list of approved courses	
Area I core course in literature	3
Area I core course in a second field	3
Area I core course in a third field	3
Area I core course in any field	3
Area II—see page 45 for list of approved courses	
Area II core course in history	3
ECON 201 Principles of Macroeconomics	3
Area II core course in a third field	3
Area II core course in any field	3
Area III—see page 45 for list of approved courses	
Area III core course in mathematics	3-5
Area III core course in a second field	4
Area III core course in any field	4
ENGL 198 Intro to English Studies	1
ENGL 302 Technical Rhetoric	3
ENGL 304 Argument	3
ENGL 312 Technical Communication Applications	3
ENGL 403 Technical Editing	3
ENGL 405 Print Document Production	3
ENGL 415 On-screen Document Production	3
ENGL 493 Internship	6
ENGL 499 Senior Seminar in Technical Communication	3
ITM 104 Operating Systems and Word Processing Topics	1
ITM 105 Spreadsheet Topics	1
ITM 106 Database Topics	1
ITM 310 Business Intelligence	3
Art and communication courses chosen from: ART 107, ART 108, COMM 101, COMM 302, COMM 304, COMM 307, COMM 321, COMM 361, COMM 390, COMM 478, COMM 481, COMM 483, and COMM 484	6
LING 305 Introduction to Language Studies	3
Accounting, general business, management, and sociology courses chosen from ACCT 205, ACCT 206, GENBUS 441, MGMT 301, MGMT 401, MGMT 405, and SOC 487	3
Upper-division electives to total 40 credits	0-7
Electives to total 128 credits	35-40
Total	128
All courses used toward the English degree must be passed with a grade of C or higher.	

English, Writing Emphasis Bachelor of Arts

Course Number and Title	Credits
ENGL 101 English Composition and either ENGL 102 or ENGL 112 English/Honors Composition	6
Area I—see page 45 for list of approved courses	
Area I core course in literature	3
Area I core course in a second field	3
Area I core course in a third field	3
Area I core course in any field	3
Area II—see page 45 for list of approved courses	
Area II core course in history	3
Area II core course in a second field	3
Area II core course in a third field	3
Area II core course in any field	3
Area III—see page 45 for list of approved courses	
Area III core course in mathematics	3-5
Area III core course in a second field	4
Area III core course in any field	4
ENGL 198 Intro to English Studies	1
ENGL 201 Nonfiction Writing	3
ENGL 202 Technical Communication **OR** ENGL 302 Technical Rhetoric (Students take ENGL 302 if they plan to go on to ENGL 312 Technical Communication Applications.)	3
ENGL 205, 206 Creative Writing	3
ENGL 275 Intro to Literary Studies	3
ENGL 493 Writing Internship	3
ENGL 498 Senior Seminar	3
LING 305 Introduction to Language Studies	3
Additional writing courses 200-level or above (9 upper-division credits) May include courses in rhetoric, tutoring and teaching writing, and technical communication. May also include feature writing, critical writing. playwriting, and other writing courses offered outside the Department of English if writing is clearly the central subject of the course (prior approval of the Department of English is required). Does not include writing-intensive courses.	12
Upper-division literature courses	9
Additional upper-division English or linguistics courses	6
Upper-division electives to total 40 credits	7
Electives to total 128 credits	29-31
Total	128
All courses used toward the English degree must be passed with a grade of C or higher.	

English Minor

Course Number and Title	Credits
ENGL 267 or 268 Survey of British Literature	3
ENGL 275 Introduction to Literary Studies	3
ENGL 277 or 278 Survey of American Literature	3
Linguistics course	3
Upper-division English and/or 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 Minor Certification Endorsement	
Course Number and Title	**Credits**
ENGL 267 or 268 Survey of British Literature ENGL 275 Introduction to Literary Studies ENGL 277 or 278 Survey of American Literature ENGL 301 Teaching English Composition ENGL 481 Literature for Use in Junior and Senior High School	3 3 3 3 3
LING 305 Introduction to Language Studies	3
Writing courses numbered 200 or higher	6
Total	24
All courses used toward the English Minor Certification Endorsement must be passed with a grade of C or higher.	

Combined Major, Communication and English
The combined major is designed for students interested in jobs in business, industry, or mass communication. It offers an opportunity to combine courses in complementary subject areas. Students select an emphasis in journalism or in communication under the combined major. See the Department of Communication listing in this catalog for specific requirements.

Technical Communication

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 ENGL 312 Technical Communication Applications ENGL 403 Technical Editing	3 3 3
Two of the following courses: ART 156 Architectural Graphics I COMM 221 Interpersonal Communication COMM 231 Public Speaking COMM 307 Interviewing COMM 356 Communication in Small Groups COMM 361 Organizational Communication COMM 478 Public Relations Techniques COMM 481 Studies in Interpersonal Communication GENBUS 360 Business Ethics and Social Responsibility ITM 310 Business Intelligence LING 305 Introduction to Language Studies MGMT 401 Organizational Behavior MGMT 405 Management of Continuous Learning MKTG 306 Marketing Communication SOC 390 Conflict Management SOC 487 Organizational Theory and Bureaucratic Structure	5-6
Total	14-15

English Proficiency Requirement

Because the ability to read, write, and think critically are characteristics of an educated person, Boise State University requires students to demonstrate proficiency in English. All students seeking a baccalaureate degree — and, with few exceptions, those seeking an associate degree — must either complete a certain number of credits in English composition or demonstrate English proficiency in one of the ways described in Chapter 10—Obtaining a Degree at Boise State University.

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 65 for a definition of the course-numbering system.

ENGL—ENGLISH

Lower Division

ENGL 90 DEVELOPMENTAL WRITING (3-0-0). Introduction to college writing with attention to fluency, development, organization, revision, and editing/proofreading. Required if writing sample or placement tests demonstrate need. Also for basic review.

ENGL 101 ENGLISH COMPOSITION (3-0-3)(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: Any one of the following: (1) ACT score of 18-24; (2) SAT score of 450-560; (3) COMPASS exam score of 68-94; (4) P (Pass) in ENGL 90; (5) P (Pass) in ENGL 123.

ENGL 102 ENGLISH COMPOSITION (3-0-3)(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: Any one of the following: (1) Grade of C- or above in ENGL 101 (2) ACT score of 25-30; (3) SAT score of 570-690; (4) COMPASS exam score of 95-99.

ENGL 112 HONORS COMPOSITION (3-0-3)(Core). Provides students with practice in writing as an act of inquiry. Students will develop writing projects that influence or explore some aspect of community, investigating its languages and conventions, and sharing their findings or discoveries. Emphasizes critical reading, research methodologies, rhetorical principles, persuasion, genre, and advanced writing techniques. PREREQ: Admission to the Honors College and SAT or ACT score of 80th percentile or above; or PERM/CHAIR.

ENGL 121 ACADEMIC ENGLISH WRITING FOR SPEAKERS OF OTHER LANGUAGES, LEVEL I (3-0-3)(F/S). 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). 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). 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). Introduction to the disciplines that make up English studies: creative writing, English education, linguistics, literature, rhetoric and composition, and technical communication. Topics include the principles, theoretical underpinnings, methods, and practical applications of English studies. (Pass/Fail.)

ENGL 201 NONFICTION WRITING (3-0-3)(F,S). Further development of skills and strategies learned in ENGL 102. Student will study and write nonfiction prose, particularly research and persuasive writing. Writing practice will stress the writer's awareness of his or her own style and the manipulation of stylistic elements. PREREQ: ENGL 102.

ENGL 202 TECHNICAL COMMUNICATION (3-0-3)(F/S). An overview of the principles and applications of technical communication for those students who expect to write on the job. Assignments are related to each student's background and field of interest. Topics include letters, instructions, reports, and technical presentations, as well as audience analysis, the writing process, graphics, document design, and the ethics of technical communication. PREREQ: ENGL 102 or PERM/INST.

ENGL 204 WRITING CREATIVE NONFICTION (3-0-3)(F/S). 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). Based on evaluation of student's original work. May be repeated for a total of nine credit hours.

ENGL 206 FICTION WRITING (3-0-3)(S). Introduction to fiction writing with a concentration on descriptive technique. Readings in the short story. May be repeated for a total of nine credit hours.

ENGL 211 THE BIBLE AS LITERATURE (3-0-3)(S). 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.

ENGL 213 AFRICAN-AMERICAN LITERATURE (3-0-3)(S)(Diversity). The African-American experience reflected in the development of African-American literature. The course relates African-American writing to its social and cultural conditions, exploring recurrent, characteristic themes, techniques, and genres from slavery to present. Emphasis on such writers as Frederick Douglass, Langston Hughes, Richard Wright, Zora Neale Hurston, Alice Walker, and contemporaries. PREREQ: ENGL 102.

ENGL 216 CULTURAL EXCHANGE IN TRANSNATIONAL LITERATURES (3-0-3)(F/S)(Area I)(Diversity). 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.

ENGL 217 MYTHOLOGY (3-0-3)(F). Mythologies and mythological concepts having most influence on Western civilization. Emphasis on Greek, Norse, and Judeo-Christian mythologies and their relation to religion, literature, art, and modern psychology. PREREQ: ENGL 102.

ENGL 257 WESTERN WORLD LITERATURE (3-0-3)(F)(Area I). Introduction to writings of the great minds in the Western tradition which have shaped our cultural and literary past and present. Reading includes selections from ancient Greece, Imperial Rome, and medieval and renaissance Europe. PREREQ: ENGL 102.

ENGL 258 WESTERN WORLD LITERATURE (3-0-3)(S)(Area I). An introduction to the Western literary tradition as it has developed during the last four centuries. Attention will be paid to the way in which the older values and attitudes are challenged by the new spirit of skepticism and rebellion. PREREQ: ENGL 102.

ENGL 267 SURVEY OF BRITISH LITERATURE TO 1790 (3-0-3)(F)(Area I). Examines the dominant cultural movements and literary forms in England from the middle ages through the 18th century. PREREQ: ENGL 102.

ENGL 268 SURVEY OF BRITISH LITERATURE: 1790 TO PRESENT (3-0-3)(S)(Area I). The reflection of social and cultural changes in the poetry and prose of Romantic, Victorian, and modern England. PREREQ: ENGL 102.

ENGL 275 INTRODUCTION TO LITERARY STUDIES (3-0-3)(F/S). Preparation for upper-division literature courses. Emphasizes literary critical thinking and writing. Introduces principal types of literature, central questions in literary studies, ways of conducting literary research, and writing literary papers. PREREQ: ENGL 102 or PERM/INST.

ENGL 277 SURVEY OF AMERICAN LITERATURE: BEGINNINGS TO CIVIL WAR (3-0-3)(F/S)(Area I). Survey of selected texts from the breadth of traditions in early American literature, with its often contradictory, competing ideals and identities. Emphasizing critical reading and written analysis, the course traces the emergence of American literary thought and culture from the period of European contact up to the Civil War. PREREQ: ENGL 102.

ENGL 278 SURVEY OF AMERICAN LITERATURE: CIVIL WAR TO PRESENT (3-0-3)(F/S)(Area I). 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.

Upper Division

ENGL 301 TEACHING ENGLISH COMPOSITION (3-0-3)(F,S). Theories and techniques for teaching English composition in secondary schools, with emphasis on individualization of instruction, student-centered activity, creativity, and relationships between composition and other aspects of English. Intended for students with a teaching option and a major or minor in English, and for teachers. PREREQ: Upper-division standing or PERM/INST. COREQ: ENGL 481.

ENGL 302 TECHNICAL RHETORIC (3-0-3)(F/S). 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 and Technical Communication Emphasis, or PERM/INST.

ENGL 303 THEORY AND PRACTICE OF TUTORING WRITING (3-0-3)(F). Preparation for tutoring for the Boise State Writing Center. Emphasis on writing processes, interpersonal dynamics, questioning techniques, evaluation of writing-in-progress, and rhetorical theory as it pertains to tutoring. PREREQ: ENGL 102 and PERM/INST. COREQ: ENGL 493: Internship in Writing Center.

ENGL 304 ARGUMENT (3-0-3)(F/S). Study of various kinds of arguments (causal, proposal, definition) used in academic and civic writing. Provides an overview of the history and terminology of argument, and allows students to workshop their own argumentative writing. PREREQ: ENGL 102 or PERM/INST.

ENGL 305 INTERMEDIATE POETRY WRITING (3-0-3)(F/S). 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). 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 309 INTRODUCTION TO BOOK ARTS (3-0-3)(F/S). The course introduces students to the study of basic history of books, including papermaking, typography, printing, binding, book decoration, and contemporary bookworks. Students produce a classroom edition of their own text and/or visual material.

ENGL 312 TECHNICAL COMMUNICATION APPLICATIONS (3-0-3)(F/S). 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 Web sites. PREREQ: ENGL 302 or PERM/INST.

ENGL 324 TOPICS IN RHETORIC AND COMPOSITION (3-0-3)(F/S). 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 PERM/INST.

ENGL 336 NINETEENTH-CENTURY CONTINENTAL LITERATURE (3-0-3)(S)(Alternate years). Major European writers in the 19th century in translation. Reading maintains a chronological approach stressing the relationship of the literature to the socioeconomic and political conditions of the times. Works of Goethe, Stendahl, Flaubert, Nietzsche, Schopenhauer, Dostoevsky, and Tolstoy are included. PREREQ: ENGL 275 or PERM/INST.

ENGL 338 TWENTIETH-CENTURY CONTINENTAL LITERATURE (3-0-3)(S)(Alternate years). Twentieth-century philosophical trends and cultural themes are emphasized in the reading. Includes works by Mann, Mauriac, Kafka, Hesse, Grass, and Solzhenitzyn, which examine mythological, existential, religious, and political themes in relation to contemporary human values. PREREQ: ENGL 275 or PERM/INST.

ENGL 340 CHAUCER (3-0-3)(F)(Alternate years). Emphasis on The Canterbury Tales and Troilus and Criseyde. Also representative minor works. PREREQ: ENGL 275 or PERM/INST.

ENGL 341 MEDIEVAL NARRATIVE (3-0-3)(F/S)(Alternate years). Representative English and continental narrative literature, including such works as Beowulf, Sir Gawain and the Green Knight, Arthurian romances by Chretien de Troyes and Marie de France, The Song of Roland, and Dante's Divine Comedy. PREREQ: ENGL 275 or PERM/INST.

ENGL 342 MEDIEVAL DRAMA (3-0-3)(F/S)(Alternate years). An investigation of the development of theater in Europe from the early Middle Ages through the early Renaissance. Readings will provide a survey of representative works, but the focus will be on the English Corpus Christi plays. Production of one of these plays will be a part of the course. PREREQ: ENGL 275 or PERM/INST.

ENGL 343 MEDIEVAL ARTHURIAN LITERATURE (3-0-3)(F/S)(Alternate years). The origins of the Arthurian legend. Beginning with the earliest references to King Arthur, the material traces the development of the tales through Geoffrey of Monmouth, Chretien de Troyes, the Welsh Mabinogion, miscellaneous isolated tales, and Thomas Malory's Le Morte d'Arthur. PREREQ: ENGL 275 or PERM/INST.

ENGL 345 SHAKESPEARE: TRAGEDIES AND HISTORIES (3-0-3)(F/S). A selection of the tragic plays including Romeo and Juliet, Hamlet, and King Lear and the best plays concerning English history. PREREQ: ENGL 275 or PERM/INST.

ENGL 346 SHAKESPEARE: COMEDIES AND ROMANCES (3-0-3)(F/S). Representative plays such as The Taming of the Shrew, A Midsummer Night's Dream, As You Like It, Twelfth Night, and the Tempest. PREREQ: ENGL 275 or PERM/INST.

ENGL 348 BRITISH RENAISSANCE POETRY AND PROSE (3-0-3)(F/S)(Alternate years). A study of the poetry and prose of the English Renaissance, including works by More, Marlowe, Spenser, Shakespeare, and Bacon. PREREQ: ENGL 275 or PERM/INST.

ENGL 349 ELIZABETHAN AND JACOBEAN DRAMA (3-0-3)(F/S)(Alternate years). Tragic and comic plays by Shakespeare's contemporaries such as Kyd, Marlowe, Jonson, Tourneur, Chapman, Middleton, Marston, Webster, and Ford. PREREQ: ENGL 275 or PERM/INST.

ENGL 350 SEVENTEENTH CENTURY POETRY AND PROSE (3-0-3)(S)(Alternate years). The works of English authors such as Francis Bacon, Ben Jonson, John Donne, George Herbert, Andrew Marvell, Robert Burton, and Thomas Browne, who flourished in the first 60 years of the 17th century. The social, philosophical, and scientific background of this period. PREREQ: ENGL 275 or PERM/INST.

ENGL 351 MILTON (3-0-3)(S)(Alternate years). 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 356 BRITISH DRAMA: THE RESTORATION TO THE DECADENT MOVEMENT (3-0-3)(F/S)(Alternate years). A study of Restoration tragedy, the comedy of manners, sentimental comedy, and comic opera. Playwrights read include Wycherley, Dryden, Etherege, Congreve, Gay, Sheridan, Goldsmith, Gilbert and Sullivan, and Wilde. PREREQ: ENGL 275 or PERM/CHAIR.

ENGL 358 RESTORATION AND EIGHTEENTH CENTURY POETRY AND PROSE (3-0-3)(F/S)(Alternate years). A study of literary currents in the British Enlightenment from satiric to sentimental, reasonable to fanciful. Emphasis: Dryden, Pope, Swift, and Johnson, plus works by Addison and Steele, Thomson, Boswell, Gray, Gibbon, Burke, and others. PREREQ: ENGL 275 or PERM/INST.

ENGL 359 BRITISH NOVEL: BEGINNINGS THROUGH AUSTEN (3-0-3)(F). An investigation of the novel tracing its roots and exploring the work of Defoe, Richardson, Fielding,

Smollett, Sterne, Austen, and others. The emergence of the most popular genre of literature helps us to understand how fiction reflects our assumption about the world around us. PREREQ: ENGL 275 or PERM/INST.

ENGL 360 BRITISH ROMANTIC POETRY AND PROSE (3-0-3)(F). Readings in Blake, Wordsworth, Coleridge, Byron, Shelley, Keats, and others. These Romantics provide freshly imagined patterns of emotional and intellectual response to nature and our place in it. PREREQ: ENGL 275 or PERM/INST.

ENGL 365 VICTORIAN POETRY (3-0-3)(S)(Alternate years). Readings in Tennyson, Browning, Arnold, and others. Their poems are the sometimes sane, sometimes shocking results of trying to find and keep artistic and moral hope amidst vital but unhealthy times. PREREQ: ENGL 275 or PERM/INST.

ENGL 366 VICTORIAN NON-FICTION PROSE (3-0-3)(F/S)(Alternate Years). Examines non-fiction prose writings from newspapers, journals, and books, on such issues as the rights of women and working classes, labor and factory legislation, health and sanitation, education, the arts, travel, politics, and empire. Includes authors such as Thomas Carlyle, Frances Power Cobbe, George Eliot, Harriet Martineau, John Stuart Mill, John Henry Newman, John Ruskin, Edith Simcox. PREREQ: ENGL 275 or PERM/INST.

ENGL 369 BRITISH NOVEL: SCOTT THROUGH HARDY (3-0-3)(S). An investigation of the development of the English novel during the nineteenth century with particular attention to the impact of Victorian thought on the genre and to the emergence of the modern novel. Includes Scott, Dickens, Gaskell, Thackeray, the Brontes, Trollope, Eliot, and Hardy. PREREQ: ENGL 275 or PERM/INST.

ENGL 375 EARLY AMERICAN LITERATURE (3-0-3)(F/S). American literary origins from the period of Discovery to the Early National period, addressing European exploration and colonization of the New World, the American Revolution, and the New Republic. May include such writers as Alvar Nuñez Cabeza de Vaca, Captain John Smith, Anne Bradstreet, Benjamin Franklin, Thomas Jefferson, Hannah Foster, and Washington Irving. PREREQ: ENGL 275 or PERM/INST.

ENGL 376 NINETEENTH-CENTURY AMERICAN NONFICTION (3-0-3)(F/S). Studies some of our nation's most central texts selected from the expression prompted by slavery, the Civil War, westward expansion, and rapid social and intellectual changes. Includes writers such as John Burroughs, George Catlin, Mary Boykin Chesnutt, Frederick Douglass, Charlotte Perkins Gilman, Ulysses S. Grant, and Harriet Jacobs. PREREQ: ENGL 275 or PERM/INST.

ENGL 377 AMERICAN RENAISSANCE (3-0-3)(F/S). A study in the second generation of the American literary experience when such leading writers as Hawthorne, Melville, Emerson, Thoreau, Poe, and Whitman, acting under the varied impulses of Puritanism, Romanticism, and idealism, created the first universal vision of human experience to appear in American literature. PREREQ: ENGL 275 or PERM/INST.

ENGL 378 AMERICAN REALISM (3-0-3)(F/S). American literature from the Civil War to World War I. Mark Twain, Stephen Crane, Henry James, W. D. Howells, Kate Chopin, and fellow Realists wrote about the average person in the light of common day. Their works show how American writers were increasingly influenced by science, business, and art. PREREQ: ENGL 275 or PERM/INST.

ENGL 381 ENGLISH TEACHING: WRITING, READING, AND LANGUAGE (3-0-3)(F/S). Theories and methods of teaching secondary school English language arts, instructional planning, and integration of composition, literature, and language. PREREQ: ENGL 275. COREQ: ED-CIFS 401 and ED-LTCY 444.

ENGL 384 LITERATURE OF THE AMERICAN WEST (3-0-3)(F/S). The literary merits of works by representative Western writers such as Wallace Stegner, Owen Wister, H.L. Davis, John Steinbeck, and Willa Cather. Also discussed are regional values and Western types such as the mountain man, the cowboy, and the pioneer. PREREQ: ENGL 275 or PERM/INST.

ENGL 386 TWENTIETH-CENTURY BRITISH FICTION (3-0-3)(F/S). This course studies the varied literary movements in British fiction against the background of British historical and cultural change in the 20th century. Representative writers will include such names as Joseph Conrad, Ford Madox Ford, E. M. Forster, Virginia Woolf, James Joyce, D. H. Lawrence, Joyce Cary, Doris Lessing, William Golding, Fay Weldon, Wole Soyinka, Peter Carey, Martin Amis, Jeanette Winterson, Anita Brookner, and Margaret Forster. PREREQ: ENGL 275 or PERM/INST.

ENGL 387 TWENTIETH-CENTURY AMERICAN FICTION (3-0-3)(F/S). A comprehensive investigation of the form and modes of modern American thought and literary directions through a study of representative fiction of the 20th century. Readings will be selected from such American writers as Willa Cather, F. Scott Fitzgerald, Richard Wright, William Faulkner, Ernest Hemingway, Flannery O'Connor, Saul Bellow, Ishmael Reed, Leslie Marmon Silko, and Paul Auster. PREREQ: ENGL 275 or PERM/INST.

ENGL 389 TWENTIETH-CENTURY DRAMA WRITTEN IN ENGLISH (3-0-3)(F/S). A study of plays, theory, and dramatic practice as they developed in the twentieth century, including such playwrights as G. B. Shaw, J. M. Synge, Sean O'Casey, Arthur Miller, Eugene O'Neill, Samuel Beckett, Lorraine Hansberry, Tom Stoppard, Peter Shaffer, Caryl Churchill, Athol Fugard, August Wilson, and Wole Soyinka. PREREQ: ENGL 275 or PERM/INST.

ENGL 390 FOLKLORE (3-0-3)(F/S). Study of what folklore is, its written and oral traditions, and its different genres. PREREQ: ENGL 102.

ENGL 391 NORTH AMERICAN INDIAN FOLKLORE AND LITERATURE (3-0-3)(F/S). An examination of traditional Native American world views and belief systems as reflected in oral narratives and written literature. Study topics include aspects of cosmology, religious life, seasonal round, and life cycle as presented in the oral redactions of specific tribal/culture areas and in the literary poetry and prose of major creative writers. PREREQ: ENGL 275 or PERM/INST.

ENGL 393 HISTORY OF LITERARY CRITICISM (3-0-3)(F). A survey of critical approaches to literature from Plato to the twentieth century. PREREQ: ENGL 275 or PERM/INST.

ENGL 401-401G ADVANCED NONFICTION WRITING (3-0-3)(F/S). 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). 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 405-405G PRINT DOCUMENT PRODUCTION (3-0-3)(F/S). 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 406-406G ADVANCED POETRY WRITING (3-0-3)(F/S). 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 407-407G ADVANCED FICTION WRITING (3-0-3)(F/S). 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 410 TWENTIETH-CENTURY AMERICAN NONFICTION (3-0-3)(F/S). American nonfiction prose from 1900 to present, including autobiography, biography, history, journalism, social and cultural criticism, science and nature writing. Typical authors include W. E. B. Dubois, H. L. Mencken, James Agee, Norman Mailer, Joan Didion, John McPhee, Annie Dillard, Tom Wolfe, Truman Capote, Leslie Marmon Silko, Maxine Hong Kingston, Loren Eiseley, and Wallace Stegner. PREREQ: ENGL 275 or PERM/INST.

ENGL 412 WOMEN WRITERS (3-0-3)(F/S). Literature by English speaking women, with special attention to cultural contexts, the themes and methods used by women writers, and how women writers have created their own tradition. The course may focus on writings of a particular period. PREREQ: ENGL 275 or PERM/INST.

ENGL 413 THE NEW LITERATURES IN ENGLISH (3-0-3)(F/S)(Diversity). An introduction to the important authors, themes, characteristics, and developments in the newly emerging literatures written in English outside the traditions of Britain and the United States. Focus on contemporary writers from Africa, Australia, Canada, India, New Zealand, Pakistan, and West Indies, with an introduction to the cultural and socio-political background of each country. PREREQ: ENGL 275 or PERM/INST.

ENGL 415-415G ON-SCREEN DOCUMENT PRODUCTION (3-0-3)(F/S). 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 Web sites. PREREQ: ENGL 312 or PERM/INST.

ENGL 424 TOPICS IN LITERATURE (3-0-3)(F/S). Focused study of literature, which may be organized by author, period, genre, theme, or critical approach. Topics vary each time the course is taught. May be repeated for a total of six credits. PREREQ: ENGL 275 or PERM/INST.

ENGL 481 LITERATURE FOR USE IN JUNIOR AND SENIOR HIGH SCHOOL (3-0-3)(F,S). A literary content course designed for prospective or experienced teachers of secondary school English. Primary emphasis is on critical reading of literature ordinarily used with

adolescents in secondary schools. Secondary emphasis is on methods of critical analysis appropriate to secondary students. All genres will be discussed. Both classical and popular authors will be included. PREREQ: Either ENGL 275 and two literature courses, or PERM/INST. COREQ: ENGL 301.

ENGL 485 BRITISH AND AMERICAN POETRY: 1900-1945 (3-0-3)(F/S)(Offered alternately with ENGL 486). A study of the radical changes that W. B. Yeats, T. S. Eliot, Ezra Pound, William Carlos Williams, and others made in poetry's traditional aesthetic and thematic concerns, as seen in their work from the turn of the century through two world wars. PREREQ: ENGL 275 or PERM/INST.

ENGL 486 BRITISH AND AMERICAN POETRY: 1945-PRESENT (3-0-3)(F/S)(Offered alternately with ENGL 485). A study of significant poets beginning or reaching the culmination of their careers in post-World War II England and America. Concerns include the influences on their writing of earlier poets, including the Modernists, and the nature of the categories, such as those designated "Movement," "Confessional," and "Feminist," into which critics, scholars, and their peers place these poets. PREREQ: ENGL 275 or PERM/INST.

ENGL 498 SENIOR SEMINAR (3-0-3)(S). Required of all senior English majors. PREREQ: Senior standing or PERM/CHAIR.

ENGL 499 SENIOR SEMINAR IN TECHNICAL COMMUNICATION (3-0-3)(F/S). Study and application of principles for creating a documentation set consisting of print and on-screen documents. Addresses strategies for working successfully as a technical communicator in industry. Topics include content design and organization, writing style, graphic design, principles of Web design and online help systems, and usability testing. PREREQ: ENGL 415 or PERM/INST.

HUM—HUMANITIES

HUM 207, 208 INTRODUCTION TO HUMANITIES (3-0-3)(F/S)(Area I). The human intellectual and creative heritage as reflected in art, literature, philosophy, and architecture. PREREQ: ENGL 102 or PERM/CHAIR.

LING—LINGUISTICS

LING 305 INTRODUCTION TO LANGUAGE STUDIES (3-0-3)(F/S). A general survey of contemporary language study as it is carried on in the fields of linguistics, anthropology, and psychology, with emphasis on meaning, sounds, words, and sentence formation in English. PREREQ: ENGL 102 or PERM/CHAIR.

LING 306 MODERN ENGLISH GRAMMAR (3-0-3)(F/S). 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.

LING 307 APPLIED ENGLISH LINGUISTICS (3-0-3)(F/S)(Alternate years). 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.

LING 309 HISTORY OF THE ENGLISH LANGUAGE (3-0-3)(F/S). 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: LING 305 or PERM/CHAIR.

LING 406 PSYCHOLINGUISTICS (3-0-3)(F/S). 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 305.

LING 407-407G APPLIED LINGUISTICS IN TEACHING ENGLISH AS A SECOND LANGUAGE (3-0-3)(F/S)(Alternate years)(Diversity). Designed to help teachers in the bilingual classroom or teachers of students of limited proficiency in speaking English to understand how to deal with the process of learning English. It will focus on identifying, defining, and remedying the specific problems that confront learners of a second language. PREREQ: LING 305.

LING 411 (ANTH 411) LANGUAGE, CULTURE AND SOCIETY (3-0-3)(S)(Alternate years). 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. ANTH 102, LING 305 or a foreign language recommended. This course may be taken for LING or ANTH credit, but not both.

Entrepreneurial—see Department of Management

Environmental and Occupational Health—see Department of Community and Environmental Health

Environmental Studies

College of Arts and Sciences

Hemingway Western Studies Center, Room 51 Telephone 208 426-2625
http://artsci.boisestate.edu/ Fax 208 426-4329

Coordinator: Christopher Hill. *Advisors:* Bruce Ballenger, Geoffrey Black, Lisa Brady, George Murgel, Steve Novak, Martin Schimpf, Dale Stephenson, David Wilkins.

Degrees Offered

- B.A. and 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 Coordinator's office.

Degree Requirements

Environmental Studies Bachelor of Arts	
Course Number and Title	**Credits**
ENGL 101-102 English Composition	6
Area I—see page 45 for list of approved courses	
Area I core course in literature	3
Area I core course in a second field	3
Area I core course in a third field	3
Area I core course in any field	3
Area II—see page 45 for list of approved courses	
Area II core course in history	3
ANTH 102 Cultural Anthropology **OR** ANTH 103 Introduction to Archeology	3
ECON 202 Principles of Microeconomics	3
POLS 101 American National Government	3
Area III	
Area III requirements are automatically met by specific courses included in the major requirements below.	
ANTH 303 Human Paleoecology **OR** BIOL 323 Ecology	3-4
ANTH 314 Environmental Anthropology **OR** GEOG 321 Conservation of Natural Resources	3
BIOL 191-192 General Biology I-II	8
CHEM 101-102 Essentials of Chemistry **OR** CHEM 105 Accelerated Essentials of Chemistry **OR** *CHEM 111, 111L-112, 112L General Chemistry I and II with Labs *May be a prerequisite for courses chosen below.	5-9
COMM 231 Public Speaking **OR** COMM 356 Communication in a Small Group **OR** COMM 412 Persuasion	3
ECON 333 Natural Resource Economics	3

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Environmental Studies (continued)	
ENGL 202 Technical Communication	3
ENVHLTH 100 Introduction to Environmental Health	2
ENVSTD 121 Introduction to Environmental Studies ENVSTD 491-492 Senior Project I & II *ENVSTD 493 Internship *Students must complete at least two internships worth two to three credits each in two of the following areas: natural resource industry, conservation organization, and government agency involved in natural resource management or environmental regulation.	3 6 4-6
GEOG 100 Introduction to Geography **OR** GEOG 102 Cultural Geography GEOG 360 Geographic Information Systems	3 3
GEOS 101 Environmental Geology	4
HIST 351 North American Environmental History HIST 376 Global Environmental History **OR** *HIST 497 Special Topics in History *HIST 497 course must be approved by Environmental Studies Program Director	3 3
MATH 143 College Algebra MATH 254 Applied Statistics with a Computer **OR** PSYC 295 Statistical Methods	3 3-4
PHIL 211 Ethics	3
POLS 340 Environmental Politics	3
Two courses chosen from: COMM/SOC 390, DISPUT 400, or MGMT 301	6
9 credits chosen from courses in the following focus areas: Courses in this list that are used to satisfy requirements in previous sections may not be counted toward the 9-credit requirement in this section.	9
Health Focus	
*ENVHLTH 310 Water Supply and Water Quality Management *ENVHLTH 380 Air Quality Management *ENVHLTH 417 Principles of Toxicology ENVHLTH 442 Hazardous Waste Management ENVHLTH 450 Environmental Health Law *Requires CHEM 111-112 as prerequisite	
Policy Focus	
ECON 322 Urban Economics HIST 376 Global Environmental History *HIST 497 Special Topics in History MGMT 301 Leadership Skills POLS 303 Introduction to Public Administration POLS 320 American Policy Process SOC 440 Environmental Sociology *HIST 497 courses must be approved by Environmental Studies Program Director	

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Environmental Studies (continued)	
Science Focus	
BIOL 422 Conservation Biology *CHEM 211, 212 Analytical Chemistry I and Lab *CHEM 301 Survey of Organic Chemistry *CE 320 Principles of Environmental Engineering (CE 321 Environmental Engineering Lab is optional) GEOG 331 Climatology GEOS 212 Water in the West *GEOS 426 Aqueous Geochemistry *Requires CHEM 111-112 as prerequisite	
Electives to total 128 credits 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 studies. BIOL 415, 427; BOT 425; CHEM 317, 432; COMM 361, 390, 478; ENGL 302, 402; ENGR 360; GEOG 361; GEOS 201, 305, 313; PARALGL 431; MGMT 401; PHIL 201, PHIL 337, 406; POLS 467, 469; SOC 487	4-11
Total	128

Environmental Studies Minor

Course Number and Title	Credits
ENVSTD 121 Introduction to Environmental Studies	3
GEOG 100 Introduction to Geography	3
ANTH 303 Human Paleoecology **OR** ANTH 314 Environmental Anthropology **OR** BIOL 323 Ecology **OR** GEOG 321 Conservation of Natural Resources	3-4
ECON 333 Environmental Economics **OR** HIST 351 North American Environmental History **OR** HIST 376 Global Environmental History **OR** POLS 340 Environmental Politics	3
Choose 8 credits from the following: BIOL 191 General Biology I BIOL 192 General Biology II CHEM 101 Essentials of Chemistry I CHEM 102 Essentials of Chemistry II CHEM 105 Accelerated Essentials of Chemistry CHEM 111 General Chemistry I CHEM 112 General Chemistry II ENVHLTH 100 Introduction to Environmental Health GEOS 101 Environmental Geology	8
Choose 6 credits from the following: (Courses used to satisfy requirements in previous sections may not be used to satisfy the 6 credits required in this section) ANTH 303 Human Paleoecology ANTH 314 Environmental Anthropology BIOL 323 Ecology BIOL 422 Conservation Biology *CHEM 211, 212 Analytical Chemistry I and Lab *CHEM 301 Survey of Organic Chemistry *CE 320 Principles of Environmental Engineering (CE 321 Principles of Environmental Engineering is optional) ECON 322 Urban Economics ENVHLTH 310 Water Supply and Water Quality Management ENVHLTH 380 Air Quality Management ENVHLTH 417 Principles of Toxicology ENVHLTH 442 Hazardous Waste Management ENVHLTH 450 Environmental Health Law GEOG 321 Conservation of Natural Resources GEOS 212 Water in the West *GEOS 426 Aqueous Geochemistry HIST 351 North American Environmental History HIST 376 Global Environmental History SOC 440 Environmental Sociology *Requires CHEM 111-112 as prerequisite	6
Total	26-27

Course Offerings

See page 65 for a definition of the course-numbering system.

ENVSTD—ENVIRONMENTAL STUDIES

Lower Division

ENVSTD 121 INTRODUCTION TO ENVIRONMENTAL STUDIES (3-0-3)(S). 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. Includes a service learning component.

Upper Division

ENVSTD 491, 492 SENIOR PROJECT I, II (1-6-3)(F/S). Two semester 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. Includes progress reports, oral presentations, and a written final report. PREREQ: BIOL 323, ENVHLTH 450, GEOG 321, and POLS 340, or PERM/INST. For ENVSTD 492: 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.)

Exercise Science, Exercise Physiology Emphasis—see Department of Kinesiology

Exercise Science, Fitness Evaluation and Programming Emphasis—see Department of Kinesiology

Finance—see Department of Marketing and Finance

Fitness (Kinesiology) Activity courses—see Department of Kinesiology

French—see Department of Modern Languages and Literatures

General Business—see Department of Management

Gender Studies Minor

College of Social Sciences and Public Affairs

Library, Room 177 Telephone 208 426-1255
http://genderstudies.boisestate.edu
Information: gjohnson@boisestate.edu

Director: Lisa McClain

Program Statement

Multicultural and interdisciplinary in perspective, the course work in gender studies seeks to recognize the diversity of human experience. Students examine the experiences of women and men and 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 course work seeks to provide students with essential preparation for lives and careers deeply impacted by the ongoing debate regarding gender and sexuality in our society.

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 65 for a definition of the course-numbering system.

GENDER—GENDER STUDIES

GENDER 300 INTRODUCTION TO GENDER STUDIES (3-0-3)(F/S)(Diversity). 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)(Diversity). 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)(Diversity). 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)(Diversity). 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)(Diversity). 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)(Diversity). 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.

Bachelor of General Studies

College of Social Sciences and Public Affairs

Degrees Offered

- Bachelor of General Studies

Program Statement

The Bachelor of General Studies degree is designed to meet the needs of adult students with significant life experience who have already completed sixty 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 General Studies Faculty Committee. Students desiring a discipline-specific course of study should consider traditional majors.

Admission Requirements

Admission to the Bachelor of General Studies program requires a minimum of at least 60 semester hours of credit earned at or transferable to Boise State University. All transfer credit accepted toward the Bachelor of General Studies degree must have a grade of C of better. In addition, the applicant must have at least five years of life experience other than that of being a full-time student, ex. full time paid or volunteer employment, family care-provider/parent, or other non-academic life experience.

Degree Requirements

Bachelor of General Studies	
Course Number and Title	**Credits**
ENGL 101-102 English Composition	6
Area I—see page 45 for list of approved courses	
Area I core course in one field	3
Area I core course in a second field	3
Area I core course in a third field	3
Area I core course in any field	3
Area II—see page 45 for list of approved courses	
Area II core course in one field	3
Area II core course in a second field	3
Area II core course in a third field	3
Area II core course in any field	3
Area III—see page 45 for list of approved courses	
Area III core course in mathematics	3-5
Area III core course in a second field	4
Area III core course in any field	4
GS 200 Introduction to General Studies	2
GS 400 Capstone for the Bachelor of General Studies	3
Upper-division courses required by the degree plan. 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 General Studies Faculty Committee. At least 22 credits must be completed after admission to the BGS program. 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. Credits from workshops may not be used to satisfy this requirement.	37
Electives to total 128 credits.	43-45
Total	128

Course Offerings

See page 65 for a definition of the course-numbering system.

GS—GENERAL STUDIES

GS 200 INTRODUCTION TO BACHELOR OF GENERAL STUDIES (2-0-2)(Offered as Justified). Introduction and analysis of learning and adult development theories, utilizing reflection and application of current life skills and intellectual competencies. Apply theories and readings to assess critical thinking skills and communication proficiencies. PREREQ: Admitted to program and PERM/INST.

GS 400 CAPSTONE FOR THE BACHELOR OF GENERAL STUDIES (3-0-3)(Offered as Justified). Students 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 educational goals of the student's degree plan. PREREQ: GS 200, Senior Standing, and PERM/INST.

Department of Geosciences

College of Arts and Sciences

Mathematics-Geosciences Building, Room 121 Telephone 208 426-1631
http://earth.boisestate.edu Fax: 208 426-4061
e-mail: ejohanse@boisestate.edu or TeresaLobb@boisestate.edu

Chair and Professor: C.J. Northrup. *Professors:* McNamara, Pelton, Snyder, White. *Associate Professor:* Kohn, Michaels, Wilkins. *Assistant Professors:* Benner, Bradford, Pierce, Schmitz, van Wijk. *Research Professors:* Barrash, Clemo, Clement, Davydov, Gillerman, Stoklosa, Viskupic, Zollweg.

Degrees Offered

- B.A. in Geoarchaeology (See the Anthropology Department.)
- B.S. in Earth Science Education, Secondary Education
- B.S. in Geophysics
- B.S. in Geosciences
- M.S. in Earth Science (See the *BSU Graduate Catalog.*)
- M.S. in Geology (See the *BSU Graduate Catalog.*)
- M.S. in Geophysics (See the *BSU Graduate Catalog.*)
- M.S. in Hydrologic Sciences (See the *BSU Graduate Catalog.*)
- Ph.D. in Geophysics (See the *BSU Graduate Catalog.*)
- Ph.D. in Geosciences (See the *BSU Graduate Catalog.*)
- Minor in Geospatial Information Analysis

Department Statement

The curriculum leading to the B.S. degree in Geosciences is designed for students who plan a career in geology or hydrology or who plan to attend graduate school. The curriculum leading to the B.S. degree in Earth Science education is designed to prepare students to teach earth science in secondary schools and to meet the teacher certification requirements of the State of Idaho. The curriculum leading to the B.S. degree in Geophysics prepares students for a broad variety of careers in quantitative geoscience or for graduate school in many scientific and engineering disciplines.

A geophysics major receives a thorough preparation in geophysics, an introductory background in chemistry, computer science, geology, mathematics, and physics, and more focused study in one of five elective areas: applied mathematics, geology, geotechnical engineering, hydrogeology, or physics.

In addition to the courses formally offered in all degree programs, students are encouraged to earn credit for independent study, internship, undergraduate or graduate 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.

Degree Requirements

Geosciences Bachelor of Science	
Course Number and Title	**Credits**
ENGL 101-102 English Composition	6
Area I—see page 45 for list of approved courses	
Area I core course in one field	3
Area I core course in a second field	3
Area I core course in a third field	3
Area I core course in any field	3
Area II—see page 45 for list of approved courses	
Area II core course in one field	3
Area II core course in a second field	3
Area II core course in a third field	3
Area II core course in any field	3

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Geosciences (continued)	
Area III	
Area III requirements are automatically met by specific courses included in the major requirements below.	
CHEM 111, 111L-112, 112L General Chemistry I and II with Labs	9
ENGL 201 Nonfiction Writing **OR** ENGL 202 Technical Communication	3
GEOG 360 Geographic Information Systems	3
GEOPH 201 Seeing The Unseen	3
GEOS 100 Fundamentals of Geology **OR** GEOS 101 Environmental Geology GEOS 200 Evolution of Western North America GEOS 212 Water in the West GEOS 313 Geomorphology GEOS 498 Senior Seminar	4 4 4 3 1
MATH 170, 175* Calculus I and Calculus II Mathematics through MATH 275 is recommended for students planning graduate studies. *An approved statistics course may be substituted for MATH 175.	8
Physics Option I: (Recommended for students planning graduate studies) PHYS 211, 211L-212, 212L Physics I & II with Calculus and Lab *CHEM 321-323 Physical Chemistry and Lab may be substituted for PHYS 212, 212L. Physics Option II: PHYS 111-112 General Physics	8-10
Select from one of the following emphasis areas	
Geology Emphasis	
GEOS 300 Earth Materials GEOS 314 Structural Geology GEOS 315 Sedimentation and Stratigraphy GEOS 324 Petrography GEOS 345 Igneous and Metamorphic Petrology GEOS 425 Whole Earth Geochemistry GEOS 482 Summer Field Camp	4 4 4 1 3 3 6
Upper-division electives to total 40	5
Electives to total 128 credits	14-16
Total	128
Hydrology Emphasis	
GEOS 413 Hydrogeology Lab GEOS 416 Hydrology GEOS 426 Aqueous Geochemistry GEOS 486 Senior Capstone	1 3 3 3-6
Approved science/engineering courses from list available in the department office. At least 12 of the 15 credits must be upper-division.	15
Upper-division electives to total 40 credits	2-5
Electives to total 128 credits	9-16
Total	128

The Earth Science 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 professional educator. 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. 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. In addition to completing the requirements for this degree, students may need to complete the minor certification endorsement requirements for any area listed on that website. Students must meet all knowledge, skill, and disposition requirements to remain in the program.

Earth Science Education Bachelor of Science

Course Number and Title	Credits
ENGL 101-102 English Composition	6
Area I—see page 45 for list of approved courses	
Area I core course in one field	3
Area I core course in a second field	3
Area I core course in a third field	3
Area I core course in any field	3
Area II—see page 45 for list of approved courses	
ED-CIFS 201 Foundations of Education	3
GEOG 100 Introduction to Geography	3
PSYC 101 General Psychology	3
Area II core course in any field	3
Area III	
Area III requirements are automatically met by specific courses included in the major requirements below.	
CHEM 111, 111L-112, 112L General Chemistry I and II with Labs	9
*ED-CIFS 301 Teaching Experience I	1
*ED-CIFS 302 Learning and Instruction	4
*ED-CIFS 401 Professional Year—Teaching Experience II	2
*ED-CIFS 404 Teaching Secondary Science	3
*ED-LTCY 444 Content Literacy for Secondary Students	3
*ED-SPED 350 Teaching Students with Exceptional Needs at the Secondary Level	3
*Teaching Experience III/IV	16
NOTE: *You must apply for admission to secondary teacher education in order to enroll in these upper-division education courses. Completion of all requirements for graduation with a secondary education option may require more than 128 credit hours. See "Department of Curriculum, Instruction, and Foundational Studies" for more information.	
EDTECH 202 Educational Technology – Classroom Applications	3
GEOG 213 Introduction to Meteorology	3
GEOG 331 Climatology	3
GEOS 100 Fundamentals of Geology **OR** GEOS 101 Environmental Geology	4
GEOS 200 Evolution of Western North America	4
GEOS 201 Introduction to Oceanography	3
GEOS 212 Water in the West **OR** GEOPH 201 Seeing the Unseen: an Introduction to Geophysics	4
GEOS 498 Senior Seminar	1
MATH 147 Precalculus	5
PHYS 105 Stars and Cosmology	4
PHYS 111-112 General Physics	8
Major Endorsement in Earth Science	
GEOS 300 Earth Materials	4
GEOS 313 Geomorphology	4
GEOS 314 Structural Geology **OR** GEOS 315 Sedimentation and Stratigraphy	4
Upper-division Geoscience electives to total 45 earth science-content credits	6
Total	132

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Earth Science Education (continued)	
Major Endorsement in Earth Science with a Minor Endorsement in a Second Field	
GEOS 300 Earth Materials	4
GEOS 313 Geomorphology	4
Minor endorsement in a second field	20-34
Total	141-155

Earth Science Minor Certification Endorsement

Course Number and Title	Credits
GEOG 213 Introduction to Meteorology	3
GEOS 100 Fundamentals of Geology **OR** GEOS 101 Environmental Geology	4
GEOS 200 Evolution of Western North America	4
GEOS 201 Introduction to Oceanography	3
GEOS 300 Earth Materials	4
PHYS 105 Stars and Cosmology	4
Geology/geophysics courses selected from: GEOS 313, GEOS 314, GEOS 315	4
Total	26

Geography Minor Certification 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

Geophysics Bachelor of Science

Course Number and Title	Credits
ENGL 101-102 English Composition	6
Area I—see page 45 for list of approved courses	
Area I core course in one field	3
Area I core course in a second field	3
Area I core course in a third field	3
Area I core course in any field	3
Area II—see page 45 for list of approved courses	
Area II core course in one field	3
Area II core course in a second field	3
Area II core course in a third field	3
Area II core course in any field	3
Area III	
Area III requirements are automatically met by specific courses included in the major requirements below.	
CHEM 111, 111L-112, 112L General Chemistry I and II with Labs	9
COMPSCI 115 Introduction to C	2
COMPSCI 125 Introduction to Computer Science I	4

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Geophysics (continued)	
GEOPH 201 Seeing The Unseen GEOPH 300 Physics of the Earth GEOPH 305 Applied Geophysics GEOPH 420 Geophysical Applications of Digital Signal Processing GEOPH 486 Geophysics Field Camp GEOPH 498 Geophysics Senior Seminar	3 3 3 3 4 1
GEOS 100 Fundamentals of Geology GEOS 300 Earth Materials	4 4
Upper-division geophysics electives	6
MATH 170, 175 Calculus I and Calculus II MATH 275 Multivariable and Vector Calculus MATH 333 Differential Equations with Matrix Theory	8 4 4
PHYS 211, 211L-212, 212L Physics I & II with Calculus and Lab	10
Courses chosen from one of the following areas: 1. Applied mathematics: MATH 301, MATH 465 and either MATH 326, MATH 360, MATH 361, MATH 436, or MATH 464. 2. Geology: GEOS 310, GEOS 313, GEOS 314. 3. Geotechnical engineering: CE 360, CE 361, ENGR 210, ENGR 220, ENGR 350. 4. Hydrogeology: GEOPH 410, GEOS 412, GEOS 413. 5. Physics: PHYS 341 and PHYS 381 plus 6 additional credits of upper-division physics.	8-13
Upper-division electives to total 40 credits	0-2
Electives to total 128 credits	13-16
Total	128
NOTE: Electives include courses selected to meet an individual student's needs. Students must have a minimum of 40 upper-division (300/400 level) credit hours. See your advisor for assistance.	

This minor is interdisciplinary in its application of geospatial technologies towards 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 GEOG 361 Remote Sensing GEOG 460 Geographic Information Analysis **OR** GEOG 493 Internship	3 3 3
ITM 104 Operating Systems and Word Processing ITM 105 Spreadsheet Topics ITM 106 Database Topics	1 1 1
MATH 254 Applied Statistics with Computers **OR** MATH 361 Probability and Statistics	4
Total	19

Natural Science Minor Certification Endorsement	
Course Number and Title	**Credits**
BIOL 191-192 General Biology I, II	8
CHEM 111, 111L-112, 112L General Chemistry I and II with Labs	9
GEOS 101 Environmental Geology GEOS 300 Earth Materials	4 4
PHYS 111-112 General Physics **OR** PHYS 211-212 Physics I and II with Calculus and Lab	8
A minimum of two upper division courses in a science other than the major endorsement	8
Total	32
Students pursuing this minor certification endorsement are required to hold a major certification endorsement in: Biology, Chemistry, Earth Science Education or Physics.	

Course Offerings

See page 65 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.

GEOG — GEOGRAPHY

Lower Division

GEOG 100 INTRODUCTION TO GEOGRAPHY (3-0-3)(F/S)(Area II). 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)(Area II)(Diversity). A study of the distribution and character of cultural activities throughout the world with emphasis on human landscapes.

GEOG 210 SURVEY OF WORLD REGIONAL GEOGRAPHY (3-0-3)(F/S)(Diversity). A survey of human populations and their relationship to their physical environments. Countries, regions, cultures, ethnic geography, religion, language, and major economic units will be discussed. Students will learn to use maps, aerial photos, and reference materials.

GEOG 212 (GEOS 212) WATER IN THE WEST (3-3-4)(S). Introduction to hydrologic sciences. Topics include climate, surface and groundwater quality and quantity, surficial geology and the interaction of hydrologic and ecological processes. Emphasis on water issues of the Western United States. PREREQ: GEOG 100 or GEOS 100 or GEOS 101. PRE/COREQ: MATH 147.

GEOG 213 INTRODUCTION TO METEOROLOGY (3-0-3)(F). A study of weather phenomena in terms of origin, distribution, and classification. Instruments and research methods are also investigated. PREREQ: GEOG 100.

Upper Division

GEOG 321 CONSERVATION OF NATURAL RESOURCES (3-0-3)(F/S). Informative study of resources, their use and relative values. Discussions will include perception, attitudes, character of resources, demand factors, social implications, and population characteristics. Local and regional examples are emphasized. Local experts on conservation issues will serve as guest speakers. PREREQ: GEOG 100 or GEOG 102.

GEOG 331 CLIMATOLOGY (3-0-3)(F/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.

GEOG 350 (GEOS 350) GEOLOGY AND GEOGRAPHY OF NATIONAL PARKS (3-0-3)(F)(Even years). Systematic study of the distinguishing physical environments – climate, geology, processes, and landforms – that define national parks. PREREQ: GEOG 100 or GEOS 100 or GEOS 101.

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 associated software strongly recommended. PREREQ: GEOG 100 or GEOG 102 or GEOS 280.

GEOG 361 REMOTE SENSING (2-2-3)(F/S). Acquisition, interpretation, and analysis of digital imagery. Remote sensing applications including forestry, geology, ecology, and urban planning. Labs focus on processing, interpretation, and analysis of digital imagery. Introductory course in geographic information systems strongly recommended. PREREQ: GEOG 100 or GEOS 280.

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)(F/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 (3-3-4)(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)(S). Introduction to the earth's gravity, magnetism, electricity, seismicity, heat, and radioactivity, with a discussion of the significance of these properties to geological processes. PREREQ: GEOS 100, PHYS 112 or 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 410-410G 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. PREREQ: GEOPH 301 or GEOPH 305 or PERM/INST.

GEOPH 416 (CE 416)(GEOS 416) HYDROLOGY(3-0-3)(S). 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, GEOPH, or CE credit, but not in more than one department. PREREQ: MATH 175 or PERM/INST.

GEOPH 420 GEOPHYSICAL APPLICATIONS OF DIGITAL SIGNAL PROCESSING (2-2-3)(F/S). 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 301 or GEOPH 305 or PERM/INST.

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: GEOS 101 or PERM/INST.

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: GEOS 101 or PERM/INST.

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: GEOS 101 or PERM/INST.

GEOPH 486 GEOPHYSICS FIELD CAMP (4 weeks-4credits)(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 498, 499 GEOPHYSICS SENIOR SEMINAR (1-0-1). Research project based on field and/or literature studies. Fundamentals of report preparation and oral presentations. PREREQ: geophysics major.

GEOS—GEOSCIENCE

Lower Division

GEOS 100 FUNDAMENTALS OF GEOLOGY (3-2-4)(Area III). 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.

GEOS 101 ENVIRONMENTAL GEOLOGY (3-2-4)(F,S)(Area III). A study of earth materials and systems, the use of earth resources, and the interactions of geologic processes and human activities. Includes geologic hazards, mineral resources, water supply, and waste disposal. Labs use maps and specimens to illustrate case studies.

GEOS 102 HISTORICAL GEOLOGY (3-3-4)(S)(Area III). 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.

GEOS 103 HISTORY OF THE EARTH (3-0-3)(F/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 (3-3-4)(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. COREQ: MATH 147.

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 (GEOG 212) WATER IN THE WEST (3-3-4)(S). Introduction to hydrologic sciences. Topics include climate, surface and groundwater quality and quantity, surficial geology and the interaction of hydrologic and ecological processes. Emphasis on water issues of the Western United States. PREREQ: GEOG 100 or GEOS 100 or GEOS 101. PREREQ/COREQ: MATH 147.

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, 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 313 GEOMORPHOLOGY (3-3-4)(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: ENGL 102, GEOS 200, and MATH 147.

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, GEOS 280, and MATH 147.

GEOS 315 SEDIMENTATION AND STRATIGRAPHY (3-3-4)(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 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 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 study of the distinguishing physical environments – climate, geology, processes, and landforms – that define national parks. PREREQ: GEOG 100 or GEOS 100 or GEOS 101.

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 412 (CE 412) HYDROGEOLOGY (3-0-3)(F). The study of subsurface water and its relationship to surface water, the hydrologic cycle, and the physical properties of aquifer systems. Flow nets and flow through porous and fractured media. Methods of determination of aquifer characteristics and performance and groundwater modeling. May be taken for either CE or GEOS credit, but not both. PREREQ: MATH 175, junior standing.

GEOS 413 HYDROGEOLOGY COMPUTATION LABORATORY (0-2-1)(F). Practice with hydrogeology computer programs and field measurements. PRE/COREQ: GEOS 412.

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 310. COREQ: GEOS 314.

GEOS 416 (CE 416)(GEOPH 416) HYDROLOGY(3-0-3)(S). 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, GEOPH, or CE credit, but not in more than one department. PREREQ: MATH 175 or PERM/INST.

GEOS 421 ORE DEPOSITS (2-3-3)(Offered as justified). Modern theories of ore deposition, the origin and migration of ore-bearing fluids, the processes of alteration and secondary enrichment, the controls of ore occurrence, and the economics of exploration, development and use of ores. Labs consist of detailed studies of ore and alteration suites using hand specimens and transmitted and reflected-light microscopy. Field trips required. PREREQ: GEOS 300.

GEOS 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/S). 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/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.

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 440 TECTONICS SEMINAR (2-0-2)(F/S). Examination of specific orogenic systems, tectonic environments, and tectonic processes. PREREQ: GEOS 314 or PERM/INST.

GEOS 441 PLATE TECTONICS (3-0-3)(F/S)(Offered on demand). 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 451-451G PRINCIPLES OF SOIL SCIENCE (3-0-3)(F/S)(Offered as justified). Major aspects of soil science, including the physical, chemical, and biological characteristics of soils, will be presented in the classroom lectures. Demonstration laboratory exercises and field trips will be required. PREREQ: Background in geology and chemistry.

GEOS 460 VOLCANOLOGY (3-0-3)(F)(Offered on demand). 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 300.

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 REGIONAL FIELD STUDY (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 102 or 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 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).

GEOS 495 SENIOR THESIS (4-6 credits). Field study involving an original investigation in geology or 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. Project may be substituted for GEOS 480 upon approval of a written proposal by a committee of three department faculty members. PREREQ: Senior standing.

GEOS 498 GEOLOGY SENIOR SEMINAR (1-0-1)(S). Research project based on field and/or literature studies. Fundamentals of geologic report preparation and oral presentations. PREREQ: geology or earth science education major with senior standing.

German—see Department of Modern Languages and Literatures

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 Promotion — see Department of Kinesiology

Department of History

College of Social Sciences and Public Affairs

Albertsons Library, Room 192 Telephone 208 426-1255
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Chair and Professor: Nick Miller. *Professors:* Buhler, Odahl, Schackel, Shallat, Woods, Zirinsky. *Associate Professors:* Barbour, Brady, Gill, Klein, Lubamersky, McClain. *Assistant Professors:* Bieter, Dominguez.

College of Social Science and Public Affairs Secondary Education Advisor: John Bieter

Coordinator of Graduate Studies and Associate Professor: Jill Gill.

Director of Gender Studies and Associate Professor: Lisa McClain.

Director of The Idaho Center for the Study of Idaho History and Politics and Professor: Todd Shallet.

Latin Language Advisor and Professor: Charles Odahl.

Degrees Offered

- B.A. and Minor in History
- B.A. in History, Secondary Education
- B.A. in History, Social Studies, Secondary Education Emphasis
- M.A. in History (See the *BSU Graduate Catalog*.)
- Master of Applied Historical Research (See the *BSU Graduate Catalog*.)
- Minor in Latin Languages and Literature
- Minor Certification Endorsement in Latin

Department Statement

The Department of History offers two baccalaureate degree programs: history, bachelor of arts (45 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 Studies, 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.

Students majoring in history, bachelor of arts, and history, secondary education, bachelor of arts are required to take 27 credits of upper-division history course work distributed as follows: a seminar of 3 credits, 12 credits in major field of emphasis, 6 credits in one minor field and 6 credits in another minor field. There are three history fields each representing one of the following geographic regions: 1) European, 2) United States and Canada, 3) regional history which includes Asia, Africa, Latin America, and the Middle East. (Note that HIST 291 Introduction to the Study of History is a department requirement and must be passed with a grade of C or better). Specific requirements for each degree are listed below.

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 minor certification 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.

The department also offers course work in a 29-hour academic minor in Latin language and literature as well as a 20-hour minor certification endorsement for teaching Latin in secondary schools.

Degree Requirements

History
Bachelor of Arts

Course Number and Title	Credits
ENGL 101-102 English Composition	6
Area I—see page 45 for list of approved courses	
Area I core course in literature	3
Area I core course in a second field	3
Area I core course in a third field	3
Area I core course in any field	3
Area II—see page 45 for list of approved courses	
POLS 101 American National Government	3
Area II core course in history	3
Area II core course in a third field	3
Area II core course in any field, except history	3
Area III—see page 45 for list of approved courses	
*Area III core course in mathematics	3-5
Area III core course in a second field	4
Area III core course in any field	4
*MATH 124 recommended	
Additional Area I and II courses	9
HIST 101/201 History of Western Civilization	3
HIST 102/202 History of Western Civilization	3
HIST 111/211 U. S. History	3
HIST 112/212 U. S. History	3
HIST 121 Eastern Civilizations	3
*HIST 291 Introduction to the Study of History	3
*Must be completed with a grade of C or better	
One year of college level foreign language in sequence	8
Language equivalency required by the History Department will be determined by the Department of Modern Languages and Literatures or the History Department.	
History Seminar	3
Upper-division history major emphasis	12
Upper-division history minor field I	6
Upper-division history minor field II	6
Upper-division electives to total 40 credits	13
Electives to total 128 credits	10-12
Total	128

NOTE: Majors must have upper-division course work distributed between European, U.S., and regional history, with at least 12 hours in one area and at least 6 hours in each of the other two.

Both the History, Secondary Education and the History, Social Studies, 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 reflective practitioner. Reflective practitioners 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
ENGL 101-102 English Composition	6
Area I—see page 45 for list of approved courses	
Area I core course in literature	3
Area I core course in a second field	3
Area I core course in a third field	3
Area I core course in any field	3
Area II—see page 45 for list of approved courses	
POLS 101 American National Government	3
Area II core course in history	3
Area II core course in a third field	3
Area II core course in any field, except history	3
Area III—see page 45 for list of approved courses	
*Area III core course in mathematics	3-5
Area III core course in a second field	4
Area III core course in any field	4
*MATH 124 recommended	
ED-CIFS 201 Foundations of Education	3
*ED-CIFS 301 Teaching Experience I	1
*ED-CIFS 302 Learning and Instruction	4
*ED-CIFS 401 Professional Year—Teaching Experience II	2
*ED-CIFS 405 Teaching Secondary Social Studies	3
*ED-LTCY 444 Content Literacy for Secondary Students	3
*ED-SPED 350 Teaching Students with Exceptional Needs at the Secondary Level	3
*Teaching Experience III/IV	16
NOTE: *You must apply for admission to secondary teacher education in order to enroll in these upper-division education courses. Completion of all requirements for graduation with a secondary education option may require more than 128 credit hours. See "Department of Curriculum, Instruction, and Foundational Studies" for more information.	
EDTECH 202 Educational Technology – Classroom Applications	3
HIST 101/201 History of Western Civilization	3
HIST 102/202 History of Western Civilization	3
HIST 111/211 U. S. History	3
HIST 112/212 U. S. History	3
HIST 121 Eastern Civilizations	3
*HIST 291 Introduction to the Study of History	3
*Must be completed with a grade of C or better	
One year of college level foreign language in sequence	8
Language equivalency required by the History Department will be determined by the Department of Modern Languages and Literatures or the History Department.	
History Seminar	3
Upper-division history major emphasis	12
Upper-division history minor field I	6
Upper-division history minor field II	6
Total	132-134
NOTE: Majors must have upper-division course work distributed between European, U.S., and regional history, with at least 12 hours in one area and at least 6 hours in each of the other two.	

History, Social Studies,
Secondary Education Emphasis
Bachelor of Arts

Course Number and Title	Credits
ENGL 101-102 English Composition	6
Area I—see page 45 for list of approved courses	
Area I core course in literature	3
Area I core course in a second field	3
Area I core course in a third field	3
Area I core course in any field	3
Area II	
ED-CIFS 201 Foundations of Education	3
HIST 111/211 U. S. History	3
HIST 112/212 U. S. History	3
POLS 101 American National Government	3
Area III—see page 45 for list of approved courses	
Area III core course in mathematics (MATH 124 recommended)	3-5
Area III core course in a second field	4
Area III core course in any field	4
*ED-CIFS 301 Teaching Experience I	1
*ED-CIFS 302 Learning and Instruction	4
*ED-CIFS 401 Professional Year—Teaching Experience II	2
*ED-CIFS 405 Teaching Secondary Social Studies	3
*ED-LTCY 444 Content Literacy for Secondary Students	3
*ED-SPED 350 Teaching Students with Exceptional Needs at the Secondary Level	3
*Teaching Experience III/IV	16
NOTE: *You must apply for admission to secondary teacher education in order to enroll in these upper-division education courses. Completion of all requirements for graduation with a secondary education option may require more than 128 credit hours. See "Department of Curriculum, Instruction, and Foundational Studies" for more information.	
EDTECH 202 Educational Technology – Classroom Applications	3
HIST 101/201 History of Western Civilization	3
HIST 102/202 History of Western Civilization	3
HIST 121 Eastern Civilizations	3
*HIST 291 Introduction to the Study of History	3
*Must be completed with a grade of C or better	
Upper-division European History	3
Upper-division Regional History	3
Upper-division U.S. History	3
History Seminar (any area accepted)	3
One year of college level foreign language in sequence	8
Language equivalency required by the History Department will be determined by the Department of Modern Languages and Literatures or the History Department.	
POLS 102 State and Local Government	3
Comparative Government chosen from: POLS 311, 321, 324, 325, 329, 333	3
Social Studies Requirement	15
(Social Studies State Certification requires that at least one course be completed in **each** of the following disciplines: Economics, Geography, Psychology, Sociology)	
Total	129-131

History Minor	
Course Number and Title	**Credits**
HIST 101 History of Western Civilization **OR** HIST 102 History of Western Civilization **OR** HIST 201 Problems in Western Civilization **OR** HIST 202 Problems in Western Civilization	3
HIST 121 Eastern Civilizations	3
HIST 111 U. S. History **OR** HIST 112 U. S. History **OR** HIST 211 Problems in U. S. History **OR** HIST 212 Problems in U. S. History	3
Upper-division history courses selected in consultation with a department advisor which meet the interests and needs of the student	12
Total	21

History Minor Certification Endorsement	
Course Number and Title	**Credits**
HIST 101, 102 History of Western Civilization **OR** HIST 201, 202 Problems in Western Civilization **OR** HIST 121 Eastern Civilizations	3
HIST 111, 112 U. S. History **OR** HIST 211, 212 Problems in U. S. History	6
POLS 101 American National Government	3
Upper-division history courses, including 3 credit hours of U.S. history, with the remaining 9 credit hours selected from two of the following major history areas European, U. S., and regional	12
Total	24

Classical Languages-Latin Minor Certification Endorsement	
Course Number and Title	**Credits**
LATIN 211 Elementary Classical Latin Language and Literature LATIN 212 Advanced Classical Latin Language and Literature LATIN 323 Early Church Latin Literature LATIN 324 Medieval Latin Literature LATIN 491 Advanced Latin Tutorial-Augustan Age LATIN 492 Advanced Latin Tutorial-Constantinian Era	4 4 3 3 3 3
Total	20
NOTE: The State Department of Education requires 20 credit hours of language study for a minor certification endorsement to teach in Idaho secondary schools. The 20 credits in Latin language courses for the academic minor in Latin language and literature are sufficient for state certification. However, it is strongly recommended that students earn at least 9 additional credits from the following history and culture courses to give themselves a firm grounding in the ancient and medieval civilizations using the Latin language. History and culture courses: ART 101, ENGL 217, HIST 302, HIST 303, HIST 305, HIST 380 Colloquium in European History: The Age of the Cathedrals, HIST 480 Seminar in European History: Augustus and the Golden Age of Rome, HIST 480 Seminary in European History: Constantine and the Late Roman Empire, PHIL 305, and PHIL 307.	

Latin Language and Literature Minor	
Course Number and Title	**Credits**
LATIN 211 Elementary Classical Latin Language and Literature LATIN 212 Advanced Classical Latin Language and Literature LATIN 323 Early Church Latin Literature LATIN 324 Medieval Latin Literature LATIN 491 Advanced Latin Tutorial-Augustan Age LATIN 492 Advanced Latin Tutorial-Constantinian Era	4 4 3 3 3 3
HIST 302 Ancient Rome	3
History and culture courses chosen from ARTHIST 101, ENGL 217, HIST 303, HIST 305, HIST 380 Colloquium in European History: The Age of the Cathedrals, HIST 480 Seminar in European History: Augustus and the Golden Age of Rome, HIST 480 Seminar in European History: Constantine and the Late Roman Empire, PHIL 305, and PHIL 307	6
Total	29

Course Offerings

See page 65 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 291 by the second semester sophomore year before taking any upper-division history courses.**

Lower Division

HIST 101 HISTORY OF WESTERN CIVILIZATION (3-0-3)(Area II). 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)(Area II). 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 twentieth century of the modern era.

HIST 111, 112 UNITED STATES HISTORY (3-0-3)(Area II). First semester: History of American civilization from Pre-Columbian days to 1877 with emphasis given to the development of the Union and expansion. Second semester: A survey of the significant factors influencing American development from the Civil War to the present, including the growth of American business and the emergence of the nation to a world power.

HIST 121 EASTERN CIVILIZATIONS (3-0-3)(F,S)(Area II)(Diversity). A topical and chronological historical survey of China and Japan. The course will introduce the philosophies, religions, cultures, and social patterns of China and Japan. Western intrusion (missionaries, trading companies, military personnel) into Asia, and the Asians' reactions to the West are included in this class. Other areas of Asia, including India, Korea, and Southeast Asia will be integrated into the class lectures and reading assignments.

HIST 201 PROBLEMS IN WESTERN CIVILIZATION (3-0-3)(F/S)(Area II). 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)(Area II). 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 U.S. HISTORY (3-0-3)(F)(Area II). 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 U.S. HISTORY (3-0-3)(S)(Area II). 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 251 HISTORY OF MULTICULTURAL AMERICA (3-0-3)(F/S)(Alternate years). An examination of America's multicultural history, with emphasis on how race and ethnicity have shaped American experience and identity.

HIST 291 INTRODUCTION TO THE STUDY OF HISTORY (3-0-3). An introduction to the study of history for liberal arts students, exploring the nature of the discipline, and dealing with practical problems of historical research and writing, including the applications of various methodological approaches to the analysis of data. Required of all history majors, prior to taking any upper-division history courses.

Upper Division

HIST 301 ANCIENT GREECE (3-0-3)(F/S)(Alternate years). 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: HIST 101, PERM/INST

HIST 302 ANCIENT ROME (3-0-3)(F/S). 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: HIST 101 or PERM/INST.

HIST 303 EARLY CHRISTIANITY (3-0-3)(F/S)(Alternate years). A study of the rise and development of Christianity from its Jewish and Greek origins in the first century through its establishment and elaboration as the state religion of the late Roman empire in the fifth century. Doctrinal, ethical, organizational, liturgical, and aesthetic developments within the Christian movement, and the political, social, and cultural roles of the Church within the late empire are analyzed through the media of early Christian and contemporary pagan writings and artistic remains.

HIST 304 THE BYZANTINE EMPIRE (3-0-3)(F,SU)(Alternate years). A survey of the history and culture of the Byzantine Empire from the foundation of Constantinople by the Christian emperor Constantine in A.D. 330 to the final conquest of the empire by the Ottoman Turks in 1453. Provides a detailed study of the eastern Greek Orthodox imperial successor civilization to the ancient Roman empire, and its role in converting and civilizing the peoples of eastern Europe and Anatolia in the middle ages.

HIST 305 MEDIEVAL EUROPE (3-0-3)(F/S)(Alternate years). 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.

HIST 306 POPULAR RELIGION AND CULTURE IN EUROPE, 800-1600 (3-0-3)(F/S)(Alternate years). 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 and upper-division standing.

HIST 308 THE AGE OF RENAISSANCE AND REFORMATION (3-0-3)(F/S)(Alternate years). 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.

HIST 309 THE OLD REGIME AND THE FRENCH REVOLUTION (3-0-3)(F/S)(Alternate years). 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.

HIST 311 HISTORY OF IRELAND (3-0-3)(F/S)(Alternate years). The development of the concept of an Irish nationality, the effects of the long colonial relationship between Ireland and Great Britain, the struggle for Irish independence, the contemporary Ulster issue.

HIST 312 HISTORY OF ENGLAND TO THE GLORIOUS REVOLUTION (3-0-3)(F/S)(Alternate years). Survey of the political, economic, cultural and religious history of England from Roman antiquity to the Glorious Revolution of 1688.

HIST 313 HISTORY OF ENGLAND IN MODERN TIMES (3-0-3)(F/S)(Alternate years). 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.

HIST 314 MODERN FRANCE SINCE 1815 (3-0-3)(F/S)(Alternate years). Exploring the different ways in which the French people grappled with their revolutionary heritage and attempted to put "Liberty, Fraternity, Equality" into action. Recommended: HIST 102.

HIST 315 MODERN GERMANY: UNIFICATION AND REUNIFICATION (3-0-3)(F/S)(Alternate years). Germany from 1800 through the present, including the emergence of German nationalism, debates over what the German nation should mean, and the different "Germanys" that have existed over the past two centuries. Recommended: HIST 102.

HIST 318 THE HISTORY OF THE BALKANS SINCE 1453 (3-0-3)(S)(Alternate years). 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.

HIST 319 EASTERN EUROPE SINCE THE SECOND WORLD WAR (3-0-3)(F)(Alternate years). Examines the history of Eastern Europe since the Second World War. The war itself, the communist takeover in Eastern Europe, and the overthrow of communist regimes will be the focus of the course.

HIST 322 SAINTS AND SINNERS: WOMEN IN CHRISTIANITY (3-0-3)(F/S)(Alternate years). 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.

HIST 323 THE HISTORY OF MARRIAGE AND THE FAMILY IN EUROPE (3-0-3)(F/S)(Alternate years). 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: HIST 101 and HIST 102.

HIST 324 THE HISTORY OF WOMEN IN EARLY MODERN AND MODERN EUROPE (3-0-3)(F/S)(Alternate years). 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.

HIST 325 HISTORY OF SOCIALISM (3-0-3)(F/S)(Alternate years). Survey of European egalitarian ideas and movements. Emphasis given to nineteenth and twentieth centuries.

HIST 331 EUROPEAN EXPLORATION OF NORTH AMERICA (3-0-3)(F/S)(Alternate Years). 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.

HIST 332 COLONIAL AMERICA (3-0-3)(F/S)(Alternate Years). 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 or PERM/INST.

HIST 334 CIVIL WAR AND RECONSTRUCTION (3-0-3)(F/S)(Alternate years). A study of the origins of the conflict between the states, the encounter, and the problems of reunification. PREREQ: HIST 111 or PERM/INST.

HIST 338 DIPLOMATIC HISTORY OF THE UNITED STATES (3-0-3)(F/S)(Alternate years). Development of diplomacy from the foundation of the republic to the present with emphasis on the emergence and continuance of the United States as a world power, and the impact of domestic developments upon the formulation of foreign policies. HIST 111, 112 recommended.

HIST 341 THE INDIAN IN UNITED STATES HISTORY (3-0-3)(F/S)(Alternate years). 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.

HIST 342 WESTERN AMERICA (3-0-3)(F/S)(Alternate years). 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.

HIST 343 IDAHO AND THE PACIFIC NORTHWEST (3-0-3)(F/S)(Alternate years). Political, economic, and social development of the Pacific northwest with emphasis on the people, customs, and institutions of Idaho. HIST 111 recommended.

HIST 344 WOMEN IN AMERICA FROM THE COLONIAL ERA TO THE PRESENT (3-0-3)(F)(Alternate years)(Diversity). 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.

HIST 346 WOMEN IN AMERICA: THE WESTERN EXPERIENCE (3-0-3)(F/S)(Alternate years). 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.

HIST 347 AMERICA IN THE 1960s (3-0-3)(F/S)(Alternate years). 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." Recommended: HIST 112.

HIST 348 AMERICAN RELIGIOUS HISTORY (3-0-3)(F/S)(Alternate years). 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. Recommended: HIST 111 and HIST 112.

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: ECON 201 and ECON 202 or PERM/INST.

HIST 351 NORTH AMERICAN ENVIRONMENTAL HISTORY (3-0-3)(F/S)(Alternate Years). 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: HIST 111/211 or HIST 112/212.

HIST 361 COLONIAL LATIN AMERICA (3-0-3)(F)(Alternate years). 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. Recommended HIST 102.

HIST 362 MODERN LATIN AMERICA (3-0-3)(S)(Alternate years). 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. Recommended: HIST 112.

HIST 363 HISTORY OF MEXICO (3-0-3)(F/S)(Alternate years). 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. Recommended: HIST 361.

HIST 366 HISTORY OF MODERN AFRICA: 1750-PRESENT (3-0-3)(F)(Alternate years). 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.

HIST 368 THE ISLAMIC MIDDLE EAST (3-0-3)(F)(Alternate years). 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.

HIST 369 THE MODERN MIDDLE EAST (3-0-3)(S)(Alternate years). 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.

HIST 371 HISTORY OF MODERN SOUTH ASIA: INDIA, PAKISTAN AND BURMA FROM 1750 TO THE PRESENT (3-0-3)(F/S)(Alternate years). 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.

HIST 372 THE HISTORY OF MODERN SOUTHEAST ASIA (3-0-3)(S)(Alternate years). 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.

HIST 373 THE HISTORY OF MODERN CHINA (3-0-3)(S)(Alternate years). 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.

HIST 374 CRITICAL ISSUES IN MODERN ASIAN HISTORY (3-0-3)(F)(Alternate years). Examines how the historic rural/urban relations, gender issues, and interregional trade and conflict throughout Asia have changed since World War II.

HIST 375 LIVING RELIGIONS: A COMPARATIVE HISTORICAL STUDY (3-0-3)(F)(Alternate years). 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. Recommended: HIST 121.

HIST 376 GLOBAL ENVIRONMENTAL HISTORY (3-0-3)(F/S)(Alternate years). 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: Any one of the following: HIST 101/201, HIST 102/202, HIST 111/211, HIST 112/212, or HIST 121.

HIST 380 COLLOQUIUM IN EUROPEAN HISTORY (3-0-3). 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: Upper-division standing.

HIST 381 COLLOQUIUM IN U.S. HISTORY (3-0-3). Intensive studies of a particular period, topic, or problem in American history. Reading and discussion format. Consult current class schedule for specific selections offered each term. May be repeated. PREREQ: Upper-division standing.

HIST 382 COLLOQUIUM IN REGIONAL HISTORY (3-0-3). Intensive studies of a particular period, topic, or problem in regional history. Reading and discussion format. Consult current class schedule for specific selections offered each term. May be repeated. PREREQ: Upper-division standing.

HIST 480 SEMINAR IN EUROPEAN HISTORY (3-0-3). Critical analysis of source materials and historical literature on a topic of restricted scope in European history. Preparation and presentation of research papers. Consult current class schedule for specific selections offered each term. Seminar may be repeated. PREREQ: Upper-division standing.

HIST 481 SEMINAR IN U.S. HISTORY (3-0-3). Critical analysis of source materials and historical literature on a topic of restricted scope in American history. Preparation and presentation of research papers. Consult current class schedule for specific selections offered each term. Seminar may be repeated. PREREQ: Upper-division standing.

HIST 482 SEMINAR IN REGIONAL HISTORY (3-0-3). Critical analysis of source materials and historical literature on a topic of restricted scope in regional history. Preparation and presentation of research papers. Consult current class schedule for specific selections offered each term. May be repeated. PREREQ: Upper-division standing.

HIST 498 HISTORY SEMINAR (3-0-3).

LATIN

Lower Division

LATIN 211 ELEMENTARY CLASSICAL LATIN LANGUAGE AND LITERATURE (3-2-4)(F)(Alternate years). 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; and a survey of Roman republican literature with illustrative reading passages excerpted from the ancient authors. Recommended: HIST 302 Ancient Rome.

LATIN 212 ADVANCED CLASSICAL LATIN LANGUAGE AND LITERATURE (3-2-4)(S)(Alternate years). 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; and a survey of Roman imperial literature with translations and analysis of extended historical and literary texts from the ancient authors. PREREQ: LATIN 211, or a year of high school Latin.

Upper Division

LATIN 323 EARLY CHURCH LATIN LITERATURE (2-2-3)(F)(Alternate 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. Recommended: HIST 303 Early Christianity. PREREQ: LATIN 212 or equivalent, or PERM/INST.

LATIN 324 MEDIEVAL LATIN LITERATURE (2-2-3)(S)(Alternate 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. Recommended: HIST 305 Medieval Europe. PREREQ: LATIN 212 or equivalent, or PERM/INST.

LATIN 491 ADVANCED LATIN TUTORIAL: AUGUSTAN AGE (2-2-3)(F/SU)(Alternate 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. Recommended: HIST 480/580 European Seminar on Augustus and the Golden Age of Rome. PREREQ: PERM/INST.

LATIN 492 ADVANCED LATIN TUTORIAL: CONSTANTINIAN ERA (2-2-3)(F/SU)(Alternate 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. Recommended: HIST 480/580 European Seminar on Constantine and the Late Roman Empire. PREREQ: PERM/INST.

History of Art and Visual Culture—see Department of Art

Honors College

Driscoll Hall
http://www.boisestate.edu/honors
Telephone 208 426-1208
Fax 208 426-1247

Director and Professor: Craig Hemmens
Activities Coordinator: Chris Hyer.

Statement of Purpose

The Honors College at Boise State University provides exceptional undergraduate students with a challenging interdisciplinary curriculum and a variety of social, cultural, and service activities. Open to majors from all academic fields, the goal of the college is to enrich each student's educational experience by creating a community of scholars in the midst of a metropolitan research university. By nourishing a close working relationship between honors students and some of Boise State's most acclaimed faculty members, the college encourages the spirited exchange of ideas among people who share a commitment to excellence.

Admission and Retention

The Honors College welcomes applications from students in all university departments. Admission to the college is based on an evaluation of the applicant's academic record. Both a 3.5 high-school GPA and a score at or above the 90th percentile on the combined portion of the ACT or SAT are required for students applying on the basis of high school graduation. A cumulative GPA of at least 3.5 for a minimum of 15 college credits is required for all others, including continuing students, transfers, and students whose admission to Boise State has not been based upon regular high school graduation and ACT or SAT scores.

A cumulative GPA of at least 3.3 is required for retention during the freshman year. After attaining sophomore standing, a cumulative GPA of at least 3.5 is a fixed requirement for retention in the Honors College. Any student whose GPA falls below the required minimum for his or her class standing for two consecutive semesters will be dropped from the college. Students who complete no honors work for two consecutive semesters also will be withdrawn unless they can demonstrate, to the satisfaction of the Director, continuing progress toward the completion of Honors graduation requirements. Rare exceptions to Admission and Retention requirements may be granted by the upon written petition by the student, justifying the exception on the basis of other evidence of academic potential. The petition must be accompanied by a letter of support from a previous college instructor. Such an exception shall apply for one semester only; during that semester the student must achieve the minimum criteria for retention.

To apply, contact the Honors College Office, Driscoll Hall, or telephone 208 426-1208.

Honors Courses

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 by 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.

Honors Course Descriptions The following courses are offered regularly. With approval of the University Curriculum Committee, the Honors Colloquium may satisfy certain core requirements.

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 in order to receive a letter grade.

HONORS 198, 298, 398, 498 HONORS SEMINAR (1 credit)(F/S). Small group discussion of issues built around a specific theme. Because themes change from semester to semester, seminar may be repeated. Consult current Schedule of Classes for specific seminars offered each semester.

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 current Schedule of Classes 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 honors. 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 field work; or a creative activity if appropriate to the discipline as determined by the department involved and the director of the Honors College.

In addition to these courses, various academic departments offer honor sections of Area I, II, III core courses.

Honors Graduation

Honors/Distinguished Honors Requirements	
Course Number and Title	**Credits**
HONORS 198 or 298 Honors Seminar HONORS 391 Prospectus Writing for Senior Honors Project HONORS 491 Senior Honors Project	1 1 3
A minimum of 15 credit hours selected from any combination of honors sections of English composition and Area I, II, and III core courses Students who have completed most or all of their composition and core courses before entering the program must consult with the program director for approval of alternative ways of fulfilling this requirement. With written approval other honors courses may be counted toward these 15 credits.	15
A minimum of 6 credit hours selected from HONORS 392 Honors Colloquia	6
Total	26

To graduate with honors, a student must have a cumulative undergraduate GPA of 3.5 in addition to meeting the requirements listed above.

Distinguished Honors may be granted to a student whose cumulative undergraduate GPA is at least 3.75 and whose records of academic and co-curricular activities indicate outstanding performance in both areas. Co-curricular activities may include, but are not limited to: publication of undergraduate work, presentations at regional or national conferences, and outstanding service in the Honors Student Association. In selecting students for graduation with Distinguished Honors, particular attention will be given to evidence that a student has demonstrated independence and initiative in pursuing academic goals.

Additional Academic Opportunities

The Honors College is both directly and indirectly involved in several other programs that benefit its students, including independent study and internships. In addition, it provides summer fellowships for students who wish to conduct study abroad or research.

While the Honors College aims at enrichment more than acceleration, an honors student may graduate in less than the usual four years through advanced placement, summer reading, and extra courses.

Scholarships

Several renewable Brown Honors Scholars awards in amounts worth up to $17,000 are available each year for incoming honors students. The college also has various other scholarships for transfer and continuing students. The honors staff assists students in applying for prestigious graduate and undergraduate scholarships such as the Rhodes, Marshall, and Truman.

Humanities—see Department of English

Human Resource Management—see Department of Management

Illustration—see Department of Art

Department of Information Technology and Supply Chain Management

College of Business and Economics

Business Building, Room 308 Telephone 208 426-1181
http://itscm.boisestate.edu/ Fax 208 426-1135
e-mail: itscm@boisestate.edu

Chair and Associate Professor: Sharon Tabor. *Professors:* Anson, P. Fry, Minch, Shannon, Wojtkowski, G., Wojtkowski, W. *Associate Professors:* Chenoweth, Nagasundaram. *Assistant Professors:* Corral, Gattiker, Terpend. *Special Lecturer:* Cavaiani, S. Fry.

Degrees Offered

- B.B.A., B.S., and Minor in Information Technology Management
- B.B.A. and B.S. in Supply Chain Management

Department Statement

Information Technology is a principle driver of business productivity and profitability, and an enabler of organizational process improvement and innovation. Information systems play a central role in gathering, storing, and manipulating data to support internal and external business processes and decision making in organizations.

The Information Technology Management (ITM) program emphasizes a balance between human, technical, and organizational components in the application of information technology and the analysis of business functional requirements. It prepares students to design, implement and integrate information systems and technology into organizations. Careers in ITM include business analysis, application development, systems analysis and design, database administration, information security, networking, and technology management. Most courses are held in computer lab/classrooms to facilitate hands-on applications of concepts and help students gain experience with state-of-the-art technology.

Two tracks allow students to specialize in either Application Development or Network Management. The Application Development track is appropriate for students who are interested in interfacing with functional business units to define their needs, then create or modify Information Systems. The Network Management track targets students interested in network design, implementation, administration, and management, using established and evolving technologies to support organization communication and data transmission requirements.

The Supply Chain Management (SCM) program integrates operational processes from functional areas of the business with analytical techniques and skills necessary to manage the movement of products and services through the organization. Classes emphasize real applications and interaction with practitioners from local businesses and government.

The SCM major prepares students for work with both quality and customer issues in service and manufacturing areas involving supply-chain management, manufacturing scheduling and lean manufacturing systems, inventory control, and uses of technology and quantitative modeling and forecasting. Students can add depth to their study through internships and independent study.

Degree Requirements

Information Technology Management Bachelor of Business Administration	
Course Number and Title	**Credits**
ENGL 101-102 English Composition	6
Area I—see page 45 for list of approved courses	
Area I core courses	6
Area II—see page 45 for list of approved courses	
ECON 201 Principles of Macroeconomics ECON 202 Principles of Microeconomics Area II core course other than economics Area II core course other than economics	3 3 3 3
Area III—see page 45 for list of approved courses	
Area III core course—(MATH 143 or MATH 147) Area III core course—(MATH 160 or MATH 170) Area III core course in a lab science	3-5 4 4
Nonbusiness courses: Must include courses in at least two of the three following disciplines: **Arts and Humanities** (art, foreign language, humanities, literature, music, philosophy, theatre arts); **Social Sciences** (anthropology, communication, criminal justice, ED-CIFS, geography, history, political science, psychology, social work, sociology); **Natural Sciences and Mathematics** (biological sciences, physical sciences, mathematics). No more than 3 credits may be fitness activity courses. **The total of Area III and nonbusiness electives must be at least 34 credits.**	19-21
ACCT 205 Introduction to Financial Accounting ACCT 206 Introduction to Managerial Accounting	3 3
BUSCOM 201 Business Communication	3
BUSSTAT 207-208 Statistical Techniques for Decision Making I & II	6
FINAN 303 Principles of Finance	3
GENBUS 202 The Legal Environment of Business GENBUS 441 Business, Government, and Society GENBUS 450 Business Policies	3 3 3
ITM 225 Introduction to Programming ITM 305-305L Information Technology & Network Essentials & Lab ITM 310 Business Intelligence ITM 315 Database Systems ITM 320 Systems Planning & Analysis ITM 325 Web Application Development I ITM 455 Information Security	3 4 3 3 3 3 3
MGMT 301 Leadership Skills	3
MKTG 301 Principles of Marketing	3
SCM 345 Principles of Operations Management SCM 435 Project Management	3 3
Two of the following ITM electives: ITM 425 Web Application Development II ITM 465 Interaction Design ITM 490 Senior Project (Network Management Emphasis only) ITM 493 Internship ITM 495 Current Topics in Information Technology Management ITM 496 Independent Study ITM 497 Special Topics SCM 366 Supply Chain Modeling SCM 380 Quality Management SCM 408 Lean Supply Chain and Operational Control SCM 416 Procurement, Logistics, and Supply Chain Integration	6

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Information Technology Management (continued)	
Development Emphasis	
ITM 410 Enterprise Systems ITM 490 Senior Project: Practice of Information Technology	3 3
Total	129
Network Management Emphasis	
ITM 360 Advanced Networking Concepts ITM 460 Network Management	3 3
Total	129
NOTES: Please refer to the B.B.A., or B.S. requirements in Chapter 11 for explanation. No more than 3 credits of internship (ITM 493) may be used toward ITM degree requirements. All courses used toward the Information Technology Management Major must have a grade of 'C-' or better. A minimum GPA of 2.5 overall and a minimum GPA of 2.7 in the ITM and SCM courses are required. ITM or SCM courses older than 5 years may not apply toward major requirements.	

For students majoring in another field, the department offers a minor in Information Technology Management.

Each student seeking this minor must apply for and be accepted into the Information Technology Management minor program.

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**
ITM 225 Introduction to Programming ITM 305-305L Information Technology & Network Essentials & Lab ITM 310 Business Intelligence ITM 315 Database Systems ITM 320 Systems Planning & Analysis ITM 325 Web Application Development I ITM 455 Information Security	3 4 3 3 3 3 3
Total	22
NOTE: All course prerequisites are enforced for students pursuing the ITM minor. Computer Literacy must be demonstrated either by completing ITM 104, ITM 105, and ITM 106 with a C or above, or by passing the COBE Computer Placement Exam for ITM 104, ITM 105, ITM 106. 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 Bachelor of Business Administration	
Course Number and Title	**Credits**
ENGL 101-102 English Composition	6
Area I—see page 45 for list of approved courses	
Area I core courses	6
Area II—see page 45 for list of approved courses	
COMM 101 Fund of Speech Communication ECON 201 Principles of Macroeconomics ECON 202 Principles of Microeconomics Area II core course other than economics	3 3 3 3
Area III—see page 45 for list of approved courses	
Area III core course—(MATH 143 or MATH 147) Area III core course—(MATH 160 or MATH 170) Area III core course in a lab science	3-5 4 4

—continued—

Supply Chain Management (continued)	
Nonbusiness courses: Must include courses in at least two of the three following disciplines: **Arts and Humanities** (art, foreign language, humanities, literature, music, philosophy, theatre arts); **Social Sciences** (anthropology, communication, criminal justice, ED-CIFS, geography, history, political science, psychology, social work, sociology); **Natural Sciences and Mathematics** (biological sciences, physical sciences, mathematics). No more than 3 credits may be fitness activity courses. **The total of Area III and nonbusiness electives must be at least 32 credits.**	19-21
ACCT 205 Introduction to Financial Accounting ACCT 206 Introduction to Managerial Accounting	3 3
BUSCOM 201 Business Communication	3
BUSSTAT 207-208 Statistical Techniques for Decision Making I & II	6
FINAN 303 Principles of Finance	3
GENBUS 202 The Legal Environment of Business GENBUS 441 Business, Government, and Society GENBUS 450 Business Policies	3 3 3
ITM 310 Business Intelligence ITM 315 Database Systems	3 3
MGMT 301 Leadership Skills	3
MKTG 301 Principles of Marketing	3
SCM 345 Principles of Operations Management SCM 366 Supply Chain Modeling SCM 380 Quality Management SCM 408 Lean Supply Chain and Operational Control SCM 416 Procurement, Logistics, and Supply Chain Integration SCM 435 Project Management	3 3 3 3 3 3
Four of the following Supply Chain Management electives ACCT 314 Cost Accounting INTBUS 320 Managing in A Global Economy INTBUS 443 Importing and Exporting Procedures INTBUS 445 International Trade and Investment Law ITM 320 Systems Planning and Analysis MGMT 415 The Art of Bargaining MKTG 422 New Product Development SCM 493 Internship SCM 495 Current Topics in Operations Management SCM 496 Independent Study SCM 497 Special Topics	12
Electives to total 128	1-5
Total	128

NOTES: *Please refer to the B.B.A. or B.S. requirements in Chapter 11 for explanation.
The department recommends that each supply chain management major take SCM 493 Internship during the student's junior year for a minimum of 3 credits of electives.
Computer Literacy must be demonstrated either by completing ITM 104, ITM 105, and ITM 106 with a 'C-' or above, or passing the COBE Computer Placement Exam. Completion of this requirement is a prerequisite for BUSSTAT 207, and SCM 345.
All courses used toward the Supply Chain Management degree must have a grade of 'C-' or better.

Course Offerings

See page 65 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.**

BUSSTAT—BUSINESS STATISTICS

Lower Division

BUSSTAT 207 STATISTICAL TECHNIQUES FOR DECISION MAKING I (3-0-3)(F/S). 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. PREREQ: MATH 143, and computer competency is required. Computer competency may be demonstrated by ITM 104 and ITM 105 or successful completion of a computer placement exam for these courses.

BUSSTAT 208 STATISTICAL TECHNIQUES FOR DECISION MAKING II (3-0-3)(F/S). 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 nonparametric statistics. Established computer software is used, when appropriate, to assist in the learning process. PREREQ: BUSSTAT 207 and MATH 160 and computer competency is required. Computer competency must be demonstrated by ITM 104 and ITM 105 or successful completion of a computer placement exam for these courses.

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). Introduces computer and technology concepts and develops skills using current home/office and Internet productivity software. Basic functions of the operating system, basic to intermediate word-processing skills, introduction to hardware, software, Internet and networking concepts for use in the workplace, educational settings, and the home.

ITM 105 SPREADSHEET TOPICS (1-1-1)(F,S). Basic to intermediate spreadsheet skills development, hardware, software, Internet and networking concept materials for use in the workplace, educational settings, and the home. PREREQ: ITM 104 or successful completion of a 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. PREREQ: ITM 104 and ITM 105 or successful completion of a 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.

Upper Division

ITM 305 INFORMATION TECHNOLOGY AND NETWORK ESSENTIALS (3-0-3)(F/S). Topics include basic concepts of computer hardware, operating systems, data and file management, networking standards, protocols, topologies, architectures, and telecommunications principles. PREREQ: ITM 104, ITM 105, ITM 106, or COBE Computer Placement Exam. COREQ: ITM 305-L.

ITM 305L INFORMATION TECHNOLOGY AND NETWORK ESSENTIALS LAB (0-3-1)(F/S). Hands-on exercises and activities to supplement lecture component and expand IT concepts into workplace skills. 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 or ENGL 202.

ITM 315 DATABASE SYSTEMS (3-0-3)(F/S). Introduction to design, development and administration issues of relational databases and DBMS, and their applications to real-business problems. Special emphasis on SQL, logical data design techniques, XML, and rapid prototyping of end user business applications.

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: ITM 310. COREQ: ITM 305, ITM 305-L, and ITM 315.

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: ITM 305 and one of the following programming courses: ITM 225, COMPSCI 115, COMPSCI 117, COMPSCI 119, COMPSCI 125. COREQ: ITM 315.

ITM 360 ADVANCED NETWORKING CONCEPTS (3-0-3)(F/S). Continuing study of networking technologies for wired and wireless networks. Discussion of wide area networks and routing, network planning and documentation, and Windows and Linux server administration. Hands-on exercises emphasize local area network technologies, routing, and administration. PREREQ: ITM 305 and ITM 305L.

ITM 410 ENTERPRISE SYSTEMS (3-0-3)(F/S). Technologies, issues and strategies of systems designed for enterprise-wide use. Includes enterprise applications (such as ERP, CRM, data warehousing), enterprise databases, application integration approaches, system implementation, business and IT planning, e-Business strategy. PREREQ: ITM 320, SCM 345..

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: ITM 325.

ITM 455 INFORMATION SECURITY (3-0-3)(F/S). In-depth exploration of security issues and challenges in organizations. Topics include the need for security, policy development and implementation, risk assessment, security threats and vulnerabilities, security controls and tools. Exercises explore defense against security threats, secure application development, and network design issues. PREREQ: ITM 305 and ITM 305L.

ITM 460 NETWORK MANAGEMENT (3-0-3)(F/S). Technical and managerial view of network operations and how increasingly complex network architectures are managed. Various current network management tools, security and access policies, commonly used processes, and business policies will be explored. PREREQ: ITM 360.

ITM 465 INTERACTION DESIGN (3-0-3)(F/S). Principles and practices underlying the design, development and evaluation of highly usable interactive systems, devices and appliances. Emphasizes a human-centered approach, drawing on disciplines such as psychology, cognitive science and design. Evaluation of interactive appliances (such as cell phones and PDAs), computer based applications and websites to learn to design prototypes founded on sound interaction design principles. PREREQ: Junior standing and ITM 225.

ITM 490 SENIOR PROJECT: PRACTICE OF INFORMATION TECHNOLOGY (3-0-3)(F/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: ITM 320, ITM 325, ITM 410 or ITM 360 and SCM 435.

ITM 493 INTERNSHIP (Variable Credit)(F/S). Field learning in information technology in an applied environment under supervision of both a manager and professor. PREREQ: 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. Maybe repeated for credit. PREREQ: 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). 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: ACCT 206, BUSSTAT 207, BUSCOM 201 (or ENGL 202), ECON 202, and ITM 104 - ITM 105 (or COBE Computer Placement Exam).

SCM 366 SUPPLY CHAIN MODELING (3-0-3)(F/S). Introduction to selected optimization models and simulation techniques for managing the supply chain. Topics include developing, solving, and analyzing optimization and simulation models related to supply chain production, inventory, and distribution decisions. PREREQ: SCM 345.

SCM 380 QUALITY MANAGEMENT (3-0-3)(F/S). Introduces the philosophy and theory of quality; the process of planning and designing for quality; the basic tools of quality and business process improvement used by organizations in the U.S. and around the world. Emphasis will be placed on understanding how the tools are implemented to aid in quality and process improvement in supply chain. PREREQ: SCM 345.

SCM 408 LEAN SUPPLY CHAIN AND OPERATIONAL CONTROL (3-0-3)(F/S). Integration of lean manufacturing principles and techniques throughout the supply chain. Introduction to manufacturing, planning and control concepts and techniques. PREREQ: SCM 345.

SCM 416 PROCUREMENT, LOGISTICS, AND SUPPLY CHAIN INTEGRATION (3-0-3)(F/S). Procurement topics including supplier selection, negotiation, supplier relationship management, and ethical issues. Logistics issues including transportation, warehousing, international outsourcing, and configuring supply chains. PREREQ: 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: ITM 310, 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: SCM 345.

SCM 495 CURRENT TOPICS IN SUPPLY CHAIN MANAGEMENT (3-0-3)(F/S)(On demand). Introduction to key topics in supply chain management currently receiving heavy emphasis in business practitioner journals and/or in academic literature. May be repeated for credit. PREREQ: SCM 345.

Interdisciplinary Studies in Aging—see Aging

Interdisciplinary Studies Program

College of Arts and Sciences

Education Building, Room 601 Telephone 208 426-1414
http://artsci.boisestate.edu/ Fax 208 426-3006
e-mail: ids@boisestate.edu

Director: Daryl E. Jones, Ph.D.

The Bachelor of Arts and Bachelor of Science Degrees in Interdisciplinary Studies are offered by Boise State University and administered by the College of Arts and Sciences.

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 associate dean of the College of Arts and Sciences or a designee serves as the director of the Interdisciplinary Studies Program. Overseeing the program is a university-wide Interdisciplinary Studies Committee consisting of one member from each academic school or college. The director of Interdisciplinary Studies serves as the chair of that committee. Each student in the program has an Advisory Committee composed of at least two, but no more than three, faculty members from the disciplines making up the interdisciplinary program. The student's Advisory Committee is responsible for helping the student select his or her particular plan of study and recommends to the Interdisciplinary Studies Committee that the plan of study be accepted. The Interdisciplinary Studies Committee is responsible for approving the members of the student's Advisory Committee, the student's plan of study, and the student's prospectus for the final project.

Students may withdraw from the program by presenting a letter of notification or by taking appropriate action to enter a program leading to another degree.

Admission Requirements

General admission to the university is required but does not guarantee admission to the Interdisciplinary Studies Program. To apply for admission to the Interdisciplinary Studies Program, an undergraduate must satisfy the following prerequisites:

1. Completion of at least 30 credit hours with a minimum GPA of 2.75.
2. Completion of the university's general English Composition requirement.
3. Completion with a C or better of at least one university core course in each of areas I, II, III.

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.

3. 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, 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
Bachelor of Arts or Bachelor of Science

Course Number and Title	Credits
ENGL 101-102 English Composition	6
Area I—see page 45 for list of approved courses	
Area I core course in one field	3
Area I core course in a second field	3
Area I core course in a third field	3
Area I core course in any field (B.A. must complete three credits of Area I core literature.)	3
Area II—see page 45 for list of approved courses	
Area II core course in one field	3
Area II core course in a second field	3
Area II core course in a third field	3
Area II core course in any field (B.A. must complete three credits of Area II history.)	3
Area III—see page 45 for list of approved courses	
Area III core course in mathematics	3-5
Area III core course in a second field	4
Area III core course in any field	4
Bachelor of Arts Area I or II electives	
Area I or II electives These courses do not have to be selected from the approved core list, but are to be chosen from anthropology, art, communication, criminal justice economics, ED-CIFS, foreign language, geography, history, humanities, literature, music, philosophy, political science, psychology, social work, sociology, & theatre arts.	9
Bachelor of Science Area II or III electives	
Area II or III electives These courses do not have to be selected from the approved core list, but are to be chosen from anthropology, biology, chemistry, communication, criminal justice, economics, ED-CIFS, engineering, geography, geosciences, history, mathematics, physical science, physics, political science, psychology, and social work, and sociology.	9
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
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 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 128 credits 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.	2-21
Total	128

Course Offerings

See page 65 for a definition of the course-numbering system.

INTDIS—INTERDISCIPLINARY STUDIES

Upper Division

INTDIS 491 PROJECT (3-0-3)(F/S). 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.

International Business Program

College of Business and Economics

Business Building, Room 201 Telephone 208 426-4205
http://cobe.boisestate.edu/ib/ Fax 208 426-3637
e-mail: intbus@boisestate.edu

Director and Professor: Nancy Napier. *Contributing Faculty:* Baughn, Buchanan, D. Christensen, Frankle, McCain, Neupert, Ray, Schooley, Twight, White.

Degrees Offered

- B.B.A., B.A., B.S. and Minor, in International Business

Program Statement

The International Business Degree combines business, history, political science, and language courses to provide students with a strong interdisciplinary degree. As INTBUS 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 area will make graduates more attractive to employers.

The 24-credit INTBUS minor is offered for business students who seek more specialized courses in the international area. To obtain the INTBUS minor, nonbusiness students must also complete additional general requirements for a business minor.

Academic advisors come from 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.

INTBUS 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 INTBUS are strongly encouraged to consult an advisor early.

Degree Requirements

International Business Bachelor of Business Administration	
Course Number and Title	**Credits**
ENGL 101-102 English Composition	6
Area I—see page 45 for list of approved courses	
Language 201-202 Please refer to the B.B.A., B.A., or B.S. requirements in Chapter 11 for explanation. International Business majors are assumed to have basic language skills to enter at the 201 level. Students lacking these skills should take language 101-102 in their language of interest to satisfy the prerequisites. These credits could come out of the Electives section.	6-8
Area II	
ECON 201 Principles of Macroeconomics ECON 202 Principles of Microeconomics HIST 102 History of Western Civilization **OR** HIST 121 Eastern Civilization POLS 231 International Relations	3 3 3 3
Area III—see page 45 for list of approved courses	
Area III core course—(MATH 143 or MATH 147) Area III core course—(MATH 160 or MATH 170) Area III core course in a lab science	3-5 4 4
ACCT 205 Introduction to Financial Accounting ACCT 206 Introduction to Managerial Accounting	3 3
BUSCOM 201 Business Communication	3
BUSSTAT 207-208 Statistical Techniques for Decision Making I & II	6
ECON 317 International Economics	3

—continued—

International Business (continued)	
FINAN 303 Principles of Finance FINAN 430 International Finance	3 3
GENBUS 202 The Legal Environment of Business GENBUS 450 Business Policy	3 3
INTBUS 320 Managing a Global Economy INTBUS 443 Importing and Exporting Procedures **OR** INTBUS 445 Trade and Investment Law	3 3
International Business Career Experience: an internship, course or overseas experience, approved by advisor.	3
ITM 310 Business Intelligence	3
MGMT 301 Leadership Skills MGMT 334 International Management	3 3
MKTG 301 Principles of Marketing MKTG 430 International Marketing	3 3
SCM 345 Principles of Operations Management	3
Business electives: one of the following business focus areas: 1. Marketing Minor: MKTG 307 Customer Behavior, MKTG 321 Professional Selling, MKTG 315 Marketing Research, MKTG elective 2. Finance Minor: FINAN 410 Working Capital Management, FINAN 411 Capital Budgeting and Planning, FINAN 450 Investment Management, FINAN 420 or 440 or 451 3. Economics Minor: ECON 303 Intermediate Microeconomics, ECON 305 Intermediate Macroeconomics, ECON 315 Global Economic Development (alternate years); ECON elective 4. Management, Entrepreneurship Minor: MGMT-ENT 320 Entrepreneurial Skills, MGMT-ENT 420 New Venture Creation, MGMT-ENT 421 Managing an Emerging Business, ECON 321 or FINAN 410 5. *Human Resources: MGMT-HR 305 Human Resource Management, MGMT-HR 330 Human Resource Law, MGMT-HR 340 Employee and Labor Relations, MGMT-HR 406 Compensation and Benefits *With one more course selected from COMM 307, COMM 390/SOC 390, GENBUS 441, or MGMT-HR 408, the student could complete a Human Resource Management minor.	12
History course (300- or 400-level) The course should relate to the language of interest. Choose from HIST 309, HIST 313, HIST 314, HIST 315, HIST 319, HIST 320, HIST 321, HIST 362, HIST 363, HIST 366, HIST 368, HIST 369, HIST 371, HIST 372, HIST 373, HIST 374, HIST 480.	3
Language Competency: One of the following courses relating to business in the chosen language: e.g., SPANISH 305, GERMAN/FRENCH 307, SPANISH/GERMAN 480 or a 300 level or higher course that has a business focus, as approved by advisor. **OR** An advanced (300-level) FORLNG course, as approved by advisor.	3
Political science course (300- or 400-level) The course should relate to the language of interest. Choose from POLS 311, POLS 321, POLS 324, POLS 328, POLS 329, POLS 333, POLS 421, POLS 429. With permission of an advisor, international students can substitute a course on U.S. political science.	3
Electives to total 128 credits	11-15
Total	128
Upper-division majors are assumed to have spreadsheet and word processing skills. Students lacking these skills should take ITM 104 and 105.	

International Business Minor	
Course Number and Title	**Credits**
ECON 317 International Economics	3
FINAN 430 International Finance	3
INTBUS 320 Managing in a Global Economy	3
MGMT 334 International Management	3
MKTG 430 International Marketing	3
POLS 231 International Relations	3
One of the following history courses: HIST 362 Modern Latin America HIST 371 History of South Asia HIST 423 European Diplomatic History	3
One of the following political science courses: POLS 321 Introduction to Comparative Politics POLS 329 Politics of Industrialized Nations POLS 333 Comparative Government & Politics of Developing Nations	3
Total	24

Course Offerings

See page 65 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, 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.

INTBUS—INTERNATIONAL BUSINESS

INTBUS 320 MANAGING IN A GLOBAL ECONOMY (3-0-3)(F/S). An overview of (1) the international business environment facing business firms, whether engaged in business overseas or not; (2) country characteristics and conditions affecting firms that conduct business overseas; and (3) firm-level decisions about strategy, entry into overseas markets, and functional areas including marketing, finance and personnel.

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.

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: INTBUS 320.

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: INTBUS 320.

INTBUS 445-445G 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. PREREQ: Senior/Graduate 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: 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/Japanese Studies Minor—see Department of Modern Languages and Literatures
Journalism—see Department of Communication

Department of Kinesiology

College of Education

Kinesiology Building, Room 209 Telephone 208 426-4270
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Chair and Professor: Ron Pfeiffer. *Professors:* Hoeger, Petlichkoff, Ransdell, Vaughn. *Associate Professors:* Bell, Gibson, McChesney, Shimon, Spear. *Assistant Professors:* Jones, Lucas. *Special Lecturers:* Armstrong, Craner, Mondin, Moore, Satterfield.

Degrees Offered

- B.S. in Athletic Training
- B.S. in Exercise Science, Biomechanics Emphasis
- B.S. in Exercise Science, Exercise Physiology Emphasis
- B.S. in Exercise Science, Fitness Evaluation and Programming Emphasis
- B.S. in Health Promotion
- B.S. in K-12 Physical Education
- M.S. in Exercise and Sport Studies (See the *BSU Graduate Catalog.*)

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.

Admission to Upper-Division Standing

Students must be formally admitted to the program before enrolling in upper-division classes in the Department of Kinesiology. To qualify for admission to upper division, students must complete lower-division requirements with a grade of C or better, and achieve a cumulative 2.50 GPA. Applications must be submitted **NO LATER THAN** October 1 (spring admission) or March 1 (fall admission). Forms can be picked up from academic advisors and should be returned to K-209, along with a copy of your transcript.

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 program advances the conceptual framework of reflective practitioners who adjust their teaching approaches and learning environment to the needs and backgrounds of their students. Before enrolling in upper-division classes, students must (a) pass the PRAXIS I, and (b) be formally admitted to both the Department of Kinesiology (see Admission to upper-division standing) and to secondary teacher education (See Department of Curriculum, Instruction, and Foundational Studies.) Candidates who complete this program will meet the Idaho Beginning Teacher Standards and be recommended for state certification.

K-12 Physical Education Bachelor of Science	
Course Number and Title	**Credits**
ENGL 101-102 English Composition	6
Area I—see page 45 for list of approved courses	
Area I core course in one field	3
Area I core course in a second field	3
Area I core course in a third field	3
Area I core course in any field	3

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K-12 Physical Education (continued)	
Area II—see page 45 for list of approved courses	
ED-CIFS 201 Foundations of Education	3
PSYC 101 General Psychology	3
Area II core course in communication	3
Area II core course in sociology	3
Area III—see page 45 for list of approved courses	
BIOL 227 Human Anatomy and Physiology	4
Area III core course in math	3-5
Area III core course in any field	4
EDTECH 202 Educational Technology—Classroom Applications	3
*ED-CIFS 302 Learning and Instruction	4
*ED-LTCY 444 Content Literacy for Secondary Students	3
NOTE: *You must apply for admission to secondary teacher education in order to enroll in these upper-division education courses. Completion of all requirements for graduation with a secondary education option may require more than 128 credit hours. See "Department of Curriculum, Instruction, and Foundational Studies" for more information.	
KINES 101 Foundations of Kinesiology	2
KINES 140 Personal Health	3
KINES 141 CPR for Professional Rescuer & First Aid (or equivalent)	1
KINES 180 Introduction to Coaching	2
KINES 251 Introduction to Teaching Physical Education	2
KINES 270, 271 Applied Anatomy and Lab	3
KINES 301 Evaluation in Physical Education	3
KINES 305 Adapted Physical Education	3
KINES 330, 331 Exercise Physiology and Lab	3
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	3
KINES 375, 376 Human Growth and Motor Learning and Lab	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 Elementary Student Teaching	8
KINES 461 Secondary Student Teaching	8
Required Instructional Strand	
KINES 107 Instructional Gymnastics	1
KINES 112 Fitness Foundations	1
KINES 116 Instructional Rhythmic Skills/Dance	1
KINES 435 Instructional Applied Resistance Training	1
Individual/Dual Instructional Strand (Select Three)	3
KINES 102 Instructional Tennis	
KINES 103 Instructional Indoor Racket Activities	
KINES 113 Instructional Golf	
KINES 119 Instructional Track and Field	
Nontraditional Instructional Strand (Select Three)	3
KINES 104 Instructional Bowling and Archery	
KINES 105 Instructional Yoga & Pilates	
KINES 106 Instructional Aerobic Dance Activities	
KINES 114 Instructional Outdoor Education	
KINES 118 Aquatics	
KIN-ACT Electives	
Team Sports Instructions Strand (Select Three)	3
KINES 110 Instructional Volleyball	
KINES 111 Instructional Basketball	
KINES 115 Instructional Recreational Games	
KINES 117 Instructional Soccer	
Electives to total 128 credits	1-3
Total	128

Exercise Science, Biomechanics Emphasis develops an understanding of the mechanical principles of human movement in sport and exercise. It is designed to prepare students for graduate study in biomechanics, biomedical engineering, or ergonomics.

Exercise Science, Biomechanics Emphasis Bachelor of Science	
Course Number and Title	**Credits**
ENGL 101-102 English Composition	6
Area I—see page 45 for list of approved courses	
Area I core course in one field	3
Area I core course in a second field	3
Area I core course in a third field	3
Area I core course in any field	3
Area II—see page 45 for list of approved courses	
PSYC 101 General Psychology	3
Area II core course in communication	3
Area II core course in sociology	3
Area II core course in any field	3
Area III	
BIOL 227-228 Human Anatomy and Physiology	8
MATH 170 Calculus I	4
COMPSCI 115 Introduction to C **OR** COMPSCI 117 Introduction to C++	2-3
ENGR 120 Introduction to Engineering	3
ENGR 210 Engineering Statics	3
ENGR 220 Engineering Dynamics	3
KINES 101 Foundations of Kinesiology	2
KINES 112 Fitness Foundations	1
KINES 140 Personal Health	3
KINES 141 CPR for Professional Rescuer & First Aid (or equivalent)	1
KINES 270, 271 Applied Anatomy and Lab	3
KINES 301 Evaluation in Physical Education	3
KINES 305 Adapted Physical Education	3
KINES 330, 331 Exercise Physiology and Lab	3
KINES 363 Exercise Psychology	3
KINES 370, 371 Biomechanics and Lab	3
KINES 375, 376 Human Growth and Motor Learning and Lab	3
KINES 432 Conditioning Procedures	3
KINES 493 Internship	6
MATH 175 Calculus II	4
MATH 275 Multivariable and Vector Calculus	4
PHYS 211, 211L Physics I with Calculus and Lab	5
Sport and fitness activities (KIN-ACT)	3
Upper-division electives to total 40 credits Recommended electives: ENGR 330, ENGR 331, ENGR 350, MATH 333, MATH 360, ME 486, PHYS 342	13
Electives to total 128 credits	6-7
Total	128

Exercise Science, Exercise Physiology Emphasis focuses on the scientific principles of training and exercise. Included is an emphasis on the biological sciences in preparation for graduate study in exercise physiology.

Exercise Science, Exercise Physiology Emphasis Bachelor of Science	
Course Number and Title	**Credits**
ENGL 101-102 English Composition	6
Area I—see page 45 for list of approved courses	
Area I core course in one field	3
Area I core course in a second field	3
Area I core course in a third field	3
Area I core course in any field	3
Area II—see page 45 for list of approved courses	
PSYC 101 General Psychology	3
Area II core course in communication	3
Area II core course in sociology	3
Area II core course in any field	3
Area III	
BIOL 227-228 Human Anatomy and Physiology	8
MATH 143 and 144 or MATH 147	5
BIOL 301 Cell Biology	3
CHEM 111, 111L-112, 112L General Chemistry I and II with Labs	9
CHEM 307, 308 Organic Chemistry I and Lab **OR**	5
CHEM 301, 302 Survey of Organic Chemistry and Lab	
CHEM 431, 432 Biochemistry and Lab	5
HLTHST 207 Nutrition	3
HLTHST 220 Cardiopulmonary Renal Physiology	3
KINES 101 Foundations of Kinesiology	2
KINES 112 Fitness Foundations	1
KINES 140 Personal Health	3
KINES 141 CPR for Professional Rescuer & First Aid (or equivalent)	1
KINES 270, 271 Applied Anatomy and Lab	3
KINES 301 Evaluation in Physical Education	3
KINES 305 Adapted Physical Education	3
KINES 330, 331 Exercise Physiology and Lab	3
KINES 363 Exercise Psychology	3
KINES 370, 371 Biomechanics and Lab	3
KINES 375, 376 Human Growth and Motor Learning and Lab	3
KINES 432 Conditioning Procedures	3
KINES 493 Internship	4
PHYS 111 General Physics	4
PSYC 295 Statistical Methods	3
ZOOL 401 Human Physiology	4
Computer applications course	3
Sport and fitness activities (KIN-ACT)	3
Upper-division electives to total 40 credits Recommended electives: BIOL 205, BIOL 300, CHEM 309, CHEM 310, HLTHST 300, PHYS 307, RESPCARE 225, RESPCARE 226, ZOOL 409.	1
Electives to total 128 credits	4
Total	128

Exercise Science, Fitness Evaluation and Programming Emphasis is designed to prepare students with knowledge and competencies to conduct fitness programs in corporate, hospital, commercial, and public agency settings. Completion of this program will prepare graduates for the American College of Sports Medicine and National Strength and Conditioning Association certification exams.

Exercise Science, Fitness Evaluation and Programming Emphasis Bachelor of Science	
Course Number and Title	**Credits**
ENGL 101-102 English Composition	6
Area I—see page 45 for list of approved courses	
Area I core course in one field	3
Area I core course in a second field	3
Area I core course in a third field	3
Area I core course in any field	3
Area II—see page 45 for list of approved courses	
PSYC 101 General Psychology	3
Area II core course in communication	3
Area II core course in sociology	3
Area II core course in any field	3
Area III	
BIOL 227-228 Human Anatomy and Physiology	8
MATH 143 and 144 or MATH 147	5
CHEM 101-102 Essentials of Chemistry	8
HLTHST 101 Medical Terminology	3
HLTHST 207 Nutrition	3
HLTHST 220 Cardiopulmonary Renal Physiology	3
KINES 101 Foundations of Kinesiology	2
KINES 112 Fitness Foundations	1
KINES 140 Personal Health	3
KINES 141 CPR for Professional Rescuer & First Aid (or equivalent)	1
KINES 144 Stress Management	1
KINES 220 Introduction to Athletic Injuries	3
KINES 270, 271 Applied Anatomy and Lab	3
KINES 293 Internship	2
KINES 301 Evaluation in Physical Education	3
KINES 305 Adapted Physical Education	3
KINES 330, 331 Exercise Physiology and Lab	3
KINES 363 Exercise Psychology	3
KINES 370, 371 Biomechanics and Lab	3
KINES 375, 376 Human Growth and Motor Learning and Lab	3
KINES 432 Conditioning Procedures	3
KINES 436 Exercise Testing and Prescription	3
KINES 493 Internship	3
PHYS 111 General Physics	4
Computer applications course	3
Sport and fitness activities (KIN-ACT)	3
Aging Electives Recommended Aging electives: BIOL 300, HLTHST 410, KINES 430, KINES 572	3
Exercise Specialist Electives Recommended Exercise Specialist electives: KINES 335, KINES 434, take the National Strength and Conditioning Exam (2 credits) and/or the American College of Sports Medicine exam (2 credits)	3
Upper-division electives to total 40 credits Recommended Upper-division electives: BIOL 300, ECON 202, HLTHST 410, HLTHST 449, HLTHST 480, MKTG 301, MKTG 306, PSYC 331.	7
Electives to total 128 credits	2
Total	128

Health Promotion is designed to help individuals and communities facilitate optimal health through increasing knowledge, changing behaviors, and creating environments that support positive health practices. The curriculum includes coursework in kinesiology, health sciences, psychology, and business.

Health Promotion Bachelor of Science	
Course Number and Title	**Credits**
ENGL 101-102 English Composition	6
Area I—see page 45 for list of approved courses	
Area I core course in one field	3
Area I core course in a second field	3
Area I core course in a third field	3
Area I core course in any field	3
Area II—see page 45 for list of approved courses	
ECON 202 Principles of Microeconomics	3
PSYC 101 General Psychology	3
Area II core course in communication	3
Area II core course in sociology	3
Area III	
BIOL 227-228 Human Anatomy and Physiology	8
CHEM 101 Essentials of Chemistry	4
MATH 143 College Algebra	3
ACCT 205 Introduction to Financial Accounting	3
ENGL 202 Technical Communication	3
HLTHST 101 Medical Terminology	3
HLTHST 109 Drugs: Use and Abuse	3
HLTHST 207 Nutrition	3
Two of the following: HLTHST 217 Human Disease Mechanisms HLTHST 304 Public Health HLTHST 480 Epidemiology	6
KINES 112 Fitness Foundations	1
KINES 140 Personal Health	3
KINES 141 CPR for Professional Rescuer & First Aid (or equivalent)	1
KINES 144 Stress Management	1
KINES 240 Foundations of Health Promotion	2
KINES 305 Adapted Physical Education	3
KINES 330, 331 Exercise Physiology and Lab	3
KINES 340 Community and Public Health	3
KINES 342 Health Promotion Methods	3
KINES 363 Exercise Psychology	3
KINES 440 Health Promotion Programming	3
KINES 442 Consumer Health	3
KINES 493 Internship	6
MKTG 301 Principles of Marketing	3
PSYC 295 Statistical Methods	3
Two of the following: PSYC 261 Human Sexuality PSYC 331 Psychology of Health PSYC 357 Introduction to Counseling Skills PSYC 438 Community Psychology	6
Computer applications course	3
Electives in sport and fitness activities (KIN-ACT)	2
Upper-division electives to total 40 credits Recommended electives: BIOL 300, CHEM 102, COMM 221, COMM 390, KINES 143, KINES 145, KINES 220, MKTG 306, PSYC 309, PSYC 310, PSYC 313, SOC 325.	0-4
Electives to total 128 credits	0-12
Total	128

Boise State Athletic Training Education Program focuses on the care and prevention of injuries to athletes. The program is accredited by the Commission on Accreditation of Athletic Training Education. Completion of this program prepares the graduates to sit for the Board of Certification's (BOC) national certification examination.

Admission to the Boise State-Athletic Training Education Program is on a competitive basis. In order to be considered for admission students must:

1. Be admitted to Upper-Division Standing within the Department of Kinesiology.
2. Submit a Boise State-Athletic Training Education Program application, letters of recommendation, and resume by the second Monday in April.
3. Take the Boise State-Athletic Training Education Program admissions examination.
4. Submit an essay describing why they chose a career in athletic training and submit an ATEP Technical Standards for Admissions form.
5. Complete a pre-admission interview.

The Boise State-ATEP curriculum includes both an academic and clinical instructional component. The clinical portion of the program is designed to be completed in four semesters, and is supervised by clinical instructors. For more information, contact the Boise State-Athletic Training Education Program Director in the Department of Kinesiology, 208-426-1481.

Athletic Training Bachelor of Science	
Course Number and Title	**Credits**
ENGL 101-102 English Composition	6
Area I—see page 45 for list of approved courses	
Area I core course in one field	3
Area I core course in a second field	3
Area I core course in a third field	3
Area I core course in any field	3
Area II—see page 45 for list of approved courses	
PSYC 101 General Psychology	3
Area II core course in communication	3
Area II core course in sociology	3
Area II core course in any field	3
Area III	
BIOL 227-228 Human Anatomy and Physiology	8
MATH 143 and 144 or MATH 147	5
CHEM 111, 111L-112, 112L General Chemistry I and II with Labs	9
HLTHST 101 Medical Terminology	3
HLTHST 207 Nutrition	3
HLTHST 300 Pathophysiology	4
HLTHST 306 Pharmacotherapeutics	3
KINES 101 Foundations of Kinesiology	2
KINES 112 Fitness Foundations	1
KINES 120 Training Room Procedures	1
KINES 121 Taping and Wrapping Techniques in Athletic Training	1
KINES 140 Personal Health	3
KINES 141 CPR for Professional Rescuer & First Aid (or equivalent)	1
KINES 220 Introduction to Athletic Injuries	3
KINES 270, 271 Applied Anatomy and Lab	3
KINES 301 Evaluation in Physical Education	3
KINES 305 Adapted Physical Education	3
KINES 321 Athletic Training Clinical Instruction I	1
KINES 322 Athletic Training Clinical Instruction II	1
KINES 324 Injury Evaluation	4
KINES 326 Modalities in Athletic Training	3
KINES 330, 331 Exercise Physiology and Lab	3
KINES 365 Social Psychology of Sport & Physical Activity	3
KINES 370, 371 Biomechanics and Lab	3
KINES 375, 376 Human Growth and Motor Learning and Lab	3

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Athletic Training (continued)	
KINES 421 Athletic Training Clinical Instruction III	1
KINES 422 Athletic Training Clinical Instruction IV	1
KINES 424 Theory and Application of Therapeutic Exercise	3
KINES 426 Organization and Administration of Athletic Training	3
KINES 432 Conditioning Procedures	3
KINES 493 Internship	12
PHYS 111 General Physics	4
Approved computer literacy course	3
Total	137

Health Education Minor Certification Endorsement meets the Idaho State Department of Education requirements for a minor endorsement on the secondary teaching certificate in the subject area of health. A certificated teacher holding this endorsement would be allowed to teach health in grades 6-12.

Health Education Minor Certification Endorsement	
Course Number and Title	**Credits**
HLTHST 109 Drugs: Use and Abuse	3
HLTHST 207 Nutrition	3
KINES 112 Fitness Foundations	1
KINES 140 Personal Health	3
KINES 141 CPR for Professional Rescuer & First Aid	1
KINES 142 First Aid Instructor Training course	1
KINES 445 Secondary School Health Methods and Administration	3
PSYC 261 Human Sexuality	3
Electives selected from the following: ENVHLTH 100, HLTHST 217, HLTHST 410, HLTHST 433, HLTHST 444, KINES 143, KINES 144, KINES 145, KINES 340, KINES 430, KINES 442, PSYC 213, PSYC 331	2-3
Total	20-21

National Standards for Athletic Coaching developed by the National Association for Sport and Physical Education reflect the fundamental competencies that society should expect of athletic coaches. The following curriculum is designed to provide course study consistent with those standards, and is recommended for any prospective coach planning to enter the profession.

Athletic Coaching	
Course Number and Title	**Credits**
KINES 180 Introduction to Coaching	2
KINES 141 CPR for Professional Rescuer & First Aid	1
KINES 220 Introduction to Athletic Injuries	3
KINES 360 Psychology of Coaching	2
KINES 375, 376 Human Growth and Motor Learning & Lab	3
KINES 432 Conditioning Procedures	3
KINES 493 Internship in Interscholastic Athletics	3
One of the following: KINES 280 Coaching Baseball KINES 281 Coaching Basketball KINES 282 Coaching Football KINES 288 Coaching Track and Field KINES 289 Coaching Volleyball	2
Total	19

Course Offerings

See page 65 for a definition of the course-numbering system.

KINES—KINESIOLOGY

Lower Division

KINES 101 FOUNDATIONS OF KINESIOLOGY (2-0-2)(F/S). An introduction to the profession, including the interaction of humanities, exercise physiology, biomechanics, psycho-social aspects, human growth and motor development as related to the field of kinesiology.

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. Eight-week course. PREREQ: Restricted to Kinesiology 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. Eight-week course. PREREQ: Restricted to Kinesiology majors.

KINES 104 INSTRUCTIONAL BOWLING AND ARCHERY (0-3-1)(F/S). Instruction and practice in archery and bowling, emphasizing fundamental skills, safety, rules, strategies, teaching progressions and learning cues. Eight-week course. Special fee required. PREREQ: Restricted to Kinesiology 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. Eight-week course. PREREQ: Restricted to Kinesiology majors.

KINES 106 INSTRUCTIONAL AEROBIC DANCE ACTIVITIES (0-3-1)(F/S). Instruction and practice in a variety of aerobic dance activities, emphasizing fundamental skills, teaching progressions and learning cues. Eight-week course. PREREQ: Restricted to Kinesiology 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. Eight-week course. PREREQ: Restricted to Kinesiology majors.

KINES 108 LIFEGUARD TRAINING (0-2-1)(F/S). Designed to teach skills necessary to become an American Red Cross certified lifeguard. Strong swimming skills recommended. Special fee required.

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. Eight-week course. PREREQ: Restricted to Kinesiology 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. Eight-week course. PREREQ: Restricted to Kinesiology majors.

KINES 112 FITNESS FOUNDATIONS (0-3-1)(F/S). Instruction and practice in a variety of fitness activities, emphasizing cardiovascular endurance, strength, flexibility. Eight-week course. PREREQ: Restricted to Kinesiology 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. Eight-week course. Special fee required. PREREQ: Restricted to Kinesiology 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. Eight-week course. PREREQ: Restricted to Kinesiology 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. Eight-week course. PREREQ: Restricted to Kinesiology 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. Eight-week course. PREREQ: Restricted to Kinesiology 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. Eight-week course. PREREQ: Restricted to Kinesiology majors.

KINES 118 AQUATICS (0-3-1)(F/S). Swimming and basic water safety skills, emphasizing teaching progressions and learning cues. Eight-week course. PREREQ: Restricted to Kinesiology majors.

KINES 119 INSTRUCTIONAL TRACK AND FIELD (0-3-1)(F/S). Instruction and practice in track and field activities emphasizing fundamental skills, rules, strategies, teaching progressions and learning cues. Eight-week course. PREREQ: Restricted to Kinesiology majors.

KINES 120 TRAINING ROOM PROCEDURES (0-2-1)(F/S). Instruction in clinical aspects of campus athletic training programs, emphasizing practical application of basic Athletic Training principles. A prerequisite for admission to the Athletic Training Education Program.

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 122 PRACTICUM ATHLETIC TRAINING I (0-2-2)(F/S). Introduction to practical application of theories in athletic training including prevention, recognition, immediate care, treatment, organization and administration, and professional development and responsibility. (Pass/Fail).

KINES 140 PERSONAL HEALTH (3-0-3)(F/S). Covers nutrition, diseases, health needs, services, drugs, family living, and personality structure and development. Enhances student adjustment toward effective functioning in a changing environment.

KINES 141 CPR FOR PROFESSIONAL RESCUER & FIRST AID (1-1-1)(F/S). Professional rescuer skills needed to respond appropriately to breathing, cardiac, and first aid emergencies. Instruction in automated external defibrillator (AED). Special fee required. (Pass/Fail).

KINES 142 FIRST AID INSTRUCTOR TRAINER COURSE (1-2-1)(S)(Odd years). Instruction in methods of teaching CPR and standard first aid. Special fee required.

KINES 143 (HLTHST 143) WEIGHT MANAGEMENT (1-0-1)(F/S). A health-focused approach to weight management is presented. Behavioral changes in the areas of nutrition and exercise are identified. Students engage in a behavior change project. May be taken for Kinesiology or Health Studies credit, but not both. (Pass/Fail.)

KINES 144 (HLTHST 144) STRESS MANAGEMENT (1-0-1)(F/S). Exercises to help students identify the various sources of stress in their lives, expand their repertoire of appropriate stress management techniques, and develop an action plan for the effective management of stress. May be taken for Kinesiology or Health Studies credit, but not both. (Pass/Fail.)

KINES 145 (HLTHST 145) FAMILY SKILL BUILDING STRATEGIES (1-0-1)(F/S). Identify and practice positive parenting skills that help build protective factors to reduce the risk that children will develop addiction/substance abuse problems. May be taken for Kinesiology or Health Studies credit, but not both. (Pass/Fail.)

KINES 180 INTRODUCTION TO COACHING (2-0-2)(F/S). An overview of the various elements that are critical to the coaching process, including coaching philosophy, sport psychology, practice planning, conditioning principles, injury prevention/rehabilitation, and sport management. Successful completion leads to American Sport Education Program (ASEP) Level I certification.

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.

KINES 240 FOUNDATIONS OF HEALTH PROMOTION (2-0-2)(F/S). An overview course covering the fundamental concepts, theories and direction of the health promotion field. Career opportunities and future trends in health promotion will be explored.

KINES 251 INTRODUCTION TO TEACHING PHYSICAL EDUCATION (2-0-2)(F/S). Foundational pedagogical strategies and theory. Basic tenets of sound teaching will be discussed, modeled, and applied to a variety of physical education settings. 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 280 COACHING BASEBALL (2-0-2)(S)(Alternate years). Instruction in methods of coaching baseball with emphasis on fundamentals, strategy, conditioning, and practical application. PREREQ: Sophomore standing.

KINES 281 COACHING BASKETBALL (2-0-2)(F). Instruction in methods of coaching basketball with emphasis on fundamentals, strategy, conditioning, and practical application. PREREQ: Sophomore standing.

KINES 282 COACHING FOOTBALL (2-0-2)(S). Instruction in methods of coaching football with emphasis on fundamentals, strategy, conditioning, and practical application. PREREQ: Sophomore standing.

KINES 288 COACHING TRACK AND FIELD (2-0-2)(S)(Alternate years). Instruction in methods of coaching track and field with emphasis on fundamentals, conditioning, meet organization/ administration, and practical application. PREREQ: Sophomore standing and KINES 119.

KINES 289 COACHING VOLLEYBALL (2-0-2)(F). Instruction in methods of coaching volleyball with emphasis on fundamentals, strategy, conditioning, and practical application. PREREQ: Sophomore standing.

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 EVALUATION IN PHYSICAL EDUCATION (2-2-3)(F/S). Instruction in philosophy of evaluation, test construction/evaluation/administration, statistical analysis and interpretation of test scores, and computer applications for statistical analysis. PREREQ: Admission to upper-division standing.

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: Admission to upper-division standing.

KINES 321 ATHLETIC TRAINING CLINICAL INSTRUCTION I (0-2-1)(F). Instruction in a variety of clinical psychomotor skills as delineated by the Commission on Accreditation of Allied Health Education Programs. Includes instruction in first-aid procedures, specialized taping and wrapping techniques, splinting, bracing, and ambulatory techniques. (Pass/Fail.) PREREQ: Admission into the clinical instruction component of the Athletic Training Education Program.

KINES 322 ATHLETIC TRAINING CLINICAL INSTRUCTION II (0-2-1)(S). Instruction in a variety of clinical psychomotor skills as delineated by the Commission on Accreditation of Allied Health Programs. Includes clinical instruction in regional assessment and documentation procedures for musculoskeletal injuries, neurologic injuries and diseases commonly incurred by athletes. (Pass/Fail.) PREREQ: KINES 321.

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: Upper-division standing in Kinesiology and admission to the Athletic Training Education Program.

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 upper-division standing, and the Athletic Training Education Program.

KINES 330 EXERCISE PHYSIOLOGY (2-0-2)(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: Admission to upper-division standing. COREQ: KINES 331.

KINES 331 LABORATORY FOR EXERCISE PHYSIOLOGY (0-2-1)(F/S). The laboratory to accompany KINES 330-330G. COREQ: KINES 330.

KINES 335 STRATEGIES FOR EXERCISE LEADERSHIP (1-2-2)(F/S). Instruction and participation in the delivery of exercise lessons for groups and individuals including class management, organization, instructional methodology, and evaluation. Preparation for the American Council on Exercise (ACE) Personal Training Exam. PREREQ: Admission to upper-division standing.

KINES 340 COMMUNITY AND PUBLIC HEALTH (3-0-3)(F/S)(Alternate years). Examines the breadth of community health information, historical perspectives, current health trends, health care delivery systems, and environmental health and safety issues. PREREQ: KINES 240 and Admission to upper-division standing.

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 and junior standing in Kinesiology.

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. PREREQ: Upper-division standing in Kinesiology and admission to Teacher Education. COREQ: KINES 352 and ED-CIFS 302.

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). PREREQ: Upper-division standing in Kinesiology and admission to Teacher Education. COREQ: KINES 351 and ED-CIFS 302.

KINES 355 ELEMENTARY SCHOOL HEALTH AND PHYSICAL EDUCATION CURRICULUM AND INSTRUCTION (3-0-3)(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. 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)(F/S). Issues related to the differentiation between physical activity and exercise, benefits and determinates of physical activity, and models for involvement in physical activity as well as theories of change. Focus on cognitive and social psychological perspectives. PREREQ: Admission to upper-division standing.

KINES 365 SOCIAL PSYCHOLOGY OF SPORT AND PHYSICAL ACTIVITY (3-0-3)(F/S). 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: Admission to upper-division standing.

KINES 370 BIOMECHANICS (2-0-2)(F/S). Anatomical and mechanical considerations applied to human motion in sport and exercise. PREREQ: Admission to upper-division standing. COREQ: KINES 371.

KINES 371 LABORATORY FOR BIOMECHANICS (0-2-1)(F/S). The laboratory to accompany KINES 370-370G. COREQ: KINES 370.

KINES 375 HUMAN GROWTH AND MOTOR LEARNING (2-0-2)(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: Admission to upper-division standing. COREQ: KINES 376.

KINES 376 LABORATORY FOR HUMAN GROWTH AND MOTOR LEARNING (0-2-1)(F/S). The laboratory to accompany KINES 375-375G. 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 KINES or ZOOL credit but not both. PREREQ: BIOL 191-192 or BIOL 227-228 or PERM/INST.

KINES 421 ATHLETIC TRAINING CLINICAL INSTRUCTION III (0-2-1)(F). Instruction in a variety of psychomotor skills as delineated by the Commission on Accreditation of Allied Health Programs. Instruction covers the indications, contraindications and clinical application of

therapeutic modalities utilized by Athletic Trainers in the treatment of injuries to athletes. Basic rehabilitative protocols for commonly injured joints are also covered. (Pass/Fail.) PREREQ: KINES 322.

KINES 422 ATHLETIC TRAINING CLINICAL INSTRUCTION IV (0-2-1)(S). Instruction includes a review of all aspects of Athletic Training that have been covered in the Boise State-Athletic Training Education Program. This includes a review of the organization and administration of Athletic Training, as well as the education and counseling of athletes. There is also instruction in the techniques of prevention, evaluation, and treatment of common injuries/illnesses. This class provides an environment where the Student Athletic Trainer may practice and be scrutinized on the application of various clinical Athletic Training skills. (Pass/Fail.) 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 upper-division standing and the Athletic Training Education Program.

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 upper-division standing, acceptance to the Athletic Training Education Program.

KINES 430 PHYSICAL ACTIVITY AND AGING (3-0-3)(F/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.

KINES 432 CONDITIONING PROCEDURES (2-2-3)(F/S). Instruction in conditioning procedures with emphasis on program planning, objectives, exercise analysis, and prescription. PREREQ: KINES 330, 331.

KINES 435 INSTRUCTIONAL APPLIED RESISTANCE TRAINING (0-3-1)(F/S). Applied exercise procedures with emphasis on exercise technique, application of origin, insertion and action to specific stretching and resistance exercises, knowledge of multiple modes of each action, formation of exercise by body area and specific student teaching involvement. Eight-week course. PREREQ: Admission to upper-division standing.

KINES 436 EXERCISE TESTING AND PRESCRIPTION (2-2-3)(F/S). 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, 331.

KINES 440 HEALTH PROMOTION PROGRAMMING (3-0-3)(F). Utilizes the principles of health promotion program development to plan, implement, and evaluate a health program. PREREQ: KINES 240 and upper-division standing in Kinesiology.

KINES 442 CONSUMER HEALTH (3-0-3)(F)(Even years). Instruction in factors involved in the selection and evaluation of health services and products, emphasizing quackery awareness, consumer protection laws and organizations, and health insurance considerations. PREREQ: Upper-division standing.

KINES 445 SECONDARY SCHOOL HEALTH METHODS AND ADMINISTRATION (3-0-3)(F/S). Issues, trends, and current administrative practices in public school health education. Emphasis placed on topics sequencing, individual and social health problems, and methods of teaching health-related topics. PREREQ: Admission to upper-division.

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. Includes field experience. PREREQ: Upper-division standing in Kinesiology and admission to the Professional Year. COREQ: KINES 452 and ED-LITCY 444.

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). PREREQ: Upper-division standing in Kinesiology and admission to Professional Year. COREQ: KINES 451 and ED-LTCY 444.

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: Admission to upper-division 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. PREREQ: Admission to upper-division standing.

KINES 460 PROFESSIONAL YEAR ELEMENTARY TEACHING EXPERIENCE (0-20-8)(F,S). Supervised student teaching in an elementary school. Students are placed with a master physical education teacher for one half-semester (full-time) under the supervision of university faculty. Attendance at seminars is required. (Pass/Fail.) PREREQ: Admission to Professional Year. COREQ: KINES 461

KINES 461 PROFESSIONAL YEAR SECONDARY TEACHING EXPERIENCE (0-20-8)(F,S). Supervised student teaching in either a junior or senior high school. Students are placed with a master physical education teacher for one half-semester (full-time) under the supervision of university faculty. Attendance at seminars is required. (Pass/Fail.) PREREQ: Admission to Professional Year. COREQ: KINES 460.

KINES 493 INTERNSHIP IN PHYSICAL EDUCATION (1-6 Credits)(F/S). Practical field experience in physical education-related areas. Opportunity to apply knowledge and theory learned in classroom to practical setting. Required in some options. PREREQ: Admission to upper-division 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)(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). 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)(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 133 BOWLING (0-2-1)(F/S). Instruction and participation in bowling for development of fundamental skills, rules, handicaps, and scorekeeping. Special fee required. May be repeated, maximum four credits. (Pass/Fail.)

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). 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 WINTER CAMPING (0-2-1)(S). Coping with the mountain winter environment in comfort and safety. Review of equipment for snow camping, construction of snow shelters, avalanche avoidance and rescue, winter survival techniques, and map and compass use. Includes an overnight snow camping trip. Special fee required. (Pass/Fail.)

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 157 CAVE EXPLORATION (0-2-1)(F/S). Instruction includes information about types of caves, formations, formation growth, essential equipment, and utilization of proper safety techniques. Conservation of natural resources is emphasized as part of cave exploration field trips. Special fee required. (Pass/Fail.)

KIN-ACT 158 RECREATIONAL OUTDOOR PHOTOGRAPHY (0-2-1)(F/S). The mechanics of camera and flash systems are covered along with troubleshooting, use of shutter speed, aperture, and composition. The course consists of four (4) classroom sessions plus weekend field trips to various recreational settings where hiking is involved. Art students may not substitute this class for another photography course required as part of their major. (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. Several evening rides as well as an overnight trip in the backcountry are scheduled. 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 PERSONAL FITNESS AND WEIGHT CONTROL I (0-2-1). Introduction to the essential components of total fitness with prescribed fitness programs for individual needs. May be repeated, maximum eight credits. (Pass/Fail.)

KIN-ACT 165 WEIGHT TRAINING I (0-2-1). 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). 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 171 BADMINTON I (0-2-1). Instruction and participation in badminton to encourage skill development, understanding, and appreciation of the game. May be repeated, maximum four credits. (Pass/Fail.)

KIN-ACT 172 RACQUETBALL I (0-2-1)(F/S). Instruction and participation will emphasize basic techniques and skills of racquetball with emphasis on playing procedures. Students furnish racquets and balls. Protective eyewear required. May be repeated, maximum four credits. (Pass/Fail).

KIN-ACT 173 TENNIS I (0-2-1)(F/S). 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 182 SOFTBALL I (0-2-1). Instruction and participation in softball 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). 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 233 BOWLING II (0-2-1). Instruction and participation in bowling for development of intermediate skills and techniques. Special fee required. May be repeated, maximum four credits. (Pass/Fail.) PREREQ: KIN-ACT 133.

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 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 272 RACQUETBALL II (0-2-1)(F/S). Instruction and participation in racquetball for development of intermediate skills and techniques. Students furnish racquets and balls. Protective eye wear is required. May be repeated, maximum four credits. (Pass/Fail.) PREREQ: KIN-ACT 172.

KIN-ACT 273 TENNIS II (0-2-1). 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 BSU 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 BSU Department of Athletics-approved sports. Coach's approval required. May be repeated, maximum four credits. (Pass/Fail.)

Latin Language and Literature Minor—see Department of History

Law Advising, Pre—see Pre-Law Advising

Leadership Studies Minor

College of Business and Economics

Student Leadership Program, Student Union 2nd Floor Telephone: 208 426-2877
http://leadership.boisestate.edu/minor Fax: 208 426-1391
e-mail: mahitakazawa@boisestate.edu

Coordinator: Mahi Takazawa

Program Statement

The Leadership Studies Minor is a 21-credit interdisciplinary minor. The minor is based on a broad, cross-disciplinary philosophy of leadership. The short-term goal is to prepare students for leadership roles and responsibilities on campus, in careers, community and family. The long-term goal is to positively transform individuals, organizations, communities (both locally and globally), fields (professions and disciplines), and systems (both culture and paradigms).

The minor consists of a focused core curriculum (12 credits) consisting of courses that cover leadership theories, applications, leadership skills, and synthesis through applied and experiential learning. The minor is also flexible with its supporting interdisciplinary curriculum of electives (9 credits) being selected from a variety disciplines with a leadership focus.

Leadership Studies Minor	
Course Number and Title	**Credits**
LEAD 101 Foundations in Leadership LEAD 201 Applied Leadership LEAD 493 Internship in Leadership Studies LEAD 495 Senior Capstone in Leadership Studies	3 3 3 3
Electives* Above 200-level approved leadership studies courses from a variety of disciplines. Contact program office for a list of approved electives.	9
Total	21
* No more than 6 credit hours total of independent study, internship, practica, or workshop may be applied toward the Leadership Studies Minor.	

Course Offerings

See page 65 for a definition of the course-numbering system.

LEAD—LEADERSHIP STUDIES

Lower Division

LEAD 101 FOUNDATIONS OF LEADERSHIP (3-0-3)(F/S). Basic leadership theory, historical paradigms, and concepts. Personal leadership development through the exploration of leadership identity, values, and ethics; understanding of others through multicultural appreciation; and fostering active citizenship through community-based projects.

LEAD 201 APPLIED LEADERSHIP (3-0-3)(F/S). Applied and enhanced leadership skills. Group leadership development through the exploration of different leadership styles and assessment of personal leadership competencies; refinement of effective communication skills and ethics; understanding of group processes; and refinement of group leadership competencies. PREREQ: LEAD 101.

Upper Division

LEAD 301 CURRENT ISSUES IN LEADERSHIP (3-0-3)(S). Current trends and issues in leadership relating to education, business/industry, government, and non-profits. Analysis of professional ethics. Experiential learning supplemented by selected readings and dialogues with University and local community leaders. PREREQ: LEAD 201.

LEAD 493 INTERNSHIP IN LEADERSHIP STUDIES (V-V-3)(F/S). Leadership practice in a variety of settings in the community and attend a weekly Internship Seminar. (Pass/Fail.) PREREQ: Leadership Studies Minor, junior standing, and PERM/INST.

LEAD 495 SENIOR CAPSTONE IN LEADERSHIP STUDIES (3-0-3)(S). Synthesize and analyze leadership knowledge, skills and experiences through leadership problem-based dissertation, comprehensive exam, and portfolio development and review. PREREQ: Senior standing, Leadership Studies Minor. LEAD 493, and PERM/INST.

LEAD 496 INDEPENDENT STUDY IN LEADERSHIP (Variable Credit)(F/S). PREREQ: Upper-division standing, Leadership Studies Minor, LEAD 201, and PERM/INST.

Linguistics—see Department of English

Department of Literacy

College of Education

Education Building, Room 510 Telephone: 208 426-2862
Advising Office, Room 508 Telephone: 208 426-3962
http://education.boisestate.edu/literacy Fax: 208 426-2810

Chair and Professor: Stan Steiner. *Professors:* Armstrong, Stewart. *Associate Professors:* Dubert, Gregory, Martin. *Assistant Professors:* Cahill.

Degrees Offered

- M.A. in Education with emphasis in Reading (See the *BSU Graduate Catalog*)
- Endorsements:
  Reading K-8, 6-12, or K-12

Department Statement

The Literacy faculty is committed to offering courses that enhance a balanced reading and language arts program. To achieve this balance we recommend that candidates in teacher education obtain as many reading courses towards the Idaho State Reading Endorsement as possible.

NOTE: Refer to the Department of Curriculum, Instruction, and Foundational Studies for complete requirements toward admission to elementary and secondary teacher education.

Reading Pre-Endorsement Students majoring in Elementary Education who pursue the pre-endorsement sequence in Reading receive a broader base of content and experience in the area of literacy. While the courses listed below count towards a reading endorsement they will not fulfill all of the necessary requirements. Please check with an advisor for additional information.

Reading Pre-Endorsement	
Course Number and Title	**Credits**
ED-LTCY 343 Reading Diagnosis and Intervention ED-LTCY 345 Writing Process and Assessment for K-8 Classrooms ED-LTCY 364 Field Experience in Literacy	3 3 1
Any course listed under the Reading Endorsement K-12	3
Choose at least one of the following: ED-ECS 320 Language Development, Assessment & Intervention **OR** ED-LTCY 348 Psycholinguistics and Literacy **OR** LING 305 Introduction to Language Studies **OR** LING 306 Modern English Grammar	3
Total	13

Reading Endorsement The endorsement in reading provides enhanced depth and breadth of course work in reading and language arts. This enhanced knowledge allows the student to be endorsed in reading education K-12. Twenty semester credits are required, which include a minimum of one or more courses from each of the five following areas: Foundations of Reading or Developmental Reading, Content Area Reading, Corrective/Diagnostic/

Remedial Reading, Psycholinguistics/Language Development and Reading, and Literature for Children or Adolescents. The courses listed here represent suggestions that fulfill the 20 credit endorsement.

Of the minimum twenty (20) semester credit hours needed for this endorsement, sixteen (16) credit hours must be divided among Areas I-V so that credit hours are earned from each area. Elementary Education majors seeking this endorsement must also take ED-LTCY 345 (3 credits). One additional credit hour taken from Areas II-VI: Electives will count towards this endorsement.

Reading Endorsement: K-8, or 6-12, or K-12	
Course Number and Title	**Credits**
Area I: Foundations of Developmental Reading ED-LTCY 340 Idaho Comprehensive Literacy Course	4
Area II: Reading in the Content Area (ED-LTCY 440 & 444 are required for K-12 endorsement) ED-LTCY 440 Content Area Language Arts: K-8 (Required for K-8 endorsement only) ED-LTCY 441 Content Area Language Arts: K-3 ED-LTCY 444 Content Literacy for Secondary Students **OR** ED-LTCY 450 Content Area Literacy for Secondary Students (Required for 6-12 endorsement only)	3-6
Area III: Corrective/Diagnostic/Remedial Reading ED-LTCY 341 Literacy, Learning and Assessment: K-3 **AND** ED-LTCY 342 Literacy, Learning and Assessment: 4-8 **OR** ED-LTCY 343 Reading Diagnosis and Intervention	3-4
Area IV: Psycholinguistics/Language Development and Reading ED-ECS 320 Language Development, Assessment & Intervention **OR** ED-LTCY 348 Psycholinguistics and Literacy **OR** LING 305 Introduction to Language Studies **OR** LING 306 Modern English Grammar **OR** LING 406 Psycholinguistics	3
Area V: Literature for Children or Adolescents ED-LTCY 346 Children's Literature ED-LTCY 447 Young Adult Literature ENGL 481 Literature for Use in Junior and Senior High Schools	3
Area VI: Electives to total 20 credits from the following list ED-BLESL 302 Teaching Reading Bilingually ED-LTCY 345 Writing Process and Assessment: K-8 Classroom ED-LTCY 364 Field Experience in Literacy ED-LTCY 493 Internships in Reading (Reading/Study Strategies Internship with ED-LTCY 105 and Internship in Classrooms) ED-LTCY 494 Workshops in Literacy ED-LTCY 496 Independent Study in Literacy ED-LTCY 497 Special Topics in Literacy ED-SPED 352 Differentiated Instruction for Academic Skills ED-SPED 353 Differentiated Instruction in the Content Area	0-4
Total	20

Course Offerings

See page 65 for a definition of the course-numbering system.

ED-LTCY—LITERACY

Lower Division

ED-LTCY 105 (UNIV 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 ED-LTCY or UNIV credit, but not both. (Pass/Fail.)

ED-LTCY 120 (UNIV 120) COMPREHENSION OF TEXTBOOK AND TEXT STRUCTURES (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-LTCY or UNIV credit, but not both.

Upper Division

ED-LTCY 340 IDAHO COMPREHENSIVE LITERACY COURSE (3-2-4)(F/S). Provides pre-service teachers with knowledge and strategies involving children's oral language, the structures of language, assessment and intervention and the role these play in developing literacy. Prepares pre-service teachers to meet part of the literacy requirements for an Idaho teaching credential. Strongly recommended for students who are required to pass the Idaho Comprehensive Literacy Exam: Standard One, the Structure of Language and Standard Three, Assessment. Includes a field-based experiential component two hours per week.

ED-LTCY 341 LITERACY, LEARNING AND ASSESSMENT: K-3 (2-0-2)(Offered on demand). Examines how children learn to read and write and the teacher's role in these processes. Using a balanced approach to literacy instruction, students learn to select materials; employ strategies to meet the cognitive and affective literacy needs of all children; and collect, integrate, and use data from various forms of assessment to inform teaching and learning processes. Includes a field-based experiential component. PREREQ: Admission to Teacher Education. COREQ: ED-LTCY 342 (NOTE: Except for Early Childhood Education/Early Childhood Special Education).

ED-LTCY 342 LITERACY, LEARNING, AND ASSESSMENT: 4-8 (2-0-2)(Offered on demand). Expands on students' understandings of children's literacy development, emphasizing middle level learning, and the teacher's role in these processes. Using a balanced approach to literacy instruction with importance given to the promotion and development of comprehension strategies, students learn to select and use materials appropriately; employ strategies to meet the cognitive and affective literacy needs of all children; and collect, integrate, and use data from various forms of assessment to inform teaching and learning processes. Includes a field-based experiential component. PREREQ: Admission to Teacher Education. COREQ: ED-LTCY 341.

ED-LTCY 343 READING DIAGNOSIS AND INTERVENTION (3-0-3)(F/S). 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: Admission to Teacher Education, ED-LTCY 340 and ED-LTCY 346. COREQ: ED-LTCY 364.

ED-LTCY 345 WRITING PROCESS AND ASSESSMENT FOR K-8 CLASSROOMS (3-0-3)(S). Writing process models, strategies, and assessment for narrative and expository text. Relationship among writing, reading, and spelling in the classroom. PREREQ: Admission to Teacher Education and ED-LTCY 340.

ED-LTCY 346 CHILDREN'S LITERATURE (3-0-3)(F/S). 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.

ED-LTCY 348 PSYCHOLINGUISTICS AND LITERACY (3-0-3)(F). 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-LTCY 364 FIELD EXPERIENCE IN LITERACY (0-3-1)(F/S). Literacy-related activities including a variety of skills in the area of reading, writing, and literacy assessment. COREQ: ED-LTCY 343.

ED-LTCY 440 CONTENT AREA LANGUAGE ARTS: K-8 (3-0-3)(F/S). 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. PREREQ: Admission to Teacher Education and ED-LTCY 340.

ED-LTCY 441 CONTENT AREA LANGUAGE ARTS: K-3 (2-0-2)(F/S). 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. PREREQ: Admission to Teacher Education and ED-LTCY 340. COREQ: ED-ECS 426.

ED-LTCY 444 CONTENT LITERACY FOR SECONDARY STUDENTS (3-0-3)(F/S). Instructional materials in the various content subjects and instructional strategies to meet reading, writing, and study needs of all learners in today's diverse society. Prepares pre-service teachers for Standard 2 of the Idaho Comprehensive Literacy Assessment. Cannot receive credit for both ED-LTCY 444 and ED-LTCY 450. PREREQ: Admission to Professional Year for Secondary Majors. COREQ: Content methods course for the student's declared major and ED-CIFS 401 or ED-SPED 365 or KINES 452.

ED-LTCY 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-LTCY 450 CONTENT AREA LITERACY FOR SECONDARY STUDENTS (3-0-3)(F/S). Instructional materials in content subjects and instructional strategies to meet reading, writing, and study needs of all learners in today's diverse society. For students seeking K-12 Idaho State Reading Endorsement. Cannot receive credit for both ED-LTCY 450 and ED-LTCY 444. PREREQ: Admission to Teacher Education for Elementary majors and ED-LTCY 340.

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

Business Building, Room 313 Telephone 208 426-1313
http://mg.boisestate.edu Fax 208 426-1857

Chair and Professor: Gundars Kaupins. *Professors:* Baughn, Bixby, Buchanan, Wanek. *Associate Professors:* Glen, Gough, McIntosh. *Assistant Professor:* Bodie, Sugheir. *Special Lecturers:* Park, Suciu, Taylor.

Degrees Offered

- B.B.A., B.A., B.S. in General Business
- B.B.A., B.A., B.S., and Minor in Management, Entrepreneurial Option
- B.B.A., B.A., B.S., and Minor in Management, Human Resource Management Option

Department Statement

The Department of Management offers two majors: general business and 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-trainee programs offered by business corporations, ranging from the fast-food industry to public utilities to financial institutions.

The Management major emphasizes two important management areas:

- Entrepreneurial Management
- Human Resource Management

The entrepreneurial management option 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 option 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.

Degree Requirements

Management, Entrepreneurial Option
OR
Management, Human Resource Management Option
Bachelor of Business Administration

Course Number and Title	Credits
ENGL 101-102 English Composition	6
Area I—see page 45 for list of approved courses	
Area I core courses	6
Area II	
COMM 101 Fundamentals of Speech Communication	3
ECON 201 Principles of Macroeconomics	3
ECON 202 Principles of Microeconomics	3
PSYC 101 General Psychology	3
Area III—see page 45 for list of approved courses	
Area III core course—(MATH 143 or MATH 147)	3-5
Area III core course—(MATH 160 or MATH 170)	4
Area III core course in a lab science	4

—continued—

Management (continued)	
Nonbusiness courses: Must include courses in at least two of the three following disciplines: **Arts and Humanities** (art, foreign language, humanities, literature, music, philosophy, theatre arts); **Social Sciences** (anthropology, communication, criminal justice, ED-CIFS, geography, history, political science, psychology, social work, sociology); **Natural Sciences and Mathematics** (biological sciences, physical sciences, mathematics). No more than 3 credits may be fitness activity courses. **The total of Area III and nonbusiness electives must be at least 31 credits.**	18-20
ACCT 205 Introduction to Financial Accounting ACCT 206 Introduction to Managerial Accounting	3 3
BUSCOM 201 Business Communication	3
BUSSTAT 207-208 Statistical Techniques for Decision Making I & II	6
FINAN 303 Principles of Finance	3
GENBUS 202 The Legal Environment of Business GENBUS 441 Business, Government, and Society GENBUS 450 Business Policy	3 3 3
ITM 310 Business Intelligence	3
MGMT 301 Leadership Skills MGMT 410 Advanced Management Topics	3 3
MGMT-HR 305 Human Resource Management	3
MKTG 301 Principles of Marketing	3
SCM 345 Principles of Operations Management	3
Entrepreneurial Option	
INTBUS 320 (recommended), ECON 317, FINAN 430, MGMT 334, MKTG 315, MKTG 430, or a university-sponsored semester abroad (requires department approval).	3
FINAN 304 Spreadsheets and Databases FINAN 410 Working Capital Management	1 3
GENBUS 302 Commercial Law	3
MGMT-ENT 320 Entrepreneurial Skills MGMT-ENT 420 New Venture Creation MGMT-ENT 421 Managing an Emerging Business	3 3 3
MKTG 420 Marketing Management	3
*Electives to total 128 credits	6
Total	128
NOTES: *Please refer to the B.B.A., B.A., or B.S. requirements in Chapter 11 for explanation. In addition to INTBUS 320, INTBUS 443 is recommended. Students must complete ITM 104 and ITM 105 or pass the computer placement exam as a prerequisite or BUSSTAT 207 and SCM 345.	
Human Resource Management Option	
INTBUS 320 (recommended), ECON 317, FINAN 430, MGMT 334, MKTG 315, MKTG 430, or a university-sponsored semester abroad (requires department approval).	3
MGMT-HR 330 Human Resource Law MGMT-HR 340 Employee and Labor Relations MGMT-HR 406 Compensation and Benefits	3 3 3
One of the following: COMM 307 Interviewing COMM 390/SOC 390 Conflict Management MGMT-HR 408 Employee Staffing and Training	3
**Electives to total 128 credits	13
Total	128
NOTES: **Please refer to the B.B.A., B.A., or B.S. requirements in Chapter 11 for explanation. Students must complete ITM 104 and ITM 105 or pass the computer placement exam as a prerequisite or BUSSTAT 207 and SCM 345.	

Double Major Requirements

A number of students want to major in both the new General Business Major and the Management Majors with Entrepreneurship or Human Resource Options. 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 Management, you will have to take three additional courses beyond your General Business Major.

If you double major in General Business and Management—Human Resource Management Option, you may **NOT** count the following courses in the General Business Major. This also applies to the General Business Major and Management—Human Resource Management Minor combination.

COMM 307 Interviewing
COMM 390 Conflict Management
MGMT-HR 330 Human Resource Law
MGMT-HR 406 Compensation and Benefits
MGMT-HR 408 Employee Staffing and Training
SOC 390 Conflict Management

If you double major in General Business and Management—Entrepreneurship Management Option, you may **NOT** count the following courses in the General Business Major. This also applies to the General Business Major and Management—Entrepreneurship Management Minor combination.

MGMT-ENT 320 Entrepreneurial Skills
MGMT-ENT 420 New Venture Creation
MGMT-ENT 421 Managing an Emerging Business

General Business Bachelor of Business Administration	
Course Number and Title	**Credits**
ENGL 101-102 English Composition	6
Area I—see page 45 for list of approved courses	
Area I core courses	6
Area II	
COMM 101 Fundamentals of Speech Communication ECON 201 Principles of Macroeconomics ECON 202 Principles of Microeconomics PSYC 101 General Psychology	3 3 3 3
Area III—see page 45 for list of approved courses	
Area III core course—(MATH 143 or MATH 147) Area III core course—(MATH 160 or MATH 170) Area III core course in a lab science	3-5 4 4
Nonbusiness courses: Must include courses in at least two of the three following disciplines: **Arts and Humanities** (art, foreign language, humanities, literature, music, philosophy, theatre arts); **Social Sciences** (anthropology, communication, criminal justice, ED-CIFS, geography, history, political science, psychology, social work, sociology); **Natural Sciences and Mathematics** (biological sciences, physical sciences, mathematics). No more than 3 credits may be fitness activity courses. **The total of Area III and nonbusiness electives must be at least 31 credits.**	18-20
ACCT 205 Introduction to Financial Accounting ACCT 206 Introduction to Managerial Accounting	3 3
BUSCOM 201 Business Communication	3
BUSSTAT 207-208 Statistical Techniques for Decision Making I & II	6

—continued—

General Business (continued)	
FINAN 303 Principles of Finance	3
GENBUS 202 The Legal Environment of Business GENBUS 450 Business Policies	3 3
ITM 310 Business Intelligence	3
MGMT 301 Leadership Skills	3
MKTG 301 Principles of Marketing	3
SCM 345 Principles of Operations Management	3
International Business requirement: INTBUS 320 (recommended), ECON 317, FINAN 430, MGMT 334, MKTG 315, MKTG 430, or a university-sponsored semester abroad (requires department approval).	3
Choose four, at least one of which must be a MGMT-HR course: GENBUS 302 Commercial Law **GENBUS 441 Business, Government, and Society MGMT 410 Advanced Management Topics MGMT-ENT 320 Entrepreneurial Skills MGMT-ENT 420 New Venture Creation MGMT-HR 305 Human Resource Management MGMT-HR 340 Employee and Labor Relations MGMT-HR 408 Employee Staffing and Training **Diversity course	12
Choose three of the following: FINAN 410 Working Capital Management MKTG 321 Professional Selling SCM 408 Lean Supply Chain and Operational Control SCM 416 Procurement, Logistics, and Supply Chain Integration Or any other upper-division COBE courses for which you have the prerequisites	9
*Electives to total 128 credits	13
Total	128
NOTES: *Please refer to the B.B.A., B.A., or B.S. requirements in Chapter 11 for explanation. Students must complete ITM 104 and ITM 105 or pass the computer placement exam as a prerequisite for BUSSTAT 207 and SCM 345.	

Students pursing a business degree may earn an Entrepreneurship 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.

Management, Entrepreneurship Minor	
Course Number and Title	**Credits**
MGMT 301 Leadership Skills	3
MGMT-ENT 320 Entrepreneurial Skills MGMT-ENT 420 New Venture Creation MGMT-ENT 421 Managing an Emerging Business	3 3 3
Two courses chosen from: ECON 321 Regional Economics FINAN 410 Working Capital Management INTBUS 443 Importing and Exporting Procedures ITM 497 Special Topics: Creative Problem Solving MGMT 493 Internship	6
Total	18

Students pursing 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.

Management, Human Resource Management Minor	
Course Number and Title	**Credits**
MGMT 301 Leadership Skills	3
MGMT-HR 305 Human Resource Management MGMT-HR 330 Human Resource Law MGMT-HR 340 Employee and Labor Relations MGMT-HR 406 Compensation and Benefits	3 3 3 3
One course chosen from: COMM 307 Interviewing COMM 390/SOC 390 Conflict Management GENBUS 441 Business, Government, and Society MGMT-HR 408 Employee Staffing and Training	3
Total	18

Course Offerings

See page 65 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.

GENBUS—GENERAL BUSINESS

Lower Division

GENBUS 101 INTRODUCTION TO BUSINESS (3-0-3)(F/S). Acquaints students with business organizations and current issues in business and society. Presents the strengths and limitations of the business enterprise as a dominant social institution, the global context in which businesses compete today, the need for social responsibility and ethics in conducting business transactions, the nature of business and government interaction, and contemporary business issues such as cultural diversity, innovations, quality, and human relations. CLASS LEVEL EXCLUDED: Juniors and seniors with declared business majors.

GENBUS 202 THE LEGAL ENVIRONMENT OF BUSINESS (3-0-3)(Diversity). 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). 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: 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.

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: GENBUS 304.

GENBUS 360 BUSINESS ETHICS AND SOCIAL RESPONSIBILITY (3-0-3)(F). 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 positions on ethical conduct and social responsibility.

GENBUS 441-441G BUSINESS, GOVERNMENT, AND SOCIETY (3-0-3)(F/S)(Diversity). Intensive study of the relationships between business, government, and society. Course also explores moral and ethical conduct and social responsibility. PREREQ: GENBUS 202, (GENBUS 302 recommended).

GENBUS 450 BUSINESS POLICIES (3-0-3). 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: Senior standing, plus FINAN 303, MGMT 301, MKTG 301, SCM 345.

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: BUSCOM 201 or ENGL 202.

MGMT 334 INTERNATIONAL MANAGEMENT (3-0-3)(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: MGMT 301.

MGMT 401 ORGANIZATIONAL BEHAVIOR (3-0-3). 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: MGMT 301.

MGMT 405 MANAGEMENT OF CONTINUOUS LEARNING (3-0-3)(F/S). 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: 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. May be repeated once for credit. PREREQ: MGMT 301.

MGMT 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: MGMT 301 and Junior standing or PERM/INST.

MGMT 493 INTERNSHIP (number of credits varies). Internship credits are earned in supervised field work specifically related to a students 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 university graduation requirements. PREREQ: PERM/INST.

MGMT-ENT—MANAGEMENT – ENTREPRENEURIAL

Upper Division

MGMT-ENT 320 ENTREPRENEURIAL SKILLS (3-0-3)(F). 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: Junior status or PERM/INST.

MGMT-ENT 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: FINAN 303, MGMT 301, MGMT-ENT 320, MKTG 301.

MGMT-ENT 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: ITM 310, MGMT-ENT 420, and SCM 345.

MGMT-HR—MANAGEMENT – HUMAN RESOURCE

Upper Division

MGMT-HR 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: ENGL102 and GENBUS 202.

MGMT-HR 330 HUMAN RESOURCE LAW (3-0-3)(F). 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: ENGL 102 and GENBUS 202.

MGMT-HR 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: ENGL 102 and GENBUS 202.

MGMT-HR 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: MGMT 305 or PERM/INST.

MGMT-HR 408 EMPLOYEE STAFFING AND TRAINING (3-0-3)(F/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: MGMT 305.

Department of Marketing and Finance

College of Business and Economics

Business Building, Room 306 Telephone 208 426-3356
http://mkfi.boisestate.edu Fax 208 426-5384
e-mail: mkfi-info@boisestate.edu

Chair and Professor: Gary McCain. *Professors:* Barney, Frankle, Lincoln, Ray, Sarin, Schooley-Pettis, Sego, Smith, White. *Associate Professors:* Harvey, MacDonald, Maher.

Degrees Offered

- B.B.A., B.A., B.S., in Accountancy and Finance (See Department of Accountancy.)
- B.B.A., B.A., B.S., and Minor in Finance
- B.B.A., B.A., B.S., and Minor in Marketing

Department Statement

The Department of Marketing and Finance offers courses leading to undergraduate degrees in either marketing or finance. Finance majors may choose a general program of study or concentrate course selections in investment and portfolio management, corporate finance, or financial institutions. Marketing majors may choose a general program of study or concentrate their studies in an area such as high-tech marketing, promotion, professional selling, international marketing, or marketing strategy. Students not majoring in marketing or finance may be interested in enrolling in department offerings such as personal finance, real estate, customer satisfaction, or professional selling. Also available is a dual Accounting/ Finance degree that simplifies the requirements and avoids overlap compared to degrees in both Accounting and Finance.

The goal of the department is to prepare students for careers in the business world or for graduate school by helping them develop fundamental skills in finance and marketing. The curriculum for these majors addresses current business trends and the developing global economy through such courses as International Finance, International Marketing, and special topics courses which vary each semester. Students gain practical experience through internships at local companies and case studies in both marketing and finance courses. These activities teach students to identify and solve business problems in today's rapidly changing business environment.

Degree Requirements

The finance curriculum is designed with major emphases in the three areas of finance: corporate finance, investment and portfolio management, and financial institutions and markets. Students can select a general program or may concentrate course selection around the broad areas of finance. The Course Offerings are preparation for financial decision making using accounting and market information within a framework of economic theory. A major in the area of finance prepares students to deal with a wide range of financial situations, including those that concern businesses, individuals, and government.

Finance Bachelor of Business Administration	
Course Number and Title	**Credits**
ENGL 101-102 English Composition	6
Area I—see page 45 for list of approved courses	
Area I core courses	6
Area II—see page 45 for list of approved courses	
COMM 101 Fundamentals of Speech Communication ECON 201 Principles of Macroeconomics ECON 202 Principles of Microeconomics Area II core course in any field except Economics	3 3 3 3
Area III—see page 45 for list of approved courses	
Area III core course—(MATH 143 or MATH 147) Area III core course—(MATH 160 or MATH 170) Area III core course in a lab science	3-5 4 4
Nonbusiness courses: Must include courses in at least two of the three following disciplines: **Arts and Humanities** (art, foreign language, humanities, literature, music, philosophy, theatre arts); **Social Sciences** (anthropology, communication, criminal justice, ED-CIFS, geography, history, political science, psychology, social work, sociology); **Natural Sciences and Mathematics** (biological sciences, physical sciences, mathematics). No more than 3 credits may be fitness activity courses. **The total of Area III and nonbusiness electives must be at least 31 credits.**	18-20
ACCT 205 Introduction to Financial Accounting ACCT 206 Introduction to Managerial Accounting ACCT 304 Intermediate Accounting ACCT 350 Analysis, Design, and Audit of Accounting Information Systems	3 3 3 3
BUSCOM 201 Business Communication	3
BUSSTAT 207-208 Statistical Techniques for Decision Making I & II	6
ECON 303 Intermediate Microeconomics	3
FINAN 303 Principles of Finance FINAN 304 Spreadsheets and Data Bases FINAN 410 Working Capital Management FINAN 411 Capital Budgeting and Planning FINAN 420 Management of Financial Institutions FINAN 440 Financial Modeling FINAN 450 Investment Management FINAN 451 Frontiers in Financial Markets	3 1 3 3 3 3 3 3
GENBUS 202 The Legal Environment of Business GENBUS 450 Business Policies	3 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, or economics. If the elective is chosen from upper-division accounting or economics, prior approval of a finance advisor is required and written verification of the approval must be sent to the Graduation Evaluators in the Registrar's Office.	3
*Electives to total 128 credits	9
Total	128
NOTES: *Please refer to the B.B.A., B.A., or B.S. requirements in Chapter 11 for explanation. Upper-division majors are assumed to have basic database, spreadsheet, and word processing skills. Students lacking these skills should take ITM 104, 105, 106.	

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 410 Working Capital Management	3
FINAN 411 Capital Budgeting and Planning	3
FINAN 450 Investment Management	3
Any two of the following: FINAN 420 Management of Financial Institutions FINAN 430 International Finance FINAN 440 Financial Modeling FINAN 451 Frontiers in Financial Markets	6
Total	18

An Accountancy/Finance major is a powerful integrative program that overcomes the artificial distinctions between the disciplines and addresses the fact that finance and accounting have become increasingly intertwined in the business world. Compared to a double major in Accountancy and Finance, this major streamlines requirements to avoid overlap in the two majors; and students will be able to graduate with the required minimum of 128 credits.

Combined Major, Accountancy and Finance
The combined major is designed for students who seek positions in business that have combined accountancy and finance managerial responsibilities. It offers an opportunity to combine courses in complementary subject areas. See the Department of Accountancy listing in this catalog for specific requirements.

The marketing curriculum is designed to provide students with a comprehensive background in marketing while still providing flexibility to adapt to individual and career goals. Therefore, the major requirements allow a student to choose from an array of courses. The course work stresses practical applications of marketing concepts through cooperative programs with the local business community. The marketing program is designed to prepare students for a variety of career positions, including new product development, industrial sales, advertising, and marketing research.

Marketing Bachelor of Business Administration	
Course Number and Title	**Credits**
ENGL 101-102 English Composition	6
Area I—see page 45 for list of approved courses	
Area I core courses	6
Area II	
COMM 101 Fundamentals of Speech Communication	3
ECON 201 Principles of Macroeconomics	3
ECON 202 Principles of Microeconomics	3
PSYC 101 General Psychology	3
Area III—see page 45 for list of approved courses	
Area III core course—(MATH 143 or MATH 147)	3-5
Area III core course—(MATH 160 or MATH 170)	4
Area III core course in a lab science	4

—continued—

Marketing, Bachelor of Business Administration (continued)	
Nonbusiness courses: UNIV 106 Library Skills Must include courses in at least two of the three following disciplines: **Arts and Humanities** (art, foreign language, humanities, literature, music, philosophy, theatre arts); **Social Sciences** (anthropology, communication, criminal justice, ED-CIFS, geography, history, political science, psychology, social work, sociology); **Natural Sciences and Mathematics** (biological sciences, physical sciences, mathematics). No more than 3 credits may be fitness activity courses. **The total of Area III and nonbusiness electives must be at least 31 credits.**	1 17-19
ACCT 205 Introduction to Financial Accounting ACCT 206 Introduction to Managerial Accounting	3 3
BUSCOM 201 Business Communication	3
BUSSTAT 207-208 Statistical Techniques for Decision Making I & II	6
ECON 303 Intermediate Microeconomics	3
FINAN 303 Principles of Finance	3
GENBUS 202 The Legal Environment of Business GENBUS 450 Business Policies	3 3
ITM 310 Business Intelligence	3
MGMT 301 Leadership Skills	3
MKTG 301 Principles of Marketing MKTG 307 Customer Behavior MKTG 315 International Marketing Research MKTG 321 Professional Selling MKTG 400 Careers/Job Entry Strategies MKTG 425 Marketing Planning Applications	3 3 3 3 1 3
SCM 345 Principles of Operations Management	3
Upper-division Marketing electives A maximum of 3 internship credits are allowed.	6
*Electives to total 128 credits	15
Total	128
NOTES: *Please refer to the B.B.A., B.A., or B.S. requirements in Chapter 11 for explanation. Upper-division majors are assumed to have basic database, spreadsheet, and word processing skills. Students lacking these skills should take ITM 104, 105, 106.	

Students may earn a minor in marketing by satisfying the requirements listed below (in addition to the requirements of their major).

Marketing Minor	
Course Number and Title	**Credits**
ACCT 205 Intro to Financial Accounting	3
BUSCOM 201 Business Communication **OR** ENGL 202 Technical Communication	3
ECON 202 Principles of Microeconomics	3
MKTG 301 Principles of Marketing MKTG 307 Customer Behavior MKTG 321 Professional Selling	3 3 3
Upper-division marketing courses	6
Total	24

Course Offerings

Upper-division courses in the Department of Marketing and Finance (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.

See page 65 for a definition of the course-numbering system.

BUSCOM—BUSINESS COMMUNICATION

Lower Division

BUSCOM 201 BUSINESS COMMUNICATION (3-0-3)(F/S). 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.

Upper Division

BUSCOM 338 TECHNICAL WRITING FOR BUSINESS (3-0-3)(S). A study and application of the principles and logic of effective writing in the preparation of business reports and technical papers. Specific as well as general instruction in the gathering and interpreting of data, organizing of information, and writing of the final report. The case study approach will be used. PREREQ: BUSCOM 201.

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). Essentials of real estate practice, listings, sales, financing, land descriptions, investments, brokerage, advertising, market analysis, and fundamentals arising from real estate transactions.

FINAN 208 PERSONAL FINANCE (3-0-3)(F/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 231 PRINCIPLES OF INSURANCE (3-0-3)(F/S). Fundamental legal principles involved in insurance contracts. Company practices in relation to insurance management are stressed, as is the field of regulation on both the theoretical and practical applications. All areas of insurance are covered including life, casualty, liability, and medical.

FINAN 250 PERSONAL INVESTING (3-0-3)(F/S). The basic mechanics and principles of investing are introduced to acquaint students with investment vehicles, markets, and processes. Other topics will include speculation, options, and commodities.

Upper Division

FINAN 303 PRINCIPLES OF FINANCE (3-0-3)(F/S). 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: ACCT 206, ECON 201, ECON 202 and BUSSTAT 207.

FINAN 304 SPREADSHEETS AND DATABASES (1-0-1)(F,S). This course focuses on applications of computer spreadsheets and data bases in financial decision making. The standard software products utilized in financial analysis are introduced, with emphasis placed on using available software to solve problems that frequently arise in finance. Applications include the development of loan amortization schedules, financial statement analysis, capital budgeting, and the valuation of financial securities. PRE/COREQ: FINAN 303.

FINAN 410-410G WORKING CAPITAL MANAGEMENT (3-0-3)(F/S). 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: FINAN 303.

FINAN 411-411G 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: BUSSTAT 208 and FINAN 303.

FINAN 420-420G 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: FINAN 303.

FINAN 430-430G INTERNATIONAL FINANCE (3-0-3)(F). 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: 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: FINAN 304.

FINAN 450-450G 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: BUSSTAT 208 and FINAN 303.

FINAN 451-451G 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: BUSSTAT 208 and FINAN 303.

FINAN 460 ASSET ALLOCATION AND SECURITY SELECTION (2-0-2)(F). An applied course in security selection. Students invest donated monies in stocks and mutual funds to generate a return to be used to provide scholarships and software to support the education of future finance students. Students apply tools of financial analysis to choose and manage a portfolio of stocks and mutual funds. PREREQ: FINAN 303 and PERM/INST.

FINAN 461 PORTFOLIO PERFORMANCE MEASUREMENT (2-0-2)(S). Students manage a portfolio of stocks and mutual funds to generate a return to be used to provide scholarships and software to support future generations of finance students. Students measure portfolio returns and report those returns to the Advisory Board of the College of Business and Economics. PREREQ: FINAN 460 and PERM/INST.

FINAN 498-499 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: FINAN 303 and PERM/INST.

MKTG—MARKETING

Lower Division

MKTG 101 CURRENT ISSUES IN MARKETING AND SOCIETY (3-0-3)(F). Introduction to basic principles of marketing in the context of social issues, current events, and popular culture. Students are exposed to and analyze contemporary marketing topics and apply concepts learned to a marketing plan project. PREREQ: Freshmen only.

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: ACCT 205, ECON 202 and BUSCOM 201 or ENGL 202 .

MKTG 307 CUSTOMER BEHAVIOR (3-0-3)(F). Concepts in and analysis of consumer and group satisfaction attributes, methods of measurement, and processes to guide decisions using this knowledge. PREREQ: MKTG 301.

MKTG 309 CUSTOMER RELATIONSHIP MANAGEMENT (3-0-3)(F/S). Customer-centric business strategy used to acquire, develop, retain, and grow the most valuable customer relationships. Developing an understanding of what it means to have a unified view of customers across the enterprise and how to recognize opportunities for continual, interactive, and relevant information exchanges with customers. Includes: strategic/managerial, analytical, operational, and customer data management. PREREQ: 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. PREREQ: BUSSTAT 208 and MKTG 301.

MKTG 321 PROFESSIONAL SELLING (3-0-3)(F). 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.

MKTG 340 SERVICES MARKETING (3-0-3)(F). Examines the problems and strategies used in services marketing. Methods of evaluating quality in service development and delivery will be analyzed. Design and implementation of the services marketing mix will be studied through discussion, readings, and selected case analysis. PREREQ: MKTG 301.

MKTG 400 CAREER/JOB ENTRY STRATEGIES (1-0-1)(F/S). Preparation for career entry developed through identification of career opportunities; development of personal career objectives; creation of personal portfolios and résumés, application correspondence, reference letters, and examples of accomplishments; demonstration and practice of interviewing skills and presentation of self; and initiation of job searching methods.

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: 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: 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 sponsor-ships, 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: MKTG 307.

MKTG 418 CUSTOMER SATISFACTION MEASUREMENT (3-0-3)(F/S). This course introduces students to the concept and process of measuring customer satisfaction. The specific issues connected with designing and implementing customer satisfaction programs will be presented. Included will be an analysis of how customer satisfaction data can be integrated into the operations of the organization. Such topics as internal and external benchmarking, survey techniques, and survey data analysis will be discussed. PREREQ: 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: MKTG 301 and satisfactory completion of the College of Business and Economics computer competency exam.

MKTG 421 SALES ADMINISTRATION (3-0-3)(F/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: MKTG 301, MKTG 321.

MKTG 422 NEW PRODUCT DEVELOPMENT (3-0-3)(F). 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: MKTG 301.

MKTG 423 MARKETING HI-TECH PRODUCTS (3-0-3)(F/S). Strategies and practices involved in the fast-paced, turbulent environment of marketing technologically oriented goods and services. Explores if, where, how, and why these strategies differ from marketing of non-technical goods/services. Examines different schools of thought along with their respective advantages and limitations. PREREQ: 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: Marketing major, senior standing, and MKTG 301.

MKTG 430 INTERNATIONAL MARKETING (3-0-3)(F/S)(Diversity). An analysis of the creation, planning, and implementation of marketing strategies that cross national and cultural borders. PREREQ: MKTG 301.

MKTG 440 INDUSTRIAL MARKETING (3-0-3)(F/S). 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: 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: MKTG 301.

MKTG 493 INTERNSHIP (number of credits varies). Internship credits are earned in supervised field work 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: MKTG 301 and PERM/INST.

MKTG 498 SEMINAR IN CONTEMPORARY TOPICS IN MARKETING. 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: MKTG 301.

Department of Materials Science and Engineering

College of Engineering

Engineering & Technology Bldg. Room 240 208 426-5788
http://coen.boisestate.edu/mse/ Fax 208 426-2470

Chair and Associate Professor: Amy Moll. *Professors:* Butt, Callahan. *Associate Professors:* Campbell, Knowlton, Müllner. *Assistant Professor:* Frary. *Research Professor:* Yurke. *Research Assistant Professors:* Donovan, Ubic.

Degrees Offered

- B.S. and Minor in Materials Science and Engineering (B.S.M.S.E.)
- M.Engr. in Materials Science and Engineering (See the *BSU Graduate Catalog*)
- M.S. in Materials Science and Engineering (See the *BSU Graduate Catalog*)

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 for 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, 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 focused environment, the engineer and scientist work to modify materials to optimize performance, reduce cost, and to develop materials with a greater range of capabilities.

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 B.S.M.S.E.	
Course Number and Title	**Credits**
ENGL 101-102 English Composition	6
Area I—see page 45 for list of approved courses	
Area I core course in one field	3
Area I core course in a second field	3
Area I core course in any field	3
Area II—see page 45 for list of approved courses	
COMM 101 Fundamentals of Speech Communication	3
Area II core course in a second field	3
Area II core course in any field	3
Area III	
Area III requirements are automatically met by specific courses included in the major requirements below.	
CHEM 111, 111L-112, 112L General Chemistry I and II with Labs	9
COMPSCI 115 Introduction to C **OR** COMPSCI 117 Introduction to C++ **OR** COMPSCI 119 Introduction to JAVA	2-3
ENGL 202 Technical Communication	3
ENGR 120 Introduction to Engineering	3
ENGR 210 Engineering Statics	3
ENGR 240 Electrical and Electronic Circuits **OR** ECE 210 Introduction to Electric Circuits	3
ENGR 245, 245L Introduction to Materials Science and Engineering and Lab	4
MATH 170, 175 Calculus I and Calculus II	8
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	3-4
MSE 215 Materials Processing	2
MSE 305 Bonding, Crystallography, and Crystal Defects	3
MSE 308 Thermodynamics of Materials	3
MSE 310 Electrical Properties of Materials	3
MSE 312 Mechanical Behavior of Materials	3
MSE 380 Materials Engineering Lab	2
MSE 404 Materials Analysis **OR** PHYS 423 Physical Methods of Materials Characterization	3
MSE 404L Materials Analysis Lab	1
MSE 408 Phase Transformations and Kinetics	3
MSE 480, 482 Senior Project I and II	4
MSE 485 Materials Selection	2
PHYS 211, 211L Physics I with Calculus and Lab	5
PHYS 212, 212L Physics II with Calculus and Lab	5
PHYS 309, 310 Introductory Modern Physics with Applications and Lab	4
*Technical electives in an area of concentration	18
Total	131-133

Materials Science and Engineering Minor	
Course Number and Title	**Credits**
CHEM 321 Physical Chemistry Lecture **OR** PHYS 309, 310 Introductory Modern Physics with Applications and Lab	3-4
CHEM 322 Physical Chemistry Lecture **OR** MSE 308 Thermodynamics of Materials **OR** PHYS 432 Thermal Physics	3
ENGR 245, 245L Introduction to Materials Science and Engineering and Lab	4
Courses chosen from the following list: CE 340, CE 341, CHEM 401, ECE 323, ECE 440, ME 442, ME 444, ME 454, MSE 305, MSE 310, MSE 312, MSE 404, MSE 408, MSE 461, MSE 477, MSE 488, PHYS 415, PHYS 423	9
Total	19

Course Offerings

See page 65 for a definition of the course-numbering system.

MSE—MATERIALS SCIENCE AND ENGINEERING

Lower Division

MSE 215 MATERIALS PROCESSING (2-0-2)(S). Survey of manufacturing and processing techniques for technological materials including biomaterials, ceramics, metals, nanomaterials and polymers. PREREQ: ENGR 120 and ENGR 245.

Upper Division

MSE 305 BONDING, CRYSTALLOGRAPHY, AND CRYSTAL DEFECTS (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)(S). 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 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 MSE or ECE credit, but not both. PREREQ: ENGR 245, MATH 333 and PHYS 309 or ECE 225.

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 380 MATERIALS SCIENCE AND ENGINEERING LABORATORY (1-4-2)(S). Introduction to laboratory test instrumentation and statistical methods used in materials engineering. Experiments using thermal and thermodynamic measurement techniques and characterization of electromagnetic properties of materials. PRE/COREQ: MSE 215, MSE 305, and MSE 308.

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 404 or PHYS 423.

MSE 408 PHASE TRANSFORMATIONS AND KINETICS (3-0-3)(F). 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 421 INTRODUCTION TO TRANSMISSION ELECTRON MICROSCOPY (1-4-3)(F/S). Functionality of transmission electron microscope and main accessories, electron diffraction, BF/DF microscopy, analytical microscopy, high resolution, sample preparation, and real world experiments. Student is required to have a planned project that utilizes the TEM. PREREQ: PERM/INST.

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 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 480, 482 SENIOR PROJECT I, II (1-4-2)(F/S). Culminating major design experience. Incorporating engineering standards and realistic constraints that include most of the following: economic, environmental, manufacturability, ethical, health and safety, social and political. PRE/COREQ: MSE 312, MSE 404 and MSE 408.

MSE 485 MATERIALS SELECTION (2-2-2)(S). Mechanical, chemical and thermal behavior of biomaterials, ceramics, metals, polymers and composites are compared and contrasted. Consideration of the trade-offs in selecting materials for specific applications are considered and exemplified by case studies. PRE/COREQ: MSE 310 and MSE 312.

MSE 488 BIOCOMPATIBILITY AND ENVIRONMENTAL DEGRADATION (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: CHEM 112 or ENGR 245.

MSE 498 MATERIALS SCIENCE AND ENGINEERING SEMINAR (1-0-1)(F/S). A review of contemporary issues with an emphasis on life-long learning in Materials Science and Engineering. Maybe repeated for a total of 3 credits. (Pass/Fail). PREREQ: PERM/INST.

Mass Communication/Journalism—see Department of Communication

Department of Mathematics

College of Arts and Sciences

Math-Geosciences Building, Room 235 Telephone 208 426-1172
http://math.boisestate.edu/ Fax 208 426-1356
e-mail: office@math.boisestate.edu

Chair and Associate Professor: Doug Bullock. *Professors:* Hausrath, Kerr, Scheepers, Walen. *Associate Professors:* Brill, Grantham, Holmes, Kaiser, Kenny, Kinzel, Mead, Rohrig, Smith, Zubik-Kowal. *Assistant Professors:* Babinkostova, Geschke, Harlander, Ko, Lee, Qu , Wright.

Degrees Offered

- B.S., and Minor in Applied Mathematics
- B.A., B.S., and Minor in Mathematics
- B.A. and B.S. in Mathematics, Secondary Education
- M.S. in Mathematics (See the *BSU Graduate Catalog.*)
- M.S. in Mathematics Education (See the *BSU Graduate Catalog.*)

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.

The Mathematics, Secondary Education degree prepares students to teach mathematics at the junior high or senior high school level. It combines a broad background in mathematics with a firm foundation in educational theory and methodology.

Degree Requirements

Applied Mathematics Bachelor of Science	
Course Number and Title	**Credits**
ENGL 101-102 English Composition	6
Area I—see page 45 for list of approved courses	
Area I core course in one field	3
Area I core course in a second field	3
Area I core course in a third field	3
Area I core course in any field	3
Area II—see page 45 for list of approved courses	
Area II core course in one field	3
Area II core course in a second field	3
Area II core course in a third field	3
Area II core course in any field	3
Area III—see page 45 for list of approved courses	
MATH 170 Calculus I	4
MATH 175 Calculus II	4
Area III core course in a lab science	4
One of the following: COMPSCI 115 Introduction to C COMPSCI 117 Introduction to C++ COMPSCI 119 Introduction to JAVA COMPSCI 125 Introduction to Computer Science I	2-5
One of the following sequences: BIOL 191-192, CHEM 111-112, COMPSCI 225-242, ECON 201-202, ENGR 210-220, GEOS 100-221, PHYS 211, 211L-212, 212L	6-10

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Applied Mathematics (continued)	
MATH 187 Discrete and Foundational Mathematics I	4
MATH 271 Mathematical Software	1
MATH 275 Multivariable and Vector Calculus	4
MATH 301 Linear Algebra	4
MATH 314 Foundations of Analysis	3
MATH 333 Differential Equations with Matrix Theory	4
MATH 361 Probability and Statistics I	4
MATH 465 Numerical Analysis I	3
MATH 488 Senior Outcome Assessment	0
3 of the following, with at least 2 from List I: **List I** MATH 307 Cryptology I MATH 308 Cryptology II MATH 426 Complex Variables MATH 433 Ordinary Differential Equations MATH 436 Partial Differential Equations **List II** MATH 305 Abstract Algebra I MATH 306 Number Theory MATH 387 Discrete and Foundational Mathematics II MATH 464 Mathematical Modeling MATH 480 Senior Project	9-12
Upper-division electives to total 40 credits	9-12
Electives to total 128 credits	19-32
Total	128

Mathematics
Bachelor of Arts or Bachelor of Science

Course Number and Title	Credits
ENGL 101-102 English Composition	6
Area I—see page 45 for list of approved courses	
Area I core course in one field	3
Area I core course in a second field	3
Area I core course in a third field	3
Area I core course in any field (B.A. must complete 3 credits of Area I core literature)	3
Area II—see page 45 for list of approved courses	
Area II core course in one field	3
Area II core course in a second field	3
Area II core course in a third field	3
Area II core course in any field (B.A. must complete 3 credits of Area II core history)	3
Area III	
MATH 170 Calculus I	4
At least 8 credits chosen from the following: BIOL 191-192, CHEM 111-112, GEOS 101, PHYS 211, 211L-212, 212L	8-10
One of the following: COMPSCI 115 Introduction to C COMPSCI 117 Introduction to C++ COMPSCI 119 Introduction to JAVA COMPSCI 125 Introduction to Computer Science I	2-5
MATH 175 Calculus II	4
MATH 187 Discrete and Foundational Mathematics I	4
MATH 275 Multivariable and Vector Calculus	4
MATH 301 Linear Algebra	4
MATH 314 Foundations of Analysis	3
MATH 361 Probability and Statistics I	4
MATH 488 Senior Outcome Assessment	0

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Mathematics (continued)	
5 of the following, with 2 at the 400-level MATH 305 Abstract Algebra I MATH 306 Number Theory MATH 307 Cryptology I MATH 308 Cryptology II MATH 311 Foundations of Geometry MATH 333 Differential Equations with Matrix Theory MATH 387 Discrete and Foundational Mathematics II MATH 405 Abstract Algebra MATH 411 Introduction to Topology MATH 414 Advanced Calculus MATH 426 Complex Variable MATH 436 Partial Differential Equations MATH 456 Linear Programming MATH 462 Probability and Statistics II MATH 465 Numerical Analysis I	15-20
Upper-division electives to total 40 credits	9-14
Electives to total 128 credits	27-32
Total	128

The Mathematics, 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 professional educator. Professional educators integrate complex roles and dispositions in the service of diverse communities of learners, use effective approaches that promote high levels of student achievement, and create environments that prepare learners to be citizens who contribute to a complex world. 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.

Mathematics, Secondary Education
Bachelor of Science or Bachelor of Arts

Course Number and Title	Credits
ENGL 101-102 English Composition	6
Area I—see page 45 for list of approved courses	
Area I core course in one field	3
Area I core course in a second field	3
Area I core course in a third field	3
Area I core course in any field (B.A. must complete 3 credits of Area I core literature)	3
Area II—see page 45 for list of approved courses	
ED-CIFS 201 Foundations of Education	3
Area II core course in a second field	3
Area II core course in a third field	3
Area II core course in any field (B.A. must complete 3 credits of Area II core history)	3
Area III—see page 45 for list of approved courses	
MATH 170 Calculus I	4
MATH 175 Calculus II	4
Area III core course in a lab science except BIOL 100, CHEM 100, ENGR 100, GEOS 100 and PHYS 100	4

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Mathematics, Secondary Education (continued)	
*ED-CIFS 301 Teaching Experience I *ED-CIFS 302 Learning and Instruction *ED-CIFS 401 Professional Year—Teaching Experience II *ED-LTCY 444 Content Literacy for Secondary Students *ED-SPED 350 Teaching Students with Exceptional Needs at the Secondary Level *Teaching Experience III/IV NOTE: *You must apply for admission to secondary teacher education in order to enroll in these upper-division education courses. Completion of all requirements for graduation with a secondary education option may require more than 128 credit hours. See "Department of Curriculum, Instruction, and Foundational Studies" for more information.	1 4 2 3 3 16
EDTECH 202 Educational Technology	3
MATH 187 Discrete and Foundational Mathematics I MATH 211 Geometry for the Classroom MATH 261 Statistics for the Classroom MATH 270 Technology in the Secondary Mathematics Classroom MATH 301 Linear Algebra MATH 311 Foundations of Geometry MATH 314 Foundations of Analysis MATH 361 Probability and Statistics I MATH 464 Mathematical Modeling MATH 488 Senior Outcome Assessment MATH 490 Mathematics in Secondary Schools	4 3 3 3 4 3 3 4 3 0 4
MATH 305 Abstract Algebra I **OR** MATH 306 Number Theory	3
Electives to total 128 credits	17
Total	128

Mathematics Minor

Course Number and Title	Credits
MATH 170 Calculus I MATH 175 Calculus II MATH 275 Multivariable and Vector Calculus	4 4 4
Upper-division mathematics (MATH prefix except for MATH 490 or above), including at least one of the following: MATH 305 Abstract Algebra I MATH 306 Number Theory MATH 311 Foundations of Geometry MATH 314 Foundations of Analysis	9-11
Total	21-24

Applied Mathematics Minor

Course Number and Title	Credits
MATH 170 Calculus I MATH 175 Calculus II MATH 271 Mathematical Software MATH 275 Multivariable and Vector Calculus	4 4 1 4
Upper-division mathematics chosen from the following: MATH 301 Linear Algebra MATH 333 Differential Equations with Matrix Theory MATH 361 Probability and Statistics I MATH 426 Complex Analysis MATH 436 Partial Differential Equations MATH 456 Linear Programming MATH 462 Probability and Statistics II MATH 464 Mathematical Modeling MATH 465 Numerical Analysis I	9-11
Total	22-24

Mathematics Minor Certification Endorsement

Course Number and Title	Credits
MATH 170 Calculus 1 MATH 175 Calculus II MATH 187 Discrete and Foundational Mathematics I MATH 270 Technology in the Secondary Mathematics Classroom MATH 301 Linear Algebra MATH 311 Foundations of Geometry MATH 361 Probability and Statistics I MATH 490 Mathematics in Secondary Schools	4 4 4 3 4 3 4 4
Total	29

Course Offerings

See page 65 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 Offerings.

MATH—MATHEMATICS

Lower Division

MATH 15 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 25 ELEMENTARY ALGEBRA (3-0-0). 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 (4-0-4). 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 Core course, and cannot be taken for credit after any MATH course numbered MATH 143 or higher. PREREQ: MATH 25 or satisfactory placement score.

MATH 124 INTRODUCTION TO MATHEMATICAL THOUGHT (4-0-4)(F,S)(Area III). Survey of selected mathematical topics with emphasis on the nature of mathematical reasoning, discovery, and invention, and on the aesthetic, biographical, historical, and philosophical aspects of mathematics. PREREQ MATH 25 or satisfactory placement score.

MATH 130 FINITE MATHEMATICS (4-0-4)(Area III). Systems of linear equations and inequalities, elementary matrix algebra, introduction to linear programming, elementary discrete probability and statistics. Emphasis on applications to business, economics and social sciences. MATH 130 cannot be taken for credit if taken after MATH 301, MATH 360, or MATH 361. PREREQ: MATH 25 or satisfactory placement score.

MATH 143 COLLEGE ALGEBRA (3-0-3)(Area III). 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. 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). 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. PREREQ: MATH 143 or satisfactory placement score.

MATH 147 PRECALCULUS (5-0-5)(Area III). 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). 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)(Area III). 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)(Area III). 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)(Area III). 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 170.

MATH 187 DISCRETE AND FOUNDATIONAL MATHEMATICS I (4-0-4)(F/S)(Area III). An introduction to the language and methods of reasoning used throughout mathematics and computer science, and to selected topics in discrete mathematics. Propositional and predicate logic; elementary set theory; introduction to proof techniques including mathematical induction; functions and relations; and basic principles of elementary number theory, combinatorial enumeration, and graph theory. PREREQ: MATH 143, MATH 147 or satisfactory placement score.

MATH 211 GEOMETRY FOR THE CLASSROOM (3-0-3)(F)(Even years). 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 147.

MATH 254 APPLIED STATISTICS WITH COMPUTERS (4-0-4)(S)(Area III). Pre-calculus treatment of descriptive statistics, confidence intervals, hypothesis testing, regression, correlation. Selected topics from probability theory. Emphasis on concepts and applications to a wide variety of disciplines. Use of computer statistics packages to handle computations. Carries no credit after MATH 360 or MATH 361. PREREQ: MATH 108, MATH 130, or MATH 143, or satisfactory placement score.

MATH 257 GEOMETRY AND PROBABILITY FOR TEACHERS (4-0-4)(F,S)(Area III). 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)(F)(Odd years). 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 270 TECHNOLOGY IN THE SECONDARY MATHEMATICS CLASSROOM (3-0-3)(S). Essential skills and techniques for using technology in teaching and learning mathematics, problem solving, and mathematical thinking and reasoning. Mathematical topics selected from areas such as algebra, probability, statistics, and geometry. PREREQ: MATH 143.

MATH 271 MATHEMATICAL SOFTWARE (0-1-1)(S). Introduction to general-purpose mathematical software systems which provide symbolic, numerical and graphical capabilities; emphasis on multidimensional problems. PREREQ: MATH 275 and one of COMPSCI 115, COMPSCI 117, COMPSCI 119, or COMPSCI 125.

MATH 275 MULTIVARIABLE AND VECTOR CALCULUS (4-0-4). 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 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 LINEAR ALGEBRA (4-0-4)(F,S). Matrix algebra, determinants, vector spaces, and linear transformations. PREREQ: MATH 275, or both MATH 175 and MATH 187.

MATH 305 ABSTRACT ALGEBRA I (3-0-3)(S). Introduction to abstract algebraic systems – their motivation, definitions, and basic properties. Primary emphasis is on group theory (permutation and cyclic groups, subgroups, homomorphism, quotient groups), followed by a brief survey of rings, integral domains, and fields. PREREQ: MATH 187 and MATH 301.

MATH 306 NUMBER THEORY (3-0-3)(F). Diophantine equations, residues, quadratic reciprocity, and continued fractions. PREREQ: MATH 175 and MATH 187.

MATH 307 (COMPSCI 367/567) CRYPTOLOGY I (4-0-4)(F). Introduction to modular arithmetic. The study of: the RSA, El-Gamal, Diffie-Hellman, and Blum-Blum-Shrub public key cryptosystems, authentication and digital signatures, anonymity protocols. Protocol failures for these systems. Cross-listed with COMPSCI 367 and COMPSCI 567; credit may be received for only one of these three courses. PREREQ: MATH 170, and MATH 187.

MATH 308 (COMPSCI 368/568) CRYPTOLOGY II (4-0-4)(S). Introduction to groups, fields, polynomial rings and Lucas numbers. The study of: the Elliptic Curve, LUC, and NTRU public keys cryptosystems, authentication and digital signatures, anonymity protocols. Cross-listed with MATH 308 and COMPSCI 368/568; credit may be received for only one of these three courses. PREREQ: MATH 170, and MATH 187.

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.

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 187.

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). 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 275.

MATH 361 PROBABILITY AND STATISTICS I (4-0-4). Calculus-based treatment of probability theory, random variables, distributions, conditional probability, central limit theorem, descriptive statistics, regression and correlation, tests of hypotheses, design of experiments, and sampling surveys. Differs from MATH 360 by providing more thorough coverage of theoretical foundations and wider variety of applications, which are drawn from natural and social sciences as well as engineering. 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.

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 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, 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 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)(Offered on demand)(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 301, MATH 361 and MATH 275.

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)(Even years). Provides an application of the various disciplines in statistics to data analysis, 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 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 OUTCOME 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 490-490G MATHEMATICS IN SECONDARY SCHOOLS (4-0-4)(F). Objectives, content, and methods of secondary school mathematics programs. PREREQ: MATH 270 and six hours of mathematics completed at or above the 300-level or PERM/INST.

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.)

Department of Mechanical and Biomedical Engineering

College of Engineering

Engineering & Technology Building, Room 201 Telephone 208 426-4078
http://coen.boisestate.edu/me/ Fax 208 426-4800

Chair and Associate Professor: James Ferguson. *Professors:* Dawson, Eggert, Gardner, Guarino, Parks, Sabick, Tennyson. *Assistant Professor:* Plumlee, Senocak.

Degrees Offered

- B.S. in Mechanical Engineering (B.S.M.E.)
- M.Engr. in Mechanical Engineering (See the *BSU Graduate Catalog*)
- M.S. in Mechanical Engineering (See the *BSU Graduate Catalog*)

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. From mountain bikes to disk drives, mechanical engineers are involved in all aspects of mechanical and electromechanical 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, mechatronics, thermal systems, vibrations and controls, and HVAC. Graduates are well prepared to enter the workplace or to further their education in graduate schools.

The department sponsors student chapters of the American Society of Mechanical Engineers (ASME) and the American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE) and the Society of Automotive Engineers (SAE).

Educational Objectives

Upon successful completion of the course of study encompassed by our undergraduate program, our students will be able to:

1. Use their knowledge and expertise in mathematics, science, and engineering to solve problems from a wide range of fields and use these problem-solving skills in an integrated and intelligent manner for the analysis of complex engineering systems and the competent design of engineering systems and components.
2. Recognize the need for experiments and be able to design, carry out and interpret the results of an experimental program.
3. Successfully communicate the content and importance of their work to a broad range of audiences using a wide variety of media. This includes communication and operations of a multi-disciplinary team environment. In addition, our students are expected to maintain the highest standards of personal and professional integrity and ethical responsibilities.
4. Continue their education, both formally and informally, by making use of their research and study skills that were developed at Boise State. These skills are essential to the extension of the students' technical skills and the proper understanding of their work in a social, ethical, and economic context.

Engineering Design in Mechanical 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

Mechanical Engineering B.S.M.E.	
Course Number and Title	**Credits**
ENGL 101-102 English Composition	6
Area I—see page 45 for list of approved courses	
Area I core course in one field	3
Area I core course in a second field	3
Area I core course in any field	3
Area II—see page 45 for list of approved courses	
COMM 101 Fundamentals of Speech Communication	3
Area II core course in a second field	3
Area II core course in any field	3
Area III	
Area III requirements are automatically met by specific courses included in the major requirements below.	
CHEM 111 General Chemistry	4
ENGL 202 Technical Communication	3
ENGR 120 Introduction to Engineering	3
ENGR 210 Engineering Statics	3
ENGR 220 Engineering Dynamics	3
ENGR 240 Electrical and Electronic Circuits	3
ENGR 245, 245L Introduction to Materials Science and Engineering and Lab	4
ENGR 320 Thermodynamics I	3
ENGR 330, 331 Fluid Mechanics and Lab	4
ENGR 350 Engineering Mechanics of Materials	3
MATH 170, 175 Calculus I and Calculus II	8
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	3-4
ME 105 Mechanical Engineering Graphics	3
ME 280 Mechanical Engineering Design	3
ME 320, 321 Heat Transfer and Lab	4
ME 352 Applied Mechanics of Materials	3
ME 380 Kinematics and Machine Dynamics	4
ME 410 Mechanical Engineering Lab	3
ME 424 Thermal and Fluids Systems Design	3
ME 462 Machine Design	3
ME 481 Senior Design Project I	2
ME 483 Senior Design Project II	2
PHYS 211, 211L Physics I with Calculus and Lab	5
PHYS 212, 212L Physics II with Calculus and Lab	5
*Mechanical Engineering Applied Thermodynamics elective (ME 325 or ME 420)	3
*Mechanical Engineering Design elective	3
*Mechanical Engineering Technical electives	3
*Technical electives	3
Total	128-129

NOTE: *All university core courses and technical and design electives must be approved by the student's advisor. Technical electives are any ME, CE, ECE, or ENGR courses numbered above 300 not required in the ME curriculum. Other suitable courses may be used as technical electives subject to approval of the Department of Mechanical Engineering.

Course Offerings

See page 65 for a definition of the course-numbering system.

ENGR—ENGINEERING SCIENCE

See page 133 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 147 or satisfactory placement score for MATH 170.

ME 280 MECHANICAL ENGINEERING DESIGN (2-3-3)(F/S). Modern engineering design and production processes. Use of computer programs to develop 3-D geometric models for visualization, documentation, and generation of automated machining code. Concepts and methodologies reinforced through design projects. PREREQ: ENGR 120, ME 105, PHYS 211.

Upper Division

ME 320 HEAT TRANSFER (3-0-3)(F/S). Steady and unsteady heat transfer by conduction, free and forced convection, and radiation. PREREQ: ENGR 320, ENGR 330, MATH 275, and MATH 333. COREQ: ME 321.

ME 321 HEAT TRANSFER LAB (0-3-1)(F/S). Heat transfer experiments, measurements, data acquisition and data analysis. Conduction, free and forced convection, radiation and computational heat transfer. COREQ: ME 320.

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. COREQ: ENGR 330.

ME 352 APPLIED MECHANICS OF MATERIALS (3-0-3)(F/S). Multidimensional stress and strain, energy methods, and failure theories. Introduction to plasticity, fatigue, nonlinearity, and stress concentrations. Analysis of thick-walled cylinders, pressure vessels, columns, buckling, plates, beams, and shells using computer methods. PREREQ: ENGR 350.

ME 360 (ECE 360) SYSTEM MODELING AND CONTROL (3-0-3)(F/S). Modeling and simulation of physical systems. Transfer functions, block diagrams, and signal-flow graphs. State-variable analysis of linear systems and stability. Steady-state and transient specifications. Root locus technique. Design of feedback control systems. May be taken for ECE or ME credit, but not both. PREREQ: (ECE 225 and ECE 288) or (ENGR 220 and ENGR 240).

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 (3-3-4)(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, and structured programming.

ME 402-402G 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 410 MECHANICAL ENGINEERING LAB (1-6-3)(F/S). Theoretical and practical techniques for designing and conducting engineering experiments. Student projects emphasize design of experiments, data acquisition, data analysis, and error analysis. Emphasis on technical communication. PREREQ: ME 320, ME 352, ENGR 240, and MATH 360.

ME 420-420G 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 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: ENGR 330 and ME 320.

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: ENGR 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: ENGR 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. PREREQ: ME 240.

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: ENGR 350, ME 240, 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: ENGR 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: ENGR 350 and MATH 275.

ME 456 INTRODUCTION TO SOLID BIOMECHANICS (3-0-3)(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 220 or PERM/INST.

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)(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 (3-0-3)(F). Development and application of methods for the design of machine components such as brakes, bearings, clutches, shafts, springs, gears and fasteners. PREREQ: MATH 360 or MATH 361, ENGR 245, ME 280, ME 352 and ME 380.

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: ENGR 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, ENGR 350, structured programming, and senior standing.

ME 472-472G 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 (1-3-2)(F). First course for mechanical engineers in capstone design. Integration of previous course work 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. 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 (1-3-2)(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.

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: ENGR 330 and ENGR 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, ENGR 350, ME 280, and ENGR 245.

ME 486-486G 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: ENGR 350, ME 240, ME 280.

Medical Technology, Pre-Professional Program—see Department of Community and Environmental Health

Medicine, Pre-Professional Program—see Department of Community and Environmental Health

Mexican-American Studies Minor—see Department of Sociology

Department of Military Science (Army ROTC)

College of Social Sciences and Public Affairs

Taco Bell Arena, Room 2016 Telephone 208 426-3500
http://armyrotc.boisestate.edu Fax 208 343-0543
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CADRE: Chair and Assistant Professor: LTC Phillip A. Chambers. *Assistant Professors:* Blamires, Schoonover, Nelson. *Instructor:* Gill.

Degrees Offered

- Minor in Military Science

Department Statement

The Reserve Officers' Training Corps (ROTC) was established at Boise State University in 1976 under provisions recommended to the State Board of Education and in accordance with national requirements. Participation by students in the program is voluntary.

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.

Scope of Instruction

Instruction in ROTC is divided into the basic course and the advanced course. Each is described below.

General The complete course of instruction leading to a commission as a Second Lieutenant consists of four years of academic classes and one four-week summer camp, or two years of academic classes and two summer camps. Training in leadership is emphasized. Instruction is given on subjects common to all branches of the Army, with emphasis placed on the following: organization of the Army and ROTC; military history; management; leadership; team building; map reading, land navigation and orienteering; U.S. Army and national security; military teaching principles; tactics; communications; operations; logistics; administration; military law; and the role of the United States military in world affairs.

Basic Course There is no military obligation incurred by attending basic course classes for non-scholarship students. The basic course consists of the first two years of military science, normally taken during the freshman and sophomore years. Satisfactory completion of the basic course fulfills one of the requirements for acceptance into the advanced course. Those students desiring to take the advanced course, but lacking the credit for the basic course, may satisfy the requirements by attending a four-week summer camp between their sophomore and junior year, or by completing Military Basic Training. Veterans and Reserve/National Guard members may receive credit for the basic course.

Advanced Course Students who wish to enroll in the advance course curriculum in Military Science must first apply and be accepted to upper-division status. In addition to the requirements of the basic course, the advanced course requires two additional years of military science and a four-week Leadership Development and Assessment Course. This course provides practical application of instruction previously given. Admission to the advanced course is by permission of the chair of the Department of Military Science.

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.
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 33rd birthday.
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 Leadership Development and Assessment 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 of four parts, a baccalaureate degree; completion of Military Science Leadership Advanced Course (MILSCI 301 through 402) and the Leadership Development and Assessment course; completion of the Enhanced Skills Training Program (ESTP) and demonstrated proficiency in Military History.
   a. **Military History** *Recommended Courses:* from an upper-division course in American military history that improves the cadet's understanding of the evolution of war, the evolution of the professionalism in the American military, and the place of the American military in its society. *Alternative Courses:* upper-division course in the history of war, history of U.S. foreign policy in the 20th century, and advanced history course approved by the Professor of Military Science that meets the requirement.
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 Reserves or Army 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 Idaho 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. There is an additional stipend available for books and supplies. Students selected for a scholarship will serve as a Commissioned Officer in the National Guard, Reserves, or Active Duty Army.

Contracted students receive a tiered educational stipend during the school year which pays freshmen $300 per month; sophomores $350 per month; juniors $450 per month; and seniors $500 per month.

Students may contact local National Guard or Reserve units to inquire about educational benefits available. 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**
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	18

Course Offerings

See page 65 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 (1-1-1). 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 102 FOUNDATIONS IN LEADERSHIP (1-1-1). 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 104 CORPS PHYSICAL FITNESS (0-4.5-2)(F,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 relationship. May be repeated for credit. PREREQ: PERM/CHAIR.

MILSCI 201 APPLIED TACTICAL LEADERSHIP (2-1-2). 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 202 INNOVATIVE TACTICAL LEADERSHIP (2-1-2). 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.

Upper Division

MILSCI 301 ADAPTIVE TEAM LEADERSHIP (3-1-3)(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 302 LEADERSHIP IN CHANGING ENVIRONMENTS (3-1-3)(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 390 MILITARY SCIENCE PRACTICUM (V-V-6)(SU). Application of the leadership skills learned at the four-week ROTC (LDAC) at Fort Lewis, Washington. NOTE: This is required of all contracted students and is usually required between the junior and senior year.

MILSCI 401 DEVELOPING ADAPTIVE LEADERS (3-1-3)(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 402 LEADERSHIP IN A COMPLEX WORLD (3-1-3)(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 493 MILITARY SCIENCE INTERNSHIP (V-V-6). Application of skills while membership in ROTC and Army Reserve/National Guard. PREREQ: PERM/CHAIR.

Department of Modern Languages and Literatures

College of Arts and Sciences

Library, Room 140-B Telephone 208 426-3956
http://modlang.boisestate.edu Fax 208 426-5909
e-mail: ldawkins@boisestate.edu or marthamendoza@boisestate.edu

Chair and Professor: Teresa Boucher. *Professor:* Browning. *Associate Professors:* Garza, Henderson. *Assistant Professors:* Herbeck, Kane, Norman. *Visiting Assistant Professor:* Lete. *Spanish Language Coordinator:* Cornwall. *Special Lecturers:* Devereux Herbeck, Ehara, Gómez, Kortazar, Pauken, Sibrian, Wei.

Degrees Offered

- B.A. and Minor in French
- B.A. in French, Secondary Education
- B.A. and Minor in German
- B.A. in German, Secondary Education
- B.A. and Minor in Spanish
- B.A. in Spanish, Secondary Education
- Minor in Basque Studies
- Minor in Chinese Studies
- Minor in Japanese Studies

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 Modern Languages and Literatures 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, as well as language instruction in American Sign Language, Arabic, Basque, Japanese and Mandarin Chinese.

Special encouragement is given to students who wish to pursue a minor emphasis in a modern language to support 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 modern languages have the latitude and flexibility to fit nearly any career goal.

The Department of Modern Languages and Literatures 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 the Office of International Programs 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 in order to be placed into the correct class. You can pay the $5.00 fee, take the exam, and receive your results immediately at the Assessment Center, TS 115. For testing hours, call 426-2762. You will need your student ID card.

For placement in Arabic, ASL, Basque, Chinese, or Japanese, arrange for a free Placement Interview by contacting the Department of Modern Languages and Literatures at 426-3956.

Language Resource Center

Computers, language software, videos, DVDs, conversation lab, and satellite TV in the Modern Languages Resource Center, Library, Room 144, assist students in their language studies. Most 100-, 200-, and 303-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, Mandarin Chinese, and Spanish. External challenge exams are available for 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. 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.

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, 102) and intermediate (FRENCH 201, 202, 203) French — 16 credit hours. Competency must be demonstrated by course work 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), which must be taken during the last year of the program.
4. Secondary Education majors should also consult with the Department of Curriculum, Instruction, and Foundational Studies catalog listing for current education requirements.

French
Bachelor of Arts

Course Number and Title	Credits
ENGL 101-102 English Composition	6
Area I—see page 45 for list of approved courses	
FRENCH 201-202 Intermediate French	6
Area I core course in literature	3
Area I core course in a third field	3
Area II—see page 45 for list of approved courses	
Area II core course in history	3
Area II core course in a second field	3
Area II core course in a third field	3
Area II core course in any field	3
Area III—see page 45 for list of approved courses	
Area III core course in mathematics	3-5
Area III core course in a second field	4
Area III core course in any field	4
FRENCH 101-102 Elementary French	8
FRENCH 203 Intermediate French Conversation	2
FRENCH 303 Advanced French Conversation and Composition	3
FRENCH 304 Intro to French and Francophone Literatures	3

—continued—

French (continued)	
FRENCH 376 French Culture	3
FRENCH 404 Survey of French Literature	3
FRENCH 412 Advanced French Grammar and Pronunciation	3
FRENCH 498 Senior Seminar	3
FRENCH 475 France Today **OR** FRENCH 485 The Francophone World Today	3
Upper-division French electives	9
Upper-division electives to total 40 credits	10
Electives to total 128 credits	35-37
Total	128

French, Secondary Education
Bachelor of Arts

Course Number and Title	Credits
ENGL 101-102 English Composition	6
Area I—see page 45 for list of approved courses	
FRENCH 201-202 Intermediate French	6
Area I core course in literature	3
Area I core course in a third field	3
Area II—see page 45 for list of approved courses	
ED-CIFS 201 Foundations of Education	3
Area II core course in history	3
Area II core course in a third field	3
Area II core course in any field	3
Area III—see page 45 for list of approved courses	
Area III core course in mathematics	3-5
Area III core course in a second field	4
Area III core course in any field	4
*ED-CIFS 301 Teaching Experience I	1
*ED-CIFS 302 Learning and Instruction	4
*ED-CIFS 401 Professional Year—Teaching Experience II	2
*ED-LTCY 444 Content Literacy for Secondary Students	3
*ED-SPED 350 Teaching Students with Exceptional Need at the Secondary Level	3
*Teaching Experience III/IV	16
NOTE: *You must apply for admission to secondary teacher education in order to enroll in these upper-division education courses. Completion of all requirements for graduation with a secondary education option may require more than 128 credit hours. See "Department of Curriculum, Instruction, and Foundational Studies" for more information.	
EDTECH 202 Educational Technology	3
FORLNG 410 Approaches to Foreign Language Education	3
FRENCH 101-102 Elementary French	8
FRENCH 203 Intermediate French Conversation	2
FRENCH 303 Advanced French Conversation and Composition	3
FRENCH 304 Intro to French and Francophone Literatures	3
FRENCH 376 French Culture	3
FRENCH 404 Survey of French Literature	3
FRENCH 412 Advanced French Grammar and Pronunciation	3
FRENCH 498 Senior Seminar	3
FRENCH 475 France Today **OR** FRENCH 485 The Francophone World Today	3
LING 305 Introduction to Language Studies	3
Upper-division French electives	9
Electives to total 128 credits	7-9
Total	128

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. Competency must be demonstrated by course work or placement/challenge procedures.
2. The program must be developed in consultation with a major advisor in German.
3. The candidate must demonstrate his or her level of linguistic and cultural competency in German by successfully completing GERMAN 498 Senior Seminar during the last year of study.
4. Secondary Education majors should also consult with the Department of Curriculum, Instruction, and Foundational Studies catalog listing for current education requirements.

German
Bachelor of Arts

Course Number and Title	Credits
ENGL 101-102 English Composition	6
Area I—see page 45 for list of approved courses	
GERMAN 101-102 Elementary German I and II	8
Area I core course in literature	3
Area I core course in a third field	3
Area II—see page 45 for list of approved courses	
Area II core course in history	3
Area II core course in a second field	3
Area II core course in a third field	3
Area II core course in any field	3
Area III—see page 45 for list of approved courses	
Area III core course in mathematics	3-5
Area III core course in a second field	4
Area III core course in any field	4
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
GERMAN 404 Survey of German Literature I	3
GERMAN 405 Survey of German Literature II	3
GERMAN 475 The German-Speaking World Today	3
GERMAN 498 Senior Seminar	3
Upper-division German courses	9
Upper-division electives to total 40 credits	10
Electives to total 128 credits	35-37
Total	128

German, Secondary Education
Bachelor of Arts

Course Number and Title	Credits
ENGL 101-102 English Composition	6
Area I—see page 45 for list of approved courses	
GERMAN 101-102 Elementary German	8
Area I core course in literature	3
Area I core course in a third field	3
Area II—see page 45 for list of approved courses	
ED-CIFS 201 Foundations of Education	3
Area II core course in history	3
Area II core course in a third field	3
Area II core course in any field	3

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German, Secondary Education (continued)	
Area III—see page 45 for list of approved courses	
Area III core course in mathematics	3-5
Area III core course in a second field	4
Area III core course in any field	4
*ED-CIFS 301 Teaching Experience I	1
*ED-CIFS 302 Learning and Instruction	4
*ED-CIFS 401 Professional Year—Teaching Experience II	2
*ED-LTCY 444 Content Literacy for Secondary Students	3
*ED-SPED 350 Teaching Students with Exceptional Needs at the Secondary Level	3
*Teaching Experience III/IV NOTE: *You must apply for admission to secondary teacher education in order to enroll in these upper-division education courses. Completion of all requirements for graduation with a secondary education option may require more than 128 credit hours. See "Department of Curriculum, Instruction, and Foundational Studies" for more information.	16
EDTECH 202 Educational Technology	3
FORLNG 410 Approaches to Foreign Language Education	3
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
GERMAN 404 Survey of German Literature I	3
GERMAN 405 Survey of German Literature II	3
GERMAN 475 The German-Speaking World Today	3
GERMAN 498 Senior Seminar	3
Upper-division German courses	9
LING 305 Introduction to Language Studies	3
Electives to total 128 credits	7-9
Total	128

1. To begin the program for the B. A. in Spanish, the student must demonstrate proficiency in Spanish equivalent to the completion of elementary courses (SPANISH 101, 102 or SPANISH 108 or SPANISH 111, 112, 113, 114) and intermediate Spanish (SPANISH 201, 202, or SPANISH 201, 203) for a total of 16 credit hours. Proficiency must be demonstrated by course work 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.
4. Secondary Education majors should also consult with the Department of Curriculum, Instruction, and Foundational Studies catalog listing for current education requirements.

Spanish
Bachelor of Arts

Course Number and Title	Credits
ENGL 101-102 English Composition	6
Area I—see page 45 for list of approved courses	
SPANISH 201-202, or SPANISH 201, 203 Intermediate Spanish	8
Area I core course in literature	3
Area I core course in a third field	3
Area II—see page 45 for list of approved courses	
Area II core course in history	3
Area II core course in a second field	3
Area II core course in a third field	3
Area II core course in any field	3

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Spanish (continued)	
Area III—see page 45 for list of approved courses	
Area III core course in mathematics	3-5
Area III core course in a second field	4
Area III core course in any field	4
SPANISH 101-102 or SPANISH 108 Elementary Spanish	8
SPANISH 303 Advanced Spanish Conversation and Composition	3
SPANISH 304 Introduction to Hispanic Literature	3
SPANISH 412 Advanced Spanish Grammar and Syntax	3
SPANISH 498 Senior Seminar	3
SPANISH 376 Spanish Peninsular Civilization and Culture **OR** SPANISH 377 Latin American Civilization and Culture **OR** SPANISH 385 Mexican American Civilization and Culture	3
SPANISH 403, 404 Survey of Latin American Literature I & II **OR** SPANISH 405, 406 Survey of Spanish Peninsular Literature I & II	6
Upper-division Spanish courses Only 3 credit hours of electives may be from SPANISH 496.	9
Upper-division electives to total 40 credits	10
Electives to total 128 credits	35-37
Total	128

Spanish, Secondary Education
Bachelor of Arts

Course Number and Title	Credits
ENGL 101-102 English Composition	6
Area I—see page 45 for list of approved courses	
SPANISH 201-202, or SPANISH 201, 203, or Intermediate Spanish	8
Area I core course in literature	3
Area I core course in a third field	3
Area II—see page 45 for list of approved courses	
ED-CIFS 201 Foundations of Education	3
Area II core course in history	3
Area II core course in a third field	3
Area II core course in any field	3
Area III—see page 45 for list of approved courses	
Area III core course in mathematics	3-5
Area III core course in a second field	4
Area III core course in any field	4
*ED-CIFS 301 Teaching Experience I	1
*ED-CIFS 302 Learning and Instruction	4
*ED-CIFS 401 Professional Year—Teaching Experience II	2
*ED-LTCY 444 Content Literacy for Secondary Students	3
*ED-SPED 350 Teaching Students with Exceptional Needs at the Secondary Level	3
*Teaching Experience III/IV NOTE: *You must apply for admission to secondary teacher education in order to enroll in these upper-division education courses. Completion of all requirements for graduation with a secondary education option may require more than 128 credit hours. See "Department of Curriculum, Instruction, and Foundational Studies" for more information.	16
EDTECH 202 Educational Technology	3
FORLNG 410 Approaches to Foreign Language Education	3
LING 305 Introduction to Language Studies	3
SPANISH 101-102 or SPANISH 108 Elementary Spanish	8
SPANISH 303 Advanced Spanish Conversation and Composition	3
SPANISH 304 Introduction to Hispanic Literature	3
SPANISH 412 Advanced Spanish Grammar and Syntax	3
SPANISH 498 Senior Seminar	3

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Spanish, Secondary Education (continued)	
SPANISH 376 Spanish Peninsular Civilization and Culture **OR** SPANISH 377 Latin American Civilization and Culture **OR** SPANISH 385 Mexican American Civilization and Culture	3
SPANISH 403, 404 Survey of Latin American Literature I & II **OR** SPANISH 405, 406 Survey of Spanish Peninsular Lit I & II	6
Upper-division Spanish courses Only 3 credit hours of electives may be from SPANISH 496.	9
Electives to total 128 credits	7-9
Total	128

Basque Studies Minor

Course Number and Title	Credits
BASQUE 101-102 Elementary Basque I and II	8
Electives chosen from: BASQUE 201-202 Intermediate Basque I & II BASQUE 203 Intermediate Basque Conversation BASQUE 301 Advanced Basque BASQUE 493 Internship: Ikastola (Boise Basque Preschool) BASQ-STD 123 Basque Dance BASQ-STD 129 Basque Cuisine BASQ-STD 323 Basque Politics BASQ-STD 335 Basque Culture BASQ-STD 353 The Arts in the Basque Country BASQ-STD 377 Basque History to 1700 BASQ-STD 378 Modern Basque History BASQ-STD 379 Basque Migration to the Americas BASQ-STD 380 Colloquium in Basque Studies BASQ-STD 439 Foreign Study BASQ-STD 493 Internship: Basque Museum and Cultural Center BASQ-STD 494 Workshop in Basque Studies SPANISH 450 Basque Literature in Spanish Translation SPANISH 491 Basque Cinema 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

Chinese Studies Minor

Course Number and Title	Credits
CHINESE 101-102 Elementary Mandarin Chinese I & II CHINESE 201-202 Intermediate Mandarin Chinese I & II	8 8
HIST 121 Eastern Civilizations	3
Electives chosen from the following: ART 103, ART 352, FORLNG 320, FORLNG 321, HIST 373, HIST 374, PHIL 221	6
Total	25

French Minor: Cultural, Literary Emphasis

Course Number and Title	Credits
FRENCH 201-202 Intermediate French FRENCH 203 Intermediate French Conversation FRENCH 303 Advanced French Conversation and Composition FRENCH 304 Intro to French and Francophone Literatures FRENCH 412 Advanced French Grammar and Pronunciation	6 2 3 3 3
FRENCH 376 French Culture **OR** FRENCH 475 France Today **OR** FRENCH 485 The Francophone World Today	3
Upper-division French courses	3
Total	23

French Minor: Business Emphasis

Course Number and Title	Credits
FRENCH 201-202 Intermediate French FRENCH 203 Intermediate French Conversation FRENCH 303 Advanced French Conversation and Composition FRENCH 307 French for Business FRENCH 412 Advanced French Grammar and Pronunciation	6 2 3 3 3
FRENCH 376 French Culture **OR** FRENCH 475 France Today **OR** FRENCH 485 The Francophone World Today	3
Upper-division French courses	3
Total	23

German Minor: Literature and Culture Emphasis

Course Number and Title	Credits
GERMAN 201-202 Intermediate German GERMAN 203 Intermediate German Conversation GERMAN 303 Advanced German Conversation and Composition GERMAN 304 Introduction to German Literature GERMAN 377 German Culture and Civilization	6 2 3 3 3
Upper-division German courses	6
Total	23

German Minor: Business Emphasis

Course Number and Title	Credits
GERMAN 201-202 Intermediate German GERMAN 203 Intermediate German Conversation GERMAN 303 Advanced German Conversation & Composition GERMAN 307 Business German GERMAN 412 Advanced German Grammar and Syntax GERMAN 475 The German-Speaking World Today	6 2 3 3 3 3
Upper-division German courses	3
Total	23

Japanese Studies Minor

Course Number and Title	Credits
FORLNG 310 Japanese Culture and Society	3
JAPANESE 101-102 Elementary Japanese I & II JAPANESE 201-202 Intermediate Japanese I & II	8 8
Electives chosen from the following: ANTH 209, ARTHIST 103, ARTHIST 357, HIST 121, PHIL 221, POLS 328	6
Total	25

Spanish Minor: Primary, Secondary, Bilingual Education, or Spanish Emphasis

Course Number and Title	Credits
SPANISH 201-202 or SPANISH 201, 203 or Intermediate Spanish SPANISH 303 Advanced Spanish Conversation and Composition SPANISH 304 Introduction to Hispanic Literature SPANISH 412 Advanced Spanish Grammar and Syntax	8 3 3 3
SPANISH 376 Spanish Peninsular Civilization and Culture **OR** SPANISH 377 Latin American Civilization and Culture **OR** SPANISH 385 Mexican American Civilization and Culture	3
Upper-division Spanish courses	3
Total	23

Spanish Minor: Business Emphasis	
Course Number and Title	**Credits**
SPANISH 201-202 or SPANISH 201, 203 or Intermediate Spanish	8
SPANISH 303 Advanced Spanish Conversation & Composition	3
SPANISH 305 Spanish for Business	3
SPANISH 480 Advanced Business Topics in the Spanish Speaking World	3
SPANISH 376 Spanish Peninsular Civilization and Culture **OR** SPANISH 377 Latin American Civilization and Culture **OR** SPANISH 385 Mexican American Civilization and Culture	3
Upper-division Spanish courses	3
Total	23

Modern Language Minor Certification Endorsement	
Course Number and Title	**Credits**
LING 305 Introduction to Language Studies	3
FORLNG 410 Approaches to Foreign Language Education	3
French	
FRENCH 101-102 Elementary French	8
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	34
German	
GERMAN 101-102 Elementary German	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	34
Spanish	
SPANISH 101-102 or SPANISH 108 or SPANISH 111-112-113-114 Elementary Spanish	8
SPANISH 201-202 or SPANISH 201-203 Intermediate Spanish	8
SPANISH 303 or 313 Advanced Spanish Conversation and Composition	3
SPANISH 304 Introduction to Hispanic Literature	3
SPANISH 412 Advanced Spanish Grammar and Syntax	3
Spanish courses selected from: SPANISH 376 Spanish Peninsular Civilization and Culture; SPANISH 377 Latin American Civilization and Culture; SPANISH 385 Mexican American Civilization and Culture	3
Total	34

Course Offerings

See page 65 for a definition of the course-numbering system.

ARABIC

Lower Division

ARABIC 101 ELEMENTARY ARABIC I (4-0-4)(F/S)(Area I)(Diversity). 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 (4-0-4)(F/S)(Area I)(Diversity). 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 (4-0-4)(F)(Area I)(Diversity). 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 (4-0-4)(S)(Area I)(Diversity). 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/S)(Area I)(Diversity). Develops beginning abilities in receptive and expressive skills. Offers basic study of grammatical structures and vocabulary in a communicative context. Emphasis placed on the history of sign language and deaf culture. Course conducted primarily in ASL.

ASL 102 AMERICAN SIGN LANGUAGE II (4-1-4)(F/S)(Area I)(Diversity). Continues developing beginning abilities in receptive and expressive skills. Further study of grammatical structures, vocabulary and culture. Course conducted primarily in ASL. PREREQ: ASL 101 or PERM/INST.

ASL 201 AMERICAN SIGN LANGUAGE III (4-1-4)(F/S)(Area I)(Diversity). 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)(F/S)(Area I)(Diversity). 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.

BASQUE

Lower Division

BASQUE 101 ELEMENTARY BASQUE I (4-1-4)(F/S)(Area I)(Diversity). 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)(F/S)(Area I)(Diversity). 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/S)(Area I)(Diversity). 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)(F/S)(Area I)(Diversity). 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). 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 BASQUE HISTORY TO 1700 (3-0-3)(F)(Odd years). 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 MIGRATION TO THE AMERICAS (3-0-3)(F/S). Initiation to the Basque exodus to the Americas from its inception to today. 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.

CHINESE—MANDARIN CHINESE

Lower Division

CHINESE 101 ELEMENTARY MANDARIN CHINESE I (4-0-4)(F/S)(Area I)(Diversity). Develops beginning abilities in all four language skills: speaking, reading, writing, and listening. Offers basic study of grammatical structures and vocabulary in a communicative context. Introduces Simplified Chinese Characters and aspects of Chinese culture.

CHINESE 102 ELEMENTARY MANDARIN CHINESE II (4-0-4)(F/S)(Area I)(Diversity). Continues to develop beginning abilities in all four language skills: speaking, reading, writing, and listening. Offers basic study of grammatical structures and vocabulary in a communicative context. Introduces Simplified Chinese Characters and aspects of Chinese culture. PREREQ: CHINESE 101 or PERM/INST.

CHINESE 201 INTERMEDIATE MANDARIN CHINESE I (4-0-4)(F/S)(Area I)(Diversity). 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 (4-0-4)(F/S)(Area I)(Diversity). 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.

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 Modern Languages and Literatures.

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.

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.

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.

FORLNG 410 APPROACHES TO FOREIGN LANGUAGE EDUCATION (3-0-3)(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/S)(Area I)(Diversity). 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 have had more than one year of high school French may not enroll in FRENCH 101 for credit except by PERM/INST.

FRENCH 102 ELEMENTARY FRENCH II (4-1-4)(F/S)(Area I)(Diversity). 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 equivalent as determined by placement exam.

FRENCH 201 INTERMEDIATE FRENCH I (3-1-3)(F/S)(Area I)(Diversity). 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)(F/S)(Area I)(Diversity). 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 (2-1-2)(F/S). 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/S). 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: FRENCH 202 and FRENCH 203 or PERM/INST.

FRENCH 304 INTRODUCTION TO FRENCH AND FRANCOPHONE LITERATURES (3-0-3)(F/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 (3-0-3)(F/S). 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/S). 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)(F/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)(F/S)(Alternate years). 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/S)(Alternate years). 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/S)(Area I)(Diversity). 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)(F/S)(Area I)(Diversity). 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/S)(Area I)(Diversity). 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)(F/S)(Area I)(Diversity). 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/S). 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/S). 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: GERMAN 202 and GERMAN 203 or PERM/INST.

GERMAN 304 INTRODUCTION TO GERMAN LITERATURE (3-0-3)(F/S). 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)(F/S). 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)(F/S)(Alternate 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/S)(Alternate 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)(F/S)(Alternate 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)(F/S)(Alternate 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/S)(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/S)(Alternate 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/S)(Alternate years). Introduction to a wide range of literary texts by women in the German-speaking world. Discussion of topics such as representation of women in literature and the social and historical climate in which the literature was and is produced. Course conducted in German. PREREQ: 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/S). 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/S)(Area I)(Diversity). Develops beginning abilities in all four language skills: speaking, reading, writing, and listening. Offers basic study of grammatical structures and vocabulary in a communicative context. The course also introduces Katakana, Hiragana, and a limited number of Chinese characters. Course conducted in Japanese.

JAPANESE 102 ELEMENTARY JAPANESE II (4-1-4)(F/S)(Area I)(Diversity). 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 Katakana, Hiragana, and a limited number of Chinese characters. Course conducted in Japanese. Introduces students to Japanese culture PREREQ: JAPANESE 101 or PERM/INST.

JAPANESE 201 INTERMEDIATE JAPANESE I (4-1-4)(F/S)(Area I)(Diversity). 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)(F/S)(Area I)(Diversity). 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.

SPANISH

Lower Division

SPANISH 101 ELEMENTARY SPANISH I (4-1-4)(F/S)(Area I)(Diversity). 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)(Area I)(Diversity). 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. Students who successfully complete SPANISH 113 and SPANISH 114 may not receive credit for SPANISH 102. PREREQ: SPANISH 101 or SPANISH 112 or satisfactory placement score.

SPANISH 108 INTENSIVE ELEMENTARY SPANISH (8-2-8)(F/S)(Area I)(Diversity). Develops beginning abilities in all four language skills: speaking, reading, writing, and listening. Offers a fast-paced study of basic grammatical structures and vocabulary in a communicative context. Introduces students to Hispanic cultures. Covers combined material of SPANISH 101 and SPANISH 102 in one semester. Students who successfully complete this course may not receive credit for SPANISH 101, SPANISH 102, SPANISH 111, SPANISH 112, SPANISH 113, or SPANISH 114.

SPANISH 111 ELEMENTARY SPANISH ONLINE 101A (2-1-2)(F,S)(Area I)(Diversity). 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 or SPANISH 108, and must successfully complete SPANISH 112 with a grade of C or higher in order to receive Area I credit for SPANISH 111.

SPANISH 112 ELEMENTARY SPANISH ONLINE 101B (2-1-2)(F,S)(Area I)(Diversity). 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 or SPANISH 108, and must successfully complete SPANISH 111 with a grade of C or higher in order to receive Area I credit for SPANISH 112. PREREQ: SPANISH 111.

SPANISH 113 ELEMENTARY SPANISH ONLINE 102A (2-1-2)(F,S)(Area I)(Diversity). 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 102. Students who successfully complete this course may not receive credit for SPANISH 102 or SPANISH 108, and must successfully complete SPANISH 114 with a grade of C or higher in order to receive Area I credit for SPANISH 113. PREREQ: SPANISH 112 or SPANISH 101 or satisfactory placement score.

SPANISH 114 ELEMENTARY SPANISH ONLINE 102B (2-1-2)(F,S)(Area I)(Diversity). Continuation of SPANISH 113. Internet access, CD-ROM capability and telephone required for this online, mastery-based course with no classroom instruction. Second half of SPANISH 102. Students who successfully complete this course may not receive credit for SPANISH 102 or

SPANISH 108, and must successfully complete SPANISH 113 with a grade of C or higher in order to receive Area I credit for SPANISH 114. PREREQ: SPANISH 113.

SPANISH 120 SPANISH FOR HEALTH CARE PROFESSIONALS I (3-0-3)(F/S). This course is designed as an introduction to prepare health care professionals to better serve and assist their Spanish-speaking patients. Specific cultural aspects and practices related to health care professionals and patient communication will be addressed. Emphasis on vocabulary building and linguistic forms related to health care issues. Course conducted in Spanish.

SPANISH 121 SPANISH FOR HEALTH CARE PROFESSIONALS II (3-0-3)(F/S). Continued preparation of health care professionals to better serve and assist their Spanish-speaking patients. Specific cultural aspects and practices related to health care professionals and patient communication will be addressed. Emphasis on vocabulary building and linguistic forms related to health care issues. Course conducted in Spanish.

SPANISH 201 INTERMEDIATE SPANISH I (4-1-4)(F/S)(Area I)(Diversity). 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 SPANISH 108 or SPANISH 114 or satisfactory placement score.

SPANISH 202 INTERMEDIATE SPANISH II (4-1-4)(F/S)(Area I)(Diversity). 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)(Area I)(Diversity). 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). 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. PREREQ: 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 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). Course content equivalent to SPANISH 303. Designed for students with native or near-native speaking ability. PREREQ: SPANISH 202 or SPANISH 203 or satisfactory placement score or PERM/INST.

SPANISH 376 SPANISH PENINSULAR CIVILIZATION AND CULTURE (3-0-3)(F/S). Spanish Peninsular 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 CIVILIZATION AND CULTURE (3-0-3)(F/S). Latin American civilization and culture 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 385 MEXICAN AMERICAN CIVILIZATION AND CULTURE (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. 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. 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. 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. PREREQ: SPANISH 304.

SPANISH 412 ADVANCED SPANISH GRAMMAR AND SYNTAX (3-0-3)(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 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 PERM/INST. 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. PREREQ: SPANISH 303 or 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. PREREQ: SPANISH 303 or 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). 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.

Multi-Ethnic Studies—see Department of Sociology

Department of Music

College of Arts and Sciences

Morrison Center, Room C-100 Telephone 208 426-1596
http://www.boisestate.edu/music/musicdpt.html Fax 208 426-1771
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Chair and Professor: Mark Hansen. *Professors:* Baldassarre, Baldwin, Belfy, Berg, Mathie, Parkinson, Saunders. *Associate Professors:* Bratt, Brown, Jirak, Kline-Lamar, Samball, Rushing-Raynes, Wells. *Assistant Professors:* Goodman, Molumby, Moreau, Purdy.

Degrees Offered

- B.A. and Minor in Music
- B.A. in Music/Business
- B.M. in Composition
- B.M. in Music Education
- B.M. in Performance
- M.M. in Music Education, Pedagogy, and Performance (See the *BSU Graduate Catalog*).

Department Statement

The goal of the Department of Music is twofold: (1) to train students to become successful and productive professional musicians, musician teachers, or musician/business people, giving them a thorough and comprehensive background in the art and practice of music; and (2) to heighten musical awareness in the general, nonmajor student. In training the aspiring professional, the goal of excellence in musicianship is defined 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 needs of the university community, as well as the larger community of metropolitan Boise and the State of Idaho, by offering courses, by presenting musical performances for the public's cultural growth and entertainment, by making available faculty and student performers at various community functions, and by providing leadership for many cultural activities in the community.

The Department of Music offers a B.M. in music with three emphases: performance, composition, and music education. The performance and composition emphases are designed to train performers, performing artists, 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 level; 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.

A variety of music scholarships is 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 must perform an audition for the music faculty and take the Music Literacy Predictive Exam. Auditions and exams will take place beginning with the first audition day in spring semester. Students who a) perform an acceptable performance audition, and b) complete the Music Literacy Exam will be granted Music Major status. All other students will be given Pre-Music Major status. Only Pre-Music Major and Music Major status students will be allowed to enroll in MUS 119 Materials of Music I. Only Music Majors will be allowed to enroll in MUS 120 Materials of Music 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:

- bachelor of arts, music and music/business majors, and bachelor of music performance, and composition emphases majors—8 semesters
- bachelor of music-music education emphasis—7 semesters (see course description for MUS-APL 10 for additional details.)

All students must perform on their major instrument before a faculty jury at the end of each semester. Students presenting MUS-APL 444, 445, or 446 recitals are exempt from faculty jury during the semester in which the recital is given.

Major Ensemble All full-time undergraduate music 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 or guitar majors, 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, 2 may be Accompanying, 2 may be Duo-Piano
Guitar – 8 semesters, 4 may be Guitar 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

Additional details are available from the Music Department.

The following **core of music courses** are included in all bachelor of music curricula:

Concert Class MUS-APL 10 (Attendance required each semester of full-time enrollment until a minimum number of semesters of Pass grade is met.)	0
Major Ensemble	7-8
Materials of Music I-IV MUS 119, 120, 219, 220	12
Ear Training I-IV MUS 121, 122, 221, 222	4
Survey of Western Art Music MUS 101	3
Basic Conducting MUS 261	1
Music Education MUS 352, 351, or 353	6
Total	36-37

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:

a) 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.

b) 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 course work 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*.

c) receive the grade of C or better in MUS 119 to have ED-LTCY 444 waived.

d) 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.

e) 1. complete a technology requirement established by the College of Education.

2. successfully complete the PRAXIS II music examinations.

Performance
Bachelor of Music

Course Number and Title	Credits
ENGL 101-102 English Composition	6
Area I—see page 45 for list of approved courses	
MUS 101 Survey of Western Art Music	3
Area I core course in literature	3
Area I core course in any field	3
Area II—see page 45 for list of approved courses	
Area II core course in history	3
Area II core course in a second field	3
Area II core course in any field	3
Area III—see page 45 for list of approved courses	
Area III core course in mathematics	3-5
One semester of a foreign language	4
MUS 119 Materials of Music I	3
MUS 120 Materials of Music II	3
MUS 121 Ear Training I	1
MUS 122 Ear Training II	1
MUS 219 Materials of Music III	3
MUS 220 Materials of Music IV	3
MUS 221 Ear Training III	1
MUS 222 Ear Training IV	1
MUS 261 Basic Conducting	1
MUS 351 Music History and Literature I	3
MUS 352 Music History and Literature II	3
MUS 353 Music History and Literature III	3
MUS 410 Advanced Form and Analysis	2
MUS 424 Counterpoint	3
*MUS-APL 10 Concert Class	0
MUS-APL 108, 109 Class Piano	2
MUS-APL 345 Recital	2
MUS-APL 446 Senior Recital	2
*8 semesters of Pass grade	
MUS-ENS — Major Ensemble	8
MUS-PRV — Performance Studies	22
MUS-PRV 4 — Performance Studies	8

—continued—

Performance (continued)	
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
Electives to total 128 credits	12-14
Total	128
Guitar Option	
MUS 440 Major Instrument Literature/Pedagogy	2
MUS-ENS 127, 327 Chamber Music or Small Ensemble—3 semesters	3
Electives to total 128 credits	15-17
Total	128
Piano Option	
MUS 457 Major Instrument Literature	2
MUS 463, 464 Major Instrument Pedagogy I & II	4
MUS-ENS 127, 327 Chamber Music or Small Ensemble—3 semesters	3
Electives to total 128 credits	11-13
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 & II	4
MUS 465, 466 Diction for Singers I & II	4
Electives to total 128 credits	5-7
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
Electives to total 128 credits	14-16
Total	128

Composition
Bachelor of Music

Course Number and Title	Credits
ENGL 101-102 English Composition	6
Area I—see page 45 for list of approved courses	
MUS 101 Survey of Western Art Music	3
Area I core course in literature	3
Area I core course in any field	3
Area II—see page 45 for list of approved courses	
Area II core course in history	3
Area II core course in a second field	3
Area II core course in any field	3
Area III—see page 45 for list of approved courses	
Area III core course in mathematics	3-5
One semester of a foreign language	4
MUS 119 Materials of Music I	3
MUS 120 Materials of Music II	3

—continued—

Composition (continued)	
MUS 121 Ear Training I	1
MUS 122 Ear Training II	1
MUS 208 Music Technology	2
MUS 219 Materials of Music III	3
MUS 220 Materials of Music IV	3
MUS 221 Ear Training III	1
MUS 222 Ear Training IV	1
MUS 261 Basic Conducting	1
MUS 312 Introduction to Computer Music	3
MUS 324 Orchestration/Band Arranging	2
MUS 351 Music History and Literature I	3
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 410 Advanced Form and Analysis	2
MUS 423, 424 Counterpoint	6
*MUS-APL 10 Concert Class	0
MUS-APL 108, 109 Class Piano	2
MUS-APL 410 Music Composition Symposium	4
MUS-APL 447 Senior Composition Recital	2
*8 semesters of Pass grade	
MUS-ENS — Ensemble	8
MUS-PRV — Lower-division major performance studies	8
MUS-PRV 382 or 482 Composition Lessons	8
MUS-PRV — Lower-division minor performance studies Piano, unless major instrument is Keyboard	8
MUS-PRV 3 — 300-level performance studies	4
Upper-division music courses	3
Electives to total 128 credits	6-8
Total	128

The music education program is designed to assist student in developing the knowledge, skills, and dispositions essential for success in teaching music education in the elementary and secondary schools. The course work combines content knowledge, theories of learning, study of curriculum and methodology. The program is grounded in the conceptual framework of the reflective practitioner, 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.

Music Education
Bachelor of Music

Course Number and Title	Credits
ENGL 101-102 English Composition	6
Area I—see page 45 for list of approved courses	
MUS 101 Survey of Western Art Music	3
Area I core course in literature	3
Area I core course in any field	3
Area II—see page 45 for list of approved courses	
ED-CIFS 201 Foundations of Education	3
PSYC 101 General Psychology	3
Area II core course in history	3
Area III—see page 45 for list of approved courses	
Area III core course in mathematics	3-5
One semester of a foreign language **OR**	4
Area III core course in any field	

—continued—

Music Education (continued)	
*ED-CIFS 301 Teaching: Experience I	1
*ED-CIFS 302 Learning and Instruction	4
*ED-SPED 350 Teaching Students with Exceptional Needs at the Secondary Level	3
NOTE: *You must apply for admission to secondary teacher education in order to enroll in these upper-division education courses. Completion of all requirements for graduation with a secondary education option may require more than 128 credit hours. See "Department of Curriculum, Instruction and Foundational Studies" for more information.	
**MUS 119 Materials of Music I	3
MUS 120 Materials of Music II	3
MUS 121 Ear Training I	1
MUS 122 Ear Training II	1
***MUS 208 Music Technology **OR**	2-3
EDTECH 202 Educational Technology-Classroom Applications	
MUS 219 Materials of Music III	3
MUS 220 Materials of Music IV	3
MUS 221 Ear Training III	1
MUS 222 Ear Training IV	1
MUS 230 Foundations of Music Education	2
MUS 256 Vocal Techniques and Methods **OR**	2
MUS 463 Pedagogy I (if a vocal major)	
MUS 257 String Instrument Techniques and Methods	2
MUS 261 Basic Conducting	1
MUS 325, 326 Instrumental Techniques and Methods	4
MUS 351 Music History and Literature I **OR**	3
MUS 353 Music History and Literature III	
MUS 352 Music History and Literature II	3
MUS 365 Choral Conducting	1
MUS 366 Instrumental Conducting	1
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
**With grade of C or higher this course satisfies the requirement for ED-LTCY 444 ***See Music Education Emphasis Additional Requirements for explanation of this requirement.	
Choose two of the three Professional Year classes below for a total of 16 credits: *MUS 481 Professional Year—Elementary School *MUS 482 Professional Year—Junior High School *MUS 483 Professional Year—High School NOTE: *You must apply for admission to secondary teacher education in order to enroll in these upper-division music courses.	16
*MUS-APL 10 Concert Class	0
MUS-APL 108, 109 Class Piano	2
MUS-APL 444 One-half Senior Recital	1
*7 semesters of Pass grade	
MUS-ENS — Major ensemble	7
MUS-PRV — Major instrument performance studies 4 credits minimum at 300-level or above	14
Electives chosen from: MUS 208 Music Technology *MUS 231 Marching Band Techniques and Methods **MUS 324 Orchestration/Band Arranging MUS 327 Jazz Techniques ***MUS 328 Advanced Piano and Accompanying MUS 351 Music History and Literature I **OR** MUS 353 Music History and Literature III MUS 370 Guitar for Classroom Teachers MUS 454 Secondary General Music Methods MUS 463 String Pedagogy MUS 465 Diction I *Required for wind/brass/percussion majors **Required for string/wind/brass/percussion majors ***Required for vocal majors	6
Total	133-136
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
ENGL 101-102 English Composition	6
Area I—see page 45 for list of approved courses	
MUS 101 Survey of Western Art Music	3
Area I core course in literature	3
Area I core course in a second field	3
Area I core course in any field	3
Area II—see page 45 for list of approved courses	
Area II core course in history	3
Area II core course in a second field	3
Area II core course in a third field	3
Area II core course in any field	3
Area III—see page 45 for list of approved courses	
Area III core course in mathematics	3-5
Area III core course in a second field	4
Area III core course in any field	4
MUS 119 Materials of Music I	3
MUS 120 Materials of Music II	3
MUS 121 Ear Training I	1
MUS 122 Ear Training II	1
MUS 219 Materials of Music III	3
MUS 220 Materials of Music IV	3
MUS 221 Ear Training III	1
MUS 222 Ear Training IV	1
MUS 352 History and Literature of Music II	3
MUS 351 History and Literature of Music I **OR**	3
MUS 353 History and Literature of Music III	
*MUS-APL 10 Concert Class	0
Senior Recital **OR	1
***Senior Project	
*8 semesters of Pass grade **See MUS-APL 444 course description for details of the Senior Recital. ***An MUS-APL 496 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.	
MUS-ENS — Major ensemble	4
MUS-PRV — Performance studies	8
Performance, theory, music education, or music history courses to support Senior Recital or Senior Project	8
Upper-division electives to total 40 credits	33
Electives to total 128 credits	9-11
Total	128

Music/Business
Bachelor of Arts

Course Number and Title	Credits
ENGL 101-102 English Composition	6
Area I—see page 45 for list of approved courses	
MUS 101 Survey of Western Art Music	3
Area I core course in literature	3
Area I core course in a second field	3
Area I core course in any field	3
Area II—see page 45 for list of approved courses	
COMM 101 Fund of Speech Communication	3
ECON 201 Principles of Macroeconomics	3
ECON 202 Principles of Microeconomics	3
Area II core course in history	3

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Music/Business (continued)	
Area III—see page 45 for list of approved courses	
MATH 124 Introduction to Mathematical Thought **OR**	4
MATH 130 Finite Mathematics **OR**	4
MATH 160 Survey of Calculus	4
Area III core course in a second field	
Area III core course in any field	
ACCT 205 Introduction to Financial Accounting	3
FINAN 208 Personal Finance	3
GENBUS 101 Introduction to Business	3
GENBUS 202 The Legal Environment of Business	3
ITM 104 Operating Systems and Word Processing	1
ITM 105 Spreadsheet Topics	1
ITM 106 Database Topics	1
ITM 310 Business Intelligence	3
MGMT 301 Leadership Skills	3
MKTG 301 Principles of Marketing	3
MKTG 307 Customer Behavior	3
MUS 119 Materials of Music I	3
MUS 120 Materials of Music II	3
MUS 121 Ear Training I	1
MUS 122 Ear Training II	1
MUS 219 Materials of Music III	3
MUS 221 Ear Training III	1
MUS 352 Music History and Literature II	3
MUS 351 Music History and Literature I **OR**	3
MUS 353 Music History and Literature III	
MUS 493 Internship	3
*MUS-APL 10 Concert Class	0
MUS-APL 496 Senior Project	3
*8 semesters of Pass grade	
MUS-ENS — Major ensemble	4
MUS-PRV — Performance studies Must study for one semester at the MUS-PRV 200 level	8
Upper-division electives to total 40 credits	19
Electives to total 128 credits	4
Total	128

Music Minor

Course Number and Title	Credits
MUS-APL 10 Concert Class 2 semesters of Pass grade	0
MUS-ENS 1— Ensemble	2
MUS 100 Introduction to Music (Area I)	3
MUS 119 Materials of Music I	3
MUS 120 Materials of Music II	3
MUS 121 Ear Training I	1
MUS 122 Ear Training II	1
Choice of 2 semesters of MUS-APL 150 Piano Class, MUS-APL 180 Voice Class, MUS-APL 127, 128 Beginning Guitar **AND/OR** Intermediate Guitar Class, or private lessons (MUS-PRV courses*) in any instrument or voice *MUS-PRV courses are extra fee courses	2-4
Upper-division music courses	5
Total	20-22

Course Offerings

See page 65 for a definition of the course-numbering system.

MUS-APL—MUSIC APPLIED PERFORMANCE CLASSES, RECITALS

Lower Division

MUS-APL 10 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, 109 CLASS PIANO (1-1-1)(F/S). Major and minor scales and cadences, basic accompanying, transposition, harmonization, score-reading and sight-reading.

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 (1-0-1)(F/S). Intended primarily for instrumental majors, this performance-oriented course deals with the principles of jazz harmony and scaler theory. These principles will be applied to selected exercises and standard jazz literature. Students should possess above-average technical facility on their instrument and should have a working knowledge of music theory. May be repeated once for credit. PREREQ: MUS 119 or PERM/INST.

MUS-APL 150 BEGINNING PIANO CLASS (0-1-1)(F/S). This course is for music majors who have had little or no previous instruction in piano playing. May be taken a maximum of two times for credit. PREREQ: Music majors.

MUS-APL 153 INTERMEDIATE PIANO CLASS (0-1-1)(F/S). Class instruction for music majors in level one intermediate piano. PREREQ: Music major, MUS-APL 150 or equivalent; or PERM/INST.

MUS-APL 154 INTERMEDIATE PIANO CLASS (0-1-1)(F/S). Class instruction for music majors in level two intermediate piano. PREREQ: Music major, MUS-APL 150 or MUS-APL 153 or equivalent; or PERM/INST.

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 (1-0-1)(F/S). The second level and continuation of Jazz Improvisation. More advanced principles and skills will be dealt with. 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. 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 RECITAL (0-V-2). Solo recital given prior to the required senior solo recital at any time subsequent to the freshman year. Graded pass/fail. PERM/INST.

MUS-APL 410 MUSIC COMPOSITION SYMPOSIUM (1-0-1)(F,S). Instruction and supervised experience in composing for various instruments and voices, individually and in combination, utilizing small and large musical forms. May be repeated for a total of 4 credits. COREQ: MUS-PRV 3X2 or MUS-PRV 4X2 Composition Lessons.

MUS-APL 429 JAZZ IMPROVISATION IV (0-1-2)(F/S). Private lessons in Jazz Improvisation. Extra fee, nonwaivable, per private less fee schedule, required. May be repeated once for credit. PREREQ: MUS-APL 329 or PERM/INST.

MUS-APL 444 BACHELOR OF MUSIC, MUSIC EDUCATION/BACHELOR OF ARTS SENIOR RECITAL (0-V-1). This course is a one-half recital to be presented as the culminating performance project for bachelor of music, music education majors and for bachelor of arts, music majors emphasizing performance. Graded pass/fail. PREREQ: 300-level performance ability and PERM/INST.

MUS-APL 446 SENIOR PERFORMANCE RECITAL (0-V-2). 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.

MUS-APL 447 SENIOR COMPOSITION RECITAL (0-V-2). 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. Graded pass/fail. PREREQ: Major in composition and 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; nonmusic 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 may audition during the first two weeks of the semester to determine the appropriate level. 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, -7-harp); 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.

Major area minimum practice requirements
For 4 hours credit: 18 hours practice per week.
For 2 hours credit: 12 hours practice per week.

Minor area practice requirements. For 2 hours credit: 6 hours practice per week.

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, 451, 452, 454 FRETTED STRING INSTRUMENTS. Private lessons.

MUS-PRV 161, 162, 164, 261, 262, 264, 361, 362, 364, 461, 462, 464 BOWED STRING INSTRUMENTS. Private lessons.

MUS-PRV 171, 172, 174, 271, 272, 274, 371, 372, 374, 471, 472, 474 HARP. Private lessons.

MUS-PRV 382, MUS-PRV 482 COMPOSITION LESSONS. Private lessons.

Course numbers ending in 1: (0-1-1)(SU).
Course numbers ending in 2: (0-.5-2)(F/S).
Course numbers ending in 4: (0-1-4)(F/S).

MUS-ENS—MUSIC, ENSEMBLE

All MUS-ENS Courses may be repeated for credit.

Lower Division and Upper Division

MUS-ENS 101, 301 UNIVERSITY SINGERS (0-2-1)(F/S). 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 (0-2-1)(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 (0-5-1). A course in the study and production of operas. PREREQ: PERM/INST.

MUS-ENS 118, 318 EARLY MUSIC ENSEMBLE (0-3-1). 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, 321-321G 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 (0-2-1)(F/S). Open to all students and community members who are able to play a band instrument.

MUS-ENS 126, 326 JAZZ ENSEMBLE (0-3-1)(F/S). A course designed to promote playing repertoire of large jazz ensembles. Includes performance of Dixieland, be-bop, swing, rock, and contemporary jazz. Class rehearsals include study of rhythm problems, notation, improvisation, ear training, and chord construction in jazz. Public performance each semester. 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 (0-2-1)(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 (0-2-1)(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 141, 341 KEYBOARD PERCUSSION ENSEMBLE (0-2-1)(F/S). In conjunction with the preparation of music for public performance, students will acquire a first-hand knowledge of phrasing, mallet selection and application, general ensemble techniques, musical style and interpretation, and repertoire. Students will also be encouraged to compose original music and/or arrange or adapt existing music for the ensemble.

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 nonmusic 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 (0-2-1)(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 (0-2-1)(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—MUSIC, GENERAL

Lower Division

MUS 100 INTRODUCTION TO MUSIC (3-0-3)(Area I). 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. Attendance at least two approved live concerts/recitals is required.

MUS 101 SURVEY OF WESTERN ART MUSIC (3-0-3)(F)(Area I). 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). 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 119 MATERIALS OF MUSIC I (3-0-3)(F/S). 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.

MUS 120 MATERIALS OF MUSIC II (3-0-3)(F/S). 4-voice textures (linear and vertical); homophony; 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.

MUS 121-122 EAR TRAINING I-II (0-2-1)(F/S). Designed to correlate with Materials I and 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: Previous or concurrent enrollment in MUS 119 and 120.

MUS 147 SURVEY OF OPERA AND MUSIC THEATRE (0-2-1)(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. Required of voice majors.

MUS 148, 348 FRENCH HORN REPERTOIRE (1-0-1)(S). Course covers repertoire important to student of French horn in areas of solo, chamber, and orchestral literature. Focus deals with problems unique to the instrument in terms of tone quality, intonation, style, and rhythm. May be repeated for credit.

MUS 208 MUSIC TECHNOLOGY (1-3-2)(S)(Odd years). 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 213 FUNCTIONAL PIANO (2-0-2)(F/S). Building of basic keyboard skills needed for music education majors in areas of sight reading, transposition, harmonization, improvisation, and repertoire materials; piano music and 2-4 line scores will be used. May be repeated once for credit. PREREQ: MUS 120 and one year of piano study.

MUS 219 MATERIALS OF MUSIC III (3-0-3)(F/S). 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)(F/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 221-222 EAR TRAINING III-IV (0-2-1)(F/S). Continuation of ear training I-II: solfeggio, dictation of more advanced rhythms, 2-, 3-, and 4-parts. Student expected to play at keyboard simpler forms of basic chords in 4-part harmony. PREREQ: MUS 121-122; MUS 120; at least one year of piano study or concurrent enrollment in piano study.

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.

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. PRE/COREQ: MUS-ENS 121 or MUS-ENS 321.

MUS 256 VOCAL TECHNIQUES AND METHODS (1-2-2)(S). Designed for the music education major, 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.

MUS 257 STRING INSTRUMENT TECHNIQUES AND METHODS (1-2-2)(F). 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.

MUS 261 BASIC CONDUCTING (0-2-1)(F/S). Fundamental techniques of conducting: baton fundamentals, group rehearsal techniques, and simple score reading. PREREQ: MUS 120 and MUS 122.

Upper Division

MUS 312 INTRODUCTION TO COMPUTER MUSIC (3-0-3)(F)(Offered odd-numbered 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 (1-1-1)(F)(Alternate, even years). Designed to give music education students experiences in arranging music for a variety of choral ensembles. PREREQ: MUS 220.

MUS 324 ORCHESTRATION/BAND ARRANGING (2-0-2)(F/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 325-326 INSTRUMENTAL TECHNIQUES AND METHODS (1-2-2)(F,S). Primarily for music education majors. Two-semester sequence covers methods and materials of teaching various woodwind, percussion and brass instruments in the public schools, while providing basic performing techniques on two or more instruments from each family. PREREQ for MUS 326: MUS 325.

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)(Even years). 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). 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. Graded pass/fail. May be repeated two times for credit. PREREQ: MUS 331, PERM/INST.

MUS 349 FLUTE REPERTOIRE I (1-0-1)(F). Intended for advanced flute students. Technique, study and performance of a broad range of flute repertoire including solo literature, chamber music, and orchestral excerpts. Develop critical listening skills. Regular performance in class is required. May be repeated for credit. PREREQ: PERM/INST.

MUS 350 FLUTE REPERTOIRE II (1-0-1)(S). A continuation of Flute Repertoire I with additional and more advanced flute literature. May be repeated for credit. PREREQ: PERM/INST.

MUS 351 MUSIC HISTORY AND LITERATURE I (3-0-3)(S). The analysis of the development of Western art music form 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 101 and MUS 120 or PERM/INST.

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 351, MUS 220 or PERM/INST.

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 352 or PERM/INST.

MUS 355-355G ROCK MUSIC: ITS PERFORMANCE AND HISTORY (3-0-3)(S)(Odd years). 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 370 GUITAR FOR CLASSROOM TEACHERS (2-0-2)(F/S). Designed for teachers or prospective teachers who wish to use the guitar in classroom situations. Emphasis is on accompaniment skills, elementary chord theory, melody playing, proper hand position, and note reading. 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 inclass rehearsals with students as conductors. PREREQ: MUS 261; COREQ: MUS 366 or PERM/INST.

MUS 380 CLASSROOM GUITAR (2-1-2)(S)(Even years). Intended for music education majors. Includes music methods, materials, and teaching strategies for teaching classroom guitar. Fundamentals of guitar technique and accompaniment will also be taught.

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 and successful completion of Music Education Interview.

MUS 401 MUSIC THEORY REVIEW (2-0-1)(F/S). 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 (MUS 502) SURVEY OF JAZZ (3-0-3)(F). 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)(Diversity). Musical traditions beyond the scope of Western art music. PREREQ: Grade of B or better in MUS 353, or upper-division status in music; or PERM/INST.

MUS 410 ADVANCED FORM AND ANALYSIS (2-0-2)(S). Analysis of harmonic and formal structures of the larger binary and ternary forms; the sonata, the symphony, the concerto, Baroque forms. PREREQ: MUS 219 or PERM/INST.

MUS 423-423G SIXTEENTH CENTURY COUNTERPOINT (3-0-3)(F)(Odd years). Study of 16th century compositional techniques. Compositions will be written in 2 to 4 voices, 5 species, C clefs and Latin texts. Analysis of/listening to music of the period. Additional compositions and/or research for graduate credit. PREREQ: MUS 220 or equivalent.

MUS 424-424G COUNTERPOINT SINCE 1600 (3-0-3)(S). 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 454-454G SECONDARY GENERAL MUSIC METHODS (2-0-2)(S)(Odd years)(Alternate 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)(Alternate years with MUS 457). 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 with MUS 457). Practical application of pedagogical methods and procedures through supervised studio teaching. Further reading, lecture, listening, and discussion involving pedagogical techniques. PREREQ: MUS 463.

MUS 465-465G 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: 1 year of MUS-PRV voice performance studies.

MUS 466-466G 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 472-472G 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: Admission to Professional Year. 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: Admission to Professional Year. 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: Admission to Professional Year. COREQ: MUS 481 or MUS 482.

MUS 498 MUSIC SEMINAR (2-0-2)(F/S). A seminar project under faculty direction. PREREQ: Senior standing.

Native American Studies Minor—see Department of Anthropology

Department of Nursing

College of Health Sciences

Science/Nursing Building, Room 107 Telephone 208 426-4143
http://nursing.boisestate.edu Fax 208 426-1370
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Chair and Professor: Pam Springer. *Associate Chair and Professor:* Vivian Schrader. *Associate Chair and Assistant Professor:* Pam Strohfus. *Associate Chairs and Associate Professors:* Marty Downey, Abigail Gerding. *Endowed Chair and Professor:* Jeri Bigbee. *Professors:* Brudenell, Clark. *Associate Professors:* Allerton, Carnosso, Davis, Gehrke, Hereford, Macy, Mixon, Nadelson, Otterness, Parslow, Reavy, Sutherland, Weiler. *Assistant Professors:* Ahten, Black, Carlson, Gilbert, Godard, Hardin, Humble, Prengaman, Sullivan, Towle, Veltman, Walker. *Instructors:* Conner, Josephson, Keeslar, Martz, Mulcock, Spence. Curriculum Consultant, Val Greenspan.

Degrees Offered

- B.S. in Nursing
- Master of Nursing
- M.S. in Nursing

Department Statement

The Department of Nursing is one of four departments in the College of Health Sciences. The nursing education program offers a bachelor of science (B.S.) degree for those desiring licensure as a professional registered nurse. The program also offers a Master of Science in Nursing and a Master of Nursing degrees. Contact the Department 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 nursing program is approved by the Idaho State Board of Nursing. The bachelor of science program is accredited by the National League for Nursing Accreditation Commission (NLNAC), 61 Broadway, New York, NY 10006, 212-363-5555 ext 153.

All students accepted into the Department of Nursing 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 Department of Nursing's policies to obtain more information about this policy.

Admission Requirements

Students interested in pursuing a nursing degree must be accepted for admission to the Nursing program. Admission to the nursing program is required before a student may enroll in nursing courses. All admission requirements must be completed before admission will be granted. Admission requirements include:

- The following courses must be completed with a grade of C (not C-) or better: BIOL 227-228, CHEM 105 (or equivalent), COMM 101 (or COMM 112), ENGL 101-102, PSYC 101, and an Area III Math core course.
- A GPA of at least 3.0 based on the following courses: BIOL 227-228, CHEM 105 (or equivalent), and an Area III Math core course.
- After admission and prior to beginning the fourth semester of the nursing program, students must have completed the following courses with a C (not C-) or better: BIOL 205, HLTHST 207, HLTHST 230, SOC 101 (or SOC 102 or SOC 230 or ANTH 102)

Because of the large number of students seeking admission to the Nursing program, not all applicants can be admitted. Priority for admission is given to those with the highest academic GPA in the required courses.

Contact the Department of Nursing for more information regarding: the current admission criteria and application process, application deadlines, and nursing program course sequencing.

Degree Requirements

Nursing
Bachelor of Science

Course Number and Title	Credits
ENGL 101-102 English Composition	6
Area I—see page 45 for list of approved courses	
Area I core course in one field	3
Area I core course in a second field	3
Area I core course in a third field	3
Area I core course in any field	3
Area II	
COMM 101 Fundamentals of Speech Communication **OR** COMM 112 Reasoned Discourse	3
ANTH 102 Cultural Anthropology **OR** SOC 101 Introduction to Sociology **OR** SOC 102 Social Problems **OR** SOC 230 Introduction to Multiethnic Studies	3
PSYC 101 General Psychology	3
Area III core course in mathematics	3
Area III—see page 45 for list of approved courses	
Area III core course in mathematics	3-4
BIOL 227-228 Human Anatomy and Physiology	8
BIOL 205 Introductory Microbiology	4
CHEM 105 Accelerated Essentials of Chemistry	5
HLTHST 207 Nutrition	3
HLTHST 230 Growth and Development	3
HLTHST 300 Pathophysiology	4
NURS 105 Interdisciplinary Patient Care Skills Lab	2
NURS 226 Introduction to Professional Nursing	3
NURS 228, 229 Health Assessment and Lab	3
NURS 230 Dosage Calculations for Nurses	1
NURS 232, 233 Community Based Case Management and Lab	4
NURS 330 Applied Pharmacotherapeutics for Nurses	3
NURS 332, 333 Nursing in Health and Illness I and Lab	6
NURS 334 Behavioral Health Nursing	4
NURS 342, 343 Nursing in Health and Illness II and Lab	6
NURS 344, 345 Child and Family Nursing and Lab	5
NURS 392 Introduction to Nursing Research	3
NURS 404 Professional Practice Seminar	1
NURS 414 Critical Thinking Synthesis	2
NURS 416, 417 Community and Public Health Nursing and Lab	6
NURS 420 Policy, Power, and Voice	3
NURS 422 Nurse as Collaborator, Advocate, & Resource Manager	3
NURS 424, 425 Nursing Leadership and Management and Lab	5
NURS 427 Clinical Preceptorship	3
Statistics course	3-4
Electives to total 128 credits	0-2
Total	128

Advanced Placement

Advanced Placement Options for LPNs and RNs are available. A meeting with an advance placement advisor is strongly recommended.

During or prior to a student's fourth semester of the program, LPNs must obtain and provide proof of IV certification.

RNs seeking advanced placement are required to take NURS 350 Professional Transitions in Nursing for the RN, to meet the requirements for the B.S. degree.

RNs who received an Associate of Science degree from another institution (other than Boise State) are considered core certified. RNs who received an Associate of Science degree from Boise State must meet University Core requirements and should have their transcript evaluated by the Registrar's Office for eligibility for core certification.

Nursing
Advanced Placement Option for LPNs
Bachelor of Science

Course Number and Title	Credits
ENGL 101-102 English Composition	6
Area I—see page 45 for list of approved courses	
Area I core course in one field	3
Area I core course in a second field	3
Area I core course in a third field	3
Area I core course in any field	3
Area II	
ANTH 102 Cultural Anthropology **OR** SOC 101 Introduction to Sociology **OR** SOC 102 Social Problems **OR** SOC 230 Introduction to Multiethnic Studies	3
COMM 101 Fundamentals of Speech Communication **OR** COMM 112 Reasoned Discourse	3
PSYC 101 General Psychology	3
Area II core course in any field	3
Area III—see page 45 for list of approved courses	
Area III core course in mathematics	3-4
BIOL 227-228 Human Anatomy and Physiology	8
BIOL 205 Introductory Microbiology	4
CHEM 105 Accelerated Essentials of Chemistry	5
HLTHST 207 Nutrition	3
HLTHST 230 Growth and Development	3
HLTHST 300 Pathophysiology	4
NURS 226 Introduction to Professional Nursing	3
NURS 228, 229 Health Assessment and Lab	3
NURS 330 Applied Pharmacotherapeutics for Nurses	3
NURS 332, 333 Nursing in Health and Illness I and Lab	6
NURS 334 Behavioral Health Nursing	4
NURS 342, 343 Nursing in Health and Illness II and Lab	6
NURS 344, 345 Child and Family Nursing and Lab	5
NURS 392 Introduction to Nursing Research	3
NURS 404 Professional Practice Seminar	1
NURS 414 Critical Thinking Synthesis	2
NURS 416, 417 Community and Public Health Nursing and Lab	6
NURS 420 Policy, Power, and Voice	3
NURS 422 Nurse as Collaborator, Advocate, & Resource Manager	3
NURS 424, 425 Nursing Leadership and Management and Lab	5
NURS 427 Clinical Preceptorship	3
Credit for Prior Learning	6
Nursing elective courses	3-4
Statistics course	3-4
Total	128

Nursing
Advanced Placement Option for RNs
Bachelor of Science

Course Number and Title	Credits
ENGL 101-102 English Composition	6
Area I—see page 45 for list of approved courses	
Area I core course in one field	3
Area I core course in a second field	3
Area I core course in a third field	3
Area I core course in any field	3
Area II—see page 45 for list of approved courses	
COMM 101 Fundamentals of Speech Communication **OR** COMM 112 Reasoned Discourse	3
Area II core course in a second field	3
Area II core course in a third field	3
Area II core course in any field	3
Area III—see page 45 for list of approved courses	
Area III core course in mathematics	4
Area III core course in a second field	4
Area III core course in any field	4
Area II or III electives These courses do not have to be selected from the approved core list, but are to be chosen from anthropology, biology, chemistry, communication, criminal justice, economics, ED-CIFS, engineering, geology, geography, history, mathematics, physical science, physics, political science, psychology, social work, and sociology.	9
HLTHST 300 Pathophysiology	4
NURS 350 Professional Transitions in Nursing for RN	3
NURS 392 Introduction to Nursing Research	3
NURS 404 Professional Practice Seminar	1
NURS 416, 417 Community and Public Health Nursing and Lab	6
NURS 420 Policy, Power, and Voice	3
NURS 422 Nurse as Collaborator, Advocate, & Resource Manager	3
NURS 424, 425 Nursing Leadership and Management and Lab	5
Credit for Prior Learning	42
Statistics Course	3-4
Electives to total 128 credits	3-5
Total	128

Special Lab Fees

Students who are admitted to the Nursing program pay an additional laboratory fee at the time of enrollment for some courses. See the *Schedule of Classes* for specific courses and amounts. This fee is used for purchasing such things as liability insurance, expendable laboratory equipment and supplies, name tags, handbooks, standardized achievement tests, professional pamphlets, additional copies of high-use audiovisual and CAI programs, and replacement practice models. The fee may vary from course to course, and some courses may not require a fee. Elective courses may include a fee that provides travel and per diem support for faculty teaching the course.

Course Offerings

See page 65 for a definition of the course-numbering system.

NURS—NURSING

Lower Division

NURS 105 INTERDISCIPLINARY PATIENT CARE SKILLS LAB (0-6-2)(F/S). An interdisciplinary team approach is used to teach basic patient care skills and interventions to restore and protect health. (Pass/Fail) PREREQ: Admission to program.

NURS 110 PROFESSIONAL CONCEPTS OF NURSING AND HEALTH CARE (3-0-3)(F,S). Introduction to selected knowledge, skills, attitudes and concepts of nursing, health, and health care delivery systems. PREREQ: Admission to program.

NURS 122 HEALTH ASSESSMENT AND PROMOTION (2-0-2)(F/S). Introduces nursing process, health assessment across the life span, including concepts of health promotion and preventive care.

NURS 123 HEALTH ASSESSMENT AND PROMOTION LAB (0-3-1)(F/S). Application of concepts from NURS 122 in selected clinical settings. (Pass/Fail). COREQ: NURS 122.

NURS 200 PROFESSIONAL CONCEPTS FOR CARE DELIVERY I (1-0-1)(F). Community based nursing practice related to the health of families, environmental safety and risk screening. Introduction to concepts of leadership and management. PREREQ: ENGL 101, COMM 101 or 112, BIOL 228, CHEM 105. COREQ: NURS 202, NURS 205.

NURS 202 HEALTH ACROSS THE LIFE SPAN AND THERAPEUTICS I (5-0-5)(F,S). Health patterns across the life span, focusing on nursing interventions that promote physical and psychosocial health. COREQ: NURS 200.

NURS 205 NURSING THERAPEUTICS ACROSS THE LIFE SPAN LAB (0-9-3)(F). Clinical application of concepts from NURS 200, 202 and 204. (Pass/Fail.) COREQ: NURS 200.

NURS 220 PROFESSIONAL CONCEPTS FOR CARE DELIVERY II (1-0-1)(S). Concepts of professional roles in community based nursing, secondary prevention, reimbursement systems, change theory, conflict negotiation, crisis management, team leadership. PREREQ: NURS 200. COREQ: NURS 222, NURS 224 and NURS 225.

NURS 222 ALTERATIONS IN HEALTH (3-0-3)(S). Pathophysiological processes across the life span with integration of related epidemiological and clinical manifestations. Emphasis on disruption of normal physiology. COREQ: NURS 220.

NURS 224 NURSING THERAPEUTICS II (4-0-4)(S). Concepts of nursing therapies with individuals and families in acute care settings and/or with individuals and families in transition to community settings. COREQ: NURS 220.

NURS 225 NURSING THERAPEUTICS II LAB (0-12-4)(S). Clinical application of knowledge acquired in NURS 220, 222, and 224. (Pass/Fail.) COREQ: NURS 220.

NURS 226 INTRODUCTION TO PROFESSIONAL NURSING (3-0-3)(F/S). Selected knowledge, skills, attitudes, and concepts of nursing, health, and health care delivery systems; introduction to medical terminology. PREREQ: Admission to 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. 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, 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, 229.

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. PREREQ: Admission to the nursing program. COREQ NURS 232, NURS 226.

NURS 250 TRANSITIONS IN NURSING FOR THE LPN (3-0-3)(F/S). Designed to meet the learning needs of licensed practical nurses who want to continue their education and become registered nurses. Focus on concepts of community based nursing, role transition, and change theory. Must meet with an advanced placement advisor. PREREQ: PERM/INST. COREQ: NURS 122, NURS 123.

Upper Division

NURS 300 PROFESSIONAL CONCEPTS OF CARE MANAGEMENT I (1-0-1)(F). Continued development of the professional nurse role. Focuses on principles and concepts in tertiary prevention. PREREQ: BIOL 205, ANTH 102 or SOC 101 or 102 or 230, Area III Math Core, NURS 220. COREQ: NURS 302, NURS 303, NURS 305.

NURS 302 CHRONIC AND COMPLEX ALTERATIONS IN HEALTH (3-0-3)(F). Nursing roles and theoretical application of tertiary prevention, health promotion of individuals with chronic and complex illness. Impact of complex and chronic illness on community systems. COREQ: NURS 300.

NURS 303 CHRONIC AND COMPLEX ALTERATIONS IN HEALTH LAB (0-12-4)(F). Clinical application of theory content from NURS 300 and NURS 302. (Pass/Fail.) COREQ: NURS 300.

NURS 305 MANAGING CLIENT CARE: PRECEPTORSHIP (0-6-2)(F). Clinical preceptorship with emphasis on socialization into the nursing profession, multiple client management and application of clinical judgment skills. (Pass/Fail.) COREQ: NURS 300.

NURS 320 PROFESSIONAL CONCEPTS OF CARE MANAGEMENT II (1-0-1)(F/S). Ethical/legal/political issues related to client case management, application of research findings to practice, and developing vision, mission and value statements. PREREQ: NURS 300.

NURS 322 COMMUNITY BASED CASE MANAGEMENT (3-0-3)(F/S). Role of case manager, developing collaborative partnerships with individuals, families, interdisciplinary care teams. COREQ: NURS 323.

NURS 323 COMMUNITY BASED CASE MANAGEMENT LAB (0-9-3)(F/S). Clinical application of theory content from NURS 320 and NURS 322. (Pass/Fail). COREQ: NURS 322.

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: NURS 232 and HLTHST300. COREQ: NURS 332.

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. PREREQ: HLTHST 300, NURS 232. COREQ: NURS 332.

NURS 334 BEHAVIORAL HEALTH NURSING (4-0-4)(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 340 (HLTHST 340) ADOLESCENT MENTAL HEALTH (2-0-2)(F/S). Theoretical and applied foundations in adolescent growth and development. Emphasis on understanding adolescent health /mental health issues, and effective individual, group, and community responses to issues facing the adolescent population. May be taken for HLTHST or NURS credit, but not both.

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. PREREQ: NURS 330, 332. COREQ: NURS 342.

NURS 344 CHILD AND FAMILY NURSING (3-0-3)(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. PREREQ: NURS 330, NURS 332. COREQ: 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. Must meet with an advanced placement advisor. PREREQ: PERM/INST.

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 372 NCLEX TEST-TAKING SKILLS AND REVIEW (2-0-2)(F,S). Test-taking strategies and guidelines for success on NCLEX licensure exam. COREQ: NURS 302.

NURS 375 EMERGENCY NURSING CARE (2-3-3)(F/S). Develop knowledge and skills in emergency nursing care. (Pass/Fail.) PREREQ: NURS 224 and NURS 225, or PERM/INST.

NURS 376 CARING FOR THE DIVERSE COMMUNITY (3-0-3)(F/S)(Diversity). 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 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 INTRODUCTION TO NURSING RESEARCH (2-3-3)(S/SU). Introduction to the research process. Emphasis on defining researchable problems, analyzing steps in the research process, and providing opportunities for practical experiences. PREREQ: A college statistics course.

NURS 402 NURSING LEADERSHIP AND MANAGEMENT IN HEALTH CARE (3-0-3)(F/S). Utilization of theory and research to develop skills in nursing management and leadership in a variety of health care organizations. PREREQ: NURS 320 and NURS 392.

NURS 404 PROFESSIONAL PRACTICE SEMINAR (1-0-1)(F/S). Seminar focused on analysis and synthesis of clinical management and leadership principles in clinical practice. PREREQ: NURS 320 and NURS 392. COREQ: NURS 405.

NURS 405 PROFESSIONAL PRACTICE CLINICAL (0-9-3)(F/S). Clinical experience tailored to student expertise and professional goals. (Pass/Fail.) PREREQ: NURS 392. COREQ: NURS 404.

NURS 407 NURSING PROJECT ELECTIVE (0-6-2)(F/S). Synthesist 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 412 PUBLIC HEALTH NURSING (3-0-3)(F/S). Principles and concepts of public health nursing applied to communities and populations. PREREQ: NURS 320 and NURS 392. COREQ: NURS 413.

NURS 413 PUBLIC HEALTH NURSING LAB (0-6-2)(F/S). Clinical application of public health nursing concepts from NURS 412. (Pass/Fail.) PREREQ: NURS 392. COREQ: NURS 412.

NURS 414 CRITICAL THINKING SYNTHESIS (2-0-2)(F/S). Critical thinking related to licensure, delegation, and dilemmas in practice. Success on predictor examination required. PREREQ: NURS 342, 344, 392

NURS 416 COMMUNITY AND PUBLIC HEALTH NURSING (3-0-3)(F/S). Public health principles and concepts applied in populations and communities. PREREQ: NURS 392. COREQ: NURS 417.

NURS 417 COMMUNITY AND PUBLIC HEALTH NURSING LAB (0-9-3)(F/S). Application of community and public health nursing concepts and principles in professional practice. PREREQ: NURS 392. COREQ: NURS 416.

NURS 420 POLICY, POWER, AND VOICE (3-0-3)(F/S). Use of personal power to plan career goals. Exploration of nurses' personal and collective power and voice to participate as leaders and advocates in health policy process. PREREQ: NURS 320 and NURS 392.

NURS 422 NURSE AS COLLABORATOR, ADVOCATE, AND RESOURCE MANAGER (3-0-3)(F/S). The role of nurse as collaborator, advocate, and resource manager involving coordination of quality health care services in a cost-effective manner to promote positive outcomes for various populations. PREREQ: NURS 392.

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. PREREQ: NURS 392. COREQ: NURS 424, 425.

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

Paralegal Studies Program

College of Social Sciences and Public Affairs

Public Affairs and Art West Building, Room 102F Telephone 208 426-5244
http://paralegal.boisestate.edu
e-mail: paralegal@boisestate.edu

Administrative Director and Associate Professor: Patt Elison-Bowers.
Interim Academic Co-director and Professor: Mark Buchanan.

Program Statement

The Paralegal Studies Program is an optional minor/certificate program within the framework of a baccalaureate degree preparation, regardless of the major program designation. However, a student may enroll in the Paralegal Studies Program without concurrently seeking a baccalaureate degree. The curriculum includes general background courses (University Core) and nine hours of law-related classes. In addition to these, the student must complete 24 credit hours of law-specialty classes and possess computer literacy. (Note that a student must also meet the requirements of the major, where this pertains.) The program is approved by the American Bar Association.

Program applicants are screened for suitability by the directors of the program. After completing the program, the student will receive a certificate in paralegal studies and this will be entered on the student's transcript.

Law-Specialty Courses The student is required to take at least twenty-four (24) semester credits of course work in special areas of law. This includes six (6) hours of required courses, i.e., PARALGL 301, PARALGL 302, PARALGL 304, PARALGL 305, and in most cases, three hours of PARALGL 493 Internship, and fifteen (15) credit hours of course work selected from the alternative law-specialty courses. These courses provide substantive knowledge of the law as well as emphasizing practical skills, tasks, and responsibilities of the paralegal. All law-specialty courses are taught by practicing lawyers who serve as adjunct faculty members. In certain law-specialty courses, qualified paralegals may assist the lawyers in a team-teaching arrangement; the paralegal will focus on the responsibilities of the paralegal.

For admission to the program, an applicant must be in one of the following categories and complete the admission process;

- students who have completed the university core requirements, and have nine credits of law-related classes
- students who have completed a baccalaureate degree (any discipline). Depending on the respective programs, these students may not need the law-related courses
- students who have completed 30 hours of college credit (primarily core classes) and have three years experience in a law-related position

Graduates are not authorized to provide direct legal services to the public. The Paralegal Studies Program provides training for paralegals who are authorized to perform substantive legal work under the supervision of a lawyer.

Paralegal Studies Program	
Course Number and Title	**Credits**
PARALGL 301 Introduction to Law Practice and the Role of the Paralegal	2
PARALGL 302 Legal Ethics and Law Office Procedures	1
PARALGL 304 Legal Research and Writing	2
PARALGL 305 Westlaw Advanced Research	1

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Paralegal Studies Program (continued)	
Law-specialty courses chosen from: PARALGL 401 Estates, Wills and Trusts PARALGL 403 Corporate Law PARALGL 405 Real Estate and Property Law PARALGL 407 Bankruptcy PARALGL 411 Civil Litigation and Procedures PARALGL 413 Criminal Law Practice PARALGL 421 Family Law Practice PARALGL 431 Natural Resource Law PARALGL 471 Tort Law PARALGL 493 Paralegal Internship PARALGL 494 Workshops in Paralegal Studies PARALGL 497 Special Topics on Emergent Issues in Law Practice and Paralegal Responsibilities	18
Computer literacy (or evidence of computer literacy) ITM 104, ITM 105, ITM 106 Computer Applications	3
Law-related courses chosen from: CJ 375 Law of Criminal Evidence CJ 376 Law of Arrest, Search and Seizure CJ 381 Judicial Administration and Court Management CJ 426 Statistics GENBUS 202 The Legal Environment of Business GENBUS 302 Commercial Law GENBUS 441 Business, Government and Society POLS 351 Constitutional Law POLS 421 International Law POLS 441 Classical Political Thought POLS 467 Administrative Law SOC 370 Sociology of Law	9
Communication Skills (recommended, but not required) *COMM 101 Fundamentals of Speech Communication *COMM 112 Reasoned Discourse ENGL 202 Technical Communication ENGL 312 Technical Communication Applications *PHIL 201 Introduction to Logic	
Management Techniques and Procedures (recommended, but not required) ACCT 205 Introduction to Financial Accounting ACCT 206 Introduction to Managerial Accounting GENBUS 101 Introduction to Business GENBUS 360 Business Ethics and Social Responsibility *MATH 130 Finite Mathematics *MATH 160 Survey of Calculus MGMT 301 Leadership Skills MRKTEC 257 Elements of Management POLS or SOC 487 Organizational Theory & Bureau Structure	
Governmental Institutions, Processes and Historical Background (recommended, but not required) *HIST 101 History of Western Civilization *HIST 102 History of Western Civilization *HIST 111 U. S. History *HIST 112 U. S. History HIST 337 U. S. Constitutional History *POLS 101 American National Government POLS 102 State and Local Government POLS 303 Introduction to Public Administration POLS 312 Legislative Behavior POLS 320 American Policy Process	
Total	36
*Satisfies a university core requirement.	

Course Offerings

See page 65 for a definition of the course-numbering system.

PARALGL—LAW SPECIALTY COURSES

Students must complete nine credits in law-related courses and provide evidence of computer literacy before enrolling in any of the law-specialty courses. In addition, students must complete PARALGL 301, PARALGL 302, PARALGL 304, and PARALGL 305 before enrolling in any of the law-specialty courses in the 400 series. (Exceptions may be made only for good and substantial reasons.) Before enrolling in any law-specialty course, you must obtain the program director's approval.

PARALGL 301 INTRODUCTION TO LAW PRACTICE AND ROLE OF THE PARALEGAL (2-0-2)(F/S). Familiarization of students with specific operations of law firms and legal departments and the role of the paralegal. Essential skills of assertiveness, interviewing, investigation and formal/informal advocacy are introduced. Training in presenting a thorough, well-reasoned written legal analysis. PREREQ: Nine credits in law-related courses and evidence of computer literacy or PERM/PROG DIR.

PARALGL 302 LEGAL ETHICS AND LAW OFFICE PROCEDURES (1-0-1)(F/S). Introduction to the Code of Professional Responsibility and the Code of Judicial Ethics. Explores the boundaries of authorized practice, delegation of authority, and confidentiality. Review of office procedures, including billing, time keeping, docketing, calendaring and filing systems. PREREQ: PARALGL 301 or PERM/PROG DIR.

PARALGL 304 LEGAL RESEARCH AND WRITING (2-0-2)(F/S). Use of law references to develop research skills for the paralegal in the formulation of briefs, memoranda, and other documents relative to legal practice. Emphasis is given to accurate, analytical writing of legal terms and forms. PREREQ: PARALGL 302 or PERM/PROG DIR.

PARALGL 305 WESTLAW ADVANCE RESEARCH (1-0-1)(F/S). Development of computerized skills in the use of "Westlaw." PREREQ: PARALGL 304 or PERM/PROG DIR.

PARALGL 401 ESTATES, WILLS, AND TRUSTS (3-0-3)(F/S). Principles, provisions, and documents relative to wills and trusts. Includes jurisdictions of probate courts, estate and inheritance taxation and estate planning. The role and responsibilities of the paralegal will be emphasized. PREREQ: PARALGL 305 or PERM/PROG DIR.

PARALGL 403 CORPORATE LAW (3-0-3)(F/S). The law regarding contracts, agency, partnerships, corporations, negotiable instruments and sale of personal property. The role and responsibilities of the paralegal will be emphasized. PREREQ: PARALGL 305 or PERM/PROG DIR.

PARALGL 405 REAL ESTATE AND PROPERTY LAW (3-0-3)(F/S). Personal and real-property documents and law relating to mineral and energy resources, mortgages, zoning and covenants, titles, legal descriptions, appraisals, common problems of property ownership, government regulation of subdivisions, condemnation, boundary disputes, adverse possession, leases, joint ventures, liens and encumbrances, foreclosure, inter alia. The role and responsibilities of the paralegal will be emphasized. PREREQ: PARALGL 305 or PERM/PROG DIR.

PARALGL 407 BANKRUPTCY (3-0-3)(F/S). Examines basic concepts in the debtor-creditor relationship, including the rights and interests of both parties in a transaction. Principles of bankruptcy, creditor rights, and consumer protection are stressed. The role and responsibilities of the paralegal will be emphasized. PREREQ: PARALGL 305 or PERM/PROG DIR.

PARALGL 411 CIVIL LITIGATION AND PROCEDURES (3-0-3)(F/S). In-depth coverage of civil litigation in state and federal courts from client interview through trial and appeal. Idaho court practice emphasized but with sufficient understanding to be adapted to other states. Federal court practice based on federal and local rules. The role and responsibilities of the paralegal will be emphasized. PREREQ: PARALGL 305 or PERM/PROG DIR.

PARALGL 413 CRIMINAL LAW PRACTICE (3-0-3)(F/S). Substantive criminal law, definition of a crime, defenses to criminal accusation, joinder of parties and criminal allegations, instituting criminal action, formal pleading, the court process, negotiated pleas, probation and sentencing practice and procedure, constitutional safeguards and requirements. The role and responsibilities of the paralegal will be emphasized. PREREQ: PARALGL 305 or PERM/PROG DIR.

PARALGL 421 FAMILY LAW PRACTICE (3-0-3)(F/S). Legal provisions and documents relative to marriage, separation, divorce, communal property, child custody, child support, adoption, and other concerns. The role and responsibilities of the paralegal will be emphasized. PREREQ: PARALGL 305 or PERM/PROG DIR.

PARALGL 431 NATURAL RESOURCE LAW (3-0-3)(F/S). Federal public lands and resources; historical development of federal policy; federal/state relations; relations among the legislative, executive, and judicial branches of the federal government; individual treatment of water, mineral, range, timber, wildlife, recreation, and preservation of natural resources. The role and responsibilities of the paralegal will be emphasized. PREREQ: PARALGL 305 or PERM/PROG DIR.

PARALGL 471 TORT LAW (3-0-3)(F/S). Principles of the law of torts, including consideration of concepts of liability based upon fault and without fault, negligence and compensation for industrial injuries, defenses thereto and damages. Functions of Workers' Compensation. The role and responsibilities of the paralegal will be emphasized. PREREQ: PARALGL 305 or PERM/PROG DIR.

Department of Philosophy

College of Arts and Sciences

1021 Lincoln Hall, Room 207 Telephone 208 426-3304
e-mail: philosophy@boisestate.edu Fax 208 426-4332

Chair and Associate Professor: Tony Roark. *Associate Professor:* Cortens. *Assistant Professor:* Crowley. *Special Lecturer:* Pearson, Stockton.

Degree Offered

- B.A. and 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 31 hours of philosophy credit, 25 of which are specifically required courses and 6 of which are electives from other courses in philosophy. 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 Bachelor of Arts	
Course Number and Title	**Credits**
ENGL 101-102 English Composition	6
Area I—see page 45 for list of approved courses	
PHIL 101 Introduction to Philosophy	3
PHIL 201 Introduction to Logic	3
Area I core course in literature	3
Area I core course in a third field	3
Area II—see page 45 for list of approved courses	
Area II core course in history	3
Area II core course in a second field	3
Area II core course in a third field	3
Area II core course in any field	3
Area III — see page 45 for list of approved courses	
Area III core course in mathematics	3-5
Area III core course in a second field	4
Area III core course in any field	4

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Philosophy (continued)	
PHIL 211 Ethics	3
PHIL 305 Ancient Greek Philosophy	3
PHIL 309 Modern Philosophy	3
PHIL 413 Analytic Philosophy	3
PHIL 433 Metaphysics	3
PHIL 435 Epistemology **OR** PHIL 406 Philosophy of Science	3
PHIL 495 Senior Comprehensive Examination	1
Upper-division Philosophy electives	6
Upper-division electives to total 40 credits	18
Electives to total 128 credits	42-44
Total	128

Philosophy Minor	
Course Number and Title	**Credits**
PHIL 101 Introduction to Philosophy	3
PHIL 201 Introduction to Logic	3
PHIL 211 Ethics	3
Philosophy courses other than PHIL 489	9
Total	18

Course Offerings

See page 65 for a definition of the course-numbering system.

PHIL—PHILOSOPHY

Lower Division

PHIL 101 INTRODUCTION TO PHILOSOPHY (3-0-3)(F,S)(Area I). A general introduction to some basic philosophical problems and concepts, with attention to selected major philosophers and with an emphasis on philosophical method.

PHIL 201 INTRODUCTION TO LOGIC (3-0-3)(F,S)(Area I). A study of the concepts and methods used in the analysis and evaluation of arguments with emphasis on the structure of arguments.

PHIL 211 ETHICS (3-0-3)(F/S). An investigation of the validity of moral claims, the use of moral language, and the evaluation of classical efforts, for example, utilitarianism, to provide a test of moral rightness.

Upper Division

PHIL 304 SYMBOLIC LOGIC (3-0-3)(S). A study of techniques of validation in propositional and predicate logic, with emphasis on the construction of formal proofs. Some attention will be given to metalogical notions such as consistency and completeness. PREREQ: PHIL 201 or MATH 187.

PHIL 305 ANCIENT GREEK PHILOSOPHY (3-0-3)(F). An introduction to the origins of Western philosophy in the ancient world, with emphasis on Plato and Aristotle. PREREQ: PHIL 101.

PHIL 307 MEDIEVAL PHILOSOPHY (3-0-3)(Offered as justified). A survey of major developments in Western philosophy from St. Augustine through William of Ockham, with emphasis on selected figures. PREREQ: PHIL 101.

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 101.

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.

PHIL 321 EASTERN PHILOSOPHY (3-0-3)(Offered as justified)(Diversity). Philosophical teachings of great Eastern thinkers through a study of classical texts selected from traditions of Hinduism, Confucianism, Taoism, and Buddhism. PREREQ: PHIL 101.

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.

PHIL 331 PHILOSOPHY OF RELIGION (3-0-3)(Offered as justified). Basic philosophical issues connected with religious belief such as the nature and existence of God, the problem of evil, miracles, and the significance of religious experience. PREREQ: PHIL 101.

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.

PHIL 406 PHILOSOPHY OF SCIENCE (3-0-3)(Offered as justified). A study of philosophical issues raised by reflection on the nature of science and the results of scientific inquiry. PREREQ: PHIL 101 and either PHIL 201 or MATH 187.

PHIL 410 PHILOSOPHY OF MIND (3-0-3)(Offered as justified). An examination of various solutions to the mind/body problem, the problem of other minds, as well as related mental concepts. Problems of action theory may be explored. PREREQ: PHIL 101.

PHIL 413 ANALYTIC PHILOSOPHY (3-0-3)(S). A critical examination of the development of the analytic method in Anglo-American philosophy with attention to such selected figures as Frege, Russell, Moore, Wittgenstein, and Austin. PREREQ: PHIL 101 and either PHIL 201 or MATH 187.

PHIL 433 METAPHYSICS (3-0-3)(F). An investigation of basic problems about the nature of reality. Possible topics include personal identity, the nature of mind, freedom and determinism, and the problems of universals. PREREQ: PHIL 101.

PHIL 435 EPISTEMOLOGY (3-0-3)(Offered as justified). An investigation of basic problems concerning knowledge and the justification of belief. Possible topics include attempts to define knowledge and related concepts, the problem of skepticism, and the problem of other minds. PREREQ: PHIL 101.

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, 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, 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, 141 or PHIL 101.

PHIL 489 SENIOR TUTORIAL (3-0-3)(F). Directed research culminating in the writing of a senior essay to be approved by the members of the philosophy faculty. PREREQ: Senior standing in philosophy major and approval by the department chair of a Tutorial Project Proposal by April 1 of the semester preceding the semester when the Tutorial is taken.

PHIL 495 SENIOR COMPREHENSIVE EXAMINATION (1-0-1)(F/S). Capstone experience culminating in a four-part examination over the fundamental areas developed within the major: history of philosophy; metaphysics and epistemology/philosophy of science; moral philosophy; logic. Exam questions are drawn from a pool of candidate questions made available to the examinee beforehand. 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 420 Telephone 208 426-3775
http://www.boisestate.edu/physics Fax 208 426-4330
e-mail: bmoss@boisestate.edu

Chair and Professor: R. J. Reimann. *Associate Chair and Professor:* C. D. Hanna. *Professor:* Dykstra. *Associate Professors:* Macomb, Punnoose. *Assistant Professors:* Kim, Tenne, Zhang.

Degrees Offered

- B.S. and Minor in Physics
- B.S. in Physics, Secondary Education

Department Statement

The scope of the program is applied physics. However, flexibility is maintained in order to direct students toward their desired objectives. If the student is interested in going on into graduate physics, more math would be recommended. Depending on the particular field of interest in physics, the student could select electives in biology, chemistry, engineering, math, or geophysics.

Degree Requirements

Physics
Bachelor of Science

Course Number and Title	Credits
ENGL 101-102 English Composition	6
Area I—see page 45 for list of approved courses	
Area I core course in one field	3
Area I core course in a second field	3
Area I core course in a third field	3
Area I core course in any field	3
Area II—see page 45 for list of approved courses	
Area II core course in one field	3
Area II core course in a second field	3
Area II core course in a third field	3
Area II core course in any field	3
Area III	
Area III requirements are automatically met by specific courses included in the major requirements below.	
CHEM 111, 111L-112, 112L General Chemistry I and II with Labs	9
MATH 170 Calculus I	4
MATH 175 Calculus II	4
MATH 275 Multivariable and Vector Calculus	4
MATH 333 Differential Equations with Matrix Theory	4
One or more of the following: MATH 301 Linear Algebra MATH 360 Engineering Statistics MATH 361 Probability and Statistics I MATH 436 Partial Differential Equations MATH 462 Probability and Statistics II MATH 465 Numerical Analysis	4

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Physics (continued)	
PHYS 211, 211L Physics I with Calculus and Lab	5
PHYS 212, 212L Physics II with Calculus and Lab	5
PHYS 301 Analog Electronics	4
PHYS 304 Transducers and Instrumentation	3
PHYS 309, 310 Introduction to Modern Physics with Applications and Lab	4
PHYS 311 Modern Physics	3
PHYS 325 Scientific Computing	3
PHYS 330 Optics	3
PHYS 334 Optics Lab	1
PHYS 341 Mechanics	4
PHYS 381, 382 Electromagnetic Theory	6
PHYS 412 Introduction to Quantum Mechanics	3
PHYS 432 Thermal Physics	3
PHYS 481 Advanced Physics Lab	3
PHYS 499 Seminar	1
Electives to total 128 credits	19
Total	128

The Physics, 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 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 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.

Physics, Secondary Education Bachelor of Science

Course Number and Title	Credits
ENGL 101-102 English Composition	6
Area I—see page 45 for list of approved courses	
Area I core course in one field	3
Area I core course in a second field	3
Area I core course in a third field	3
Area I core course in any field	3
Area II—see page 45 for list of approved courses	
ED-CIFS 201 Foundations of Education	3
Area II core course in a second field	3
Area II core course in a third field	3
Area II core course in any field	3
Area III	
Area III requirements are automatically met by specific courses included in the major requirements below.	
BIOL 191-192 General Biology I & II	8
CHEM 111, 111L-112, 112L General Chemistry I and II with Labs	9

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Physics, Secondary Education (continued)	
*ED-CIFS 301 Teaching Experience I	1
*ED-CIFS 302 Learning and Instruction	4
*ED-CIFS 401 Professional Year—Teaching Experience II	2
*ED-CIFS 404 Teaching Secondary Science	3
*ED-LTCY 444 Content Literacy for Secondary Students	3
*ED-SPED 350 Teaching Students with Exceptional Needs at the Secondary Level	3
*Teaching Experience III/IV	16
NOTE: *You must apply for admission to secondary teacher education in order to enroll in these upper-division education courses. Completion of all requirements for graduation with a secondary education option may require more than 128 credit hours. See "Department of Curriculum, Instruction, and Foundational Studies" for more information.	
EDTECH 202 Educational Technology	3
MATH 170 Calculus I	4
MATH 175 Calculus II	4
MATH 275 Multivariable and Vector Calculus	4
MATH 333 Differential Equations with Matrix Theory	4
PHYS 105 Stars and Cosmology	4
PHYS 211, 211L Physics I with Calculus and Lab	5
PHYS 212, 212L Physics II with Calculus and Lab	5
PHYS 309 Introduction to Modern Physics with Applications	3
PHYS 310 Introduction to Modern Physics Lab	1
PHYS 311, Modern Physics	3
PHYS 330 Optics	3
PHYS 334 Optics Lab	1
PHYS 412 Introduction to Quantum Mechanics	3
PHYS 481 Advanced Physics Lab	3
Computer programming course, such as COMPSCI 125	2-5
Possible earth science elective	4
Total	135-138

Physics Minor

Course Number and Title	Credits
*PHYS 211, 211L Physics I with Calculus and Lab	5
PHYS 212, 212L Physics II with Calculus and Lab	5
*PHYS 309, 310 Intro to Modern Physics with Applications and Lab	4
*Upper-division physics courses (May take only 3 credits of Special Topics)	6-7
*Math or other prerequisite	
Total	20-21

Physical Science Minor Certification Endorsement

Course Number and Title	Credits
CHEM 111, 111L-112, 112L General Chemistry I and II with Labs	9
PHYS 111-112 General Physics **OR** PHYS 211-212 Physics I and II with Calculus and Lab	8
A minimum of two courses beyond the introductory level in Chemistry or Physics, not including those in their Major Certification Endorsement.	8
Total	25
Students pursuing this minor certification endorsement are required to hold a major certification endorsement in: Biology, Chemistry, Earth Science Education or Physics.	

Course Offerings

See page 65 for a definition of the course-numbering system.

PHYS—PHYSICS

PHYSICS LABORATORY FEES: A $20 laboratory fee is charged to all students enrolling in a physics course with an associated laboratory or a physics laboratory.

Lower Division

PHYS 100 FOUNDATIONS OF PHYSICS (3-2-4)(F/S)(Area III). An inquiry-based approach towards constructing understanding of physical phenomena. Several selected topics, such as motion, force, light, electricity or thermal phenomena, are explored in-depth to deepen conceptual understanding of the phenomena and how we explain our physical environment. A one-semester core course for non-science majors.

PHYS 101 INTRODUCTION TO PHYSICS (3-2-4)(F/S)(Area III). 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)(Area III). 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)(Area III). 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 RADIOLOGICAL PHYSICS (2-2-3)(F). Fundamental concepts of radiation physics involving structure of the atom, radioactivity, electricity, magnetism, and electromagnetic radiation. Includes the physical principles of magnetic resonance and diagnostic ultrasound. COREQ: RADSCI 226 or PERM/INST.

PHYS 109 INTRODUCTION TO COMPUTERS (3-2-4). The potential and limitations of computers and their impact on society. The course includes an introduction to computer hardware and programming. Designed for nonscience majors.

PHYS 111–112 GENERAL PHYSICS (3-3-4)(F/S)(Area III). 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. PREREQ for PHYS 111: MATH 144 or MATH 147 or satisfactory placement score into MATH 170. PREREQ for PHYS 112: PHYS 111.

PHYS 125 INTRODUCTORY PHYSICS COLLOQUIUM (1-0-1). Informal seminars introducing current areas of interest in physics, introduction to the physics faculty, requirements for graduation, jobs and graduate school. Intended for new physics majors, but open to all interested students. (Pass/Fail.)

PHYS 211 PHYSICS I WITH CALCULUS (4-1-4)(F/S)(Area III). Kinematics, dynamics of particles, statics, momentum, rotational motion, gravitation, introductory wave motion, heat and thermodynamics. PREREQ: MATH 170, COREQ: MATH 175, PHYS 211L.

PHYS 211L PHYSICS I WITH CALCULUS LAB (0-3-1)(F/S)(Area III). 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)(Area III). Coulombs law, fields, potential, magnetism, induced emf, simple circuits, geometrical optics, interference, diffraction, and polarization. PREREQ: PHYS 211. COREQ: PHYS 212L

PHYS 212L PHYSICS II WITH CALCULUS LAB (0-3-1)(F/S)(Area III). Lab to be taken concurrently with PHYS 212. Basic experiments in electricity, magnetism, and optics. COREQ: PHYS 212.

PHYS 295/395 RESEARCH IN PHYSICS (1-4 credits)(F/S). Individual research project carried out by the student in collaboration with a supervising member of the physics faculty. May be repeated for up to 5 credits maximum.

Upper Division

PHYS 301 ANALOG ELECTRONICS (2-6-4)(F)(Odd years). An introduction to basic electronic test instrumentation and to some of the more common discrete semiconductor devices and integrated circuits. Included are diodes, silicon controlled rectifiers, transistors, operational and instrumentation amplifiers, voltage regulators, timers, and analog-to-digital converters. The devices will be utilized in simple electronic circuits for rectification, amplification, waveform creation, and other applications. PREREQ: PHYS 212L.

PHYS 304 TRANSDUCERS AND INSTRUMENTATION (1-6-3)(S)(Even years). An introduction to some common devices used to convert energy forms into electrical signals and their appropriate signal conditioning. Included are photomultiplier tubes, photoconductive cells, photodiodes, phototransistors, linear variable differential transformers, thermocouples, thermistors, Hall Effect devices, strain gauges, and piezoresistive elements. The IEEE-488 BUS Controller will be introduced and used throughout the course for data acquisition from the transducers. PREREQ: PHYS 301.

PHYS 307 INTRODUCTION TO BIOPHYSICS (3-3-4)(S). 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, and PHYS 112 or 212 with labs; or PERM/INST.

PHYS 309 INTRODUCTORY MODERN PHYSICS WITH APPLICATIONS (3-0-3)(S). Key concepts and applications of quantum physics, with examples from chemistry, materials science, engineering, applied physics and nanotechnology, plus a short survey of special relativity. PREREQ: PHYS 212, MATH 275. COREQ: PHYS 310.

PHYS 310 INTRODUCTORY MODERN PHYSICS LAB (0-3-1)(S). Lab to be taken concurrently with PHYS 309. Hands-on experiments and computer simulations applying the principles of modern physics. PREREQ: PHYS 212L, MATH 275. COREQ: PHYS 309.

PHYS 311 MODERN PHYSICS (3-0-3)(F)(Even years). Further topics in modern physics, such as relativity, Schroedinger's equation, nuclear physics and elementary particles. PREREQ: MATH 333 and PHYS 309.

PHYS 325 SCIENTIFIC COMPUTING (3-3-4)(F)(Odd years). 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)(F)(Even years). Geometrical and physical optics, including lenses, fiber optics, Fourier optics, polarization, interference, diffraction, lasers, and holography. PREREQ: MATH 333, PHYS 212. COREQ: PHYS 334.

PHYS 334 OPTICS LABORATORY (0-3-1)(F)(Even years). 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)(Odd years). An upper-division course which 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 (ECE 390)–PHYS 382 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. May be taken for either PHYS or ECE credit, but not both. PREREQ: MATH 275, MATH 333, PHYS 212.

PHYS 405 ASTROPHYSICS (3-0-3)(S)(Offered on demand, even years). 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 104 or 105, PHYS 309; or PERM/INST.

PHYS 412 INTRODUCTORY QUANTUM MECHANICS (3-0-3)(S)(Offered on-demand, odd years). Fundamentals including Schroedinger equation, energy levels, angular momentum, electron spin, perturbations, and scattering. Applications, such as tunneling, orbitals, magnetic resonance, and nanoscale effects. PREREQ: PHYS 309.

PHYS 415 SOLID STATE PHYSICS (3-0-3)(Offered on demand). 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)(S). 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 (3-0-3)(F)(Odd years). Discussion of temperature, work, specific heat, and entropy. The laws of thermodynamics are discussed and applied to physical problems. Ideal gases, statistics, Gibbs free energy, and cryogenics. PREREQ: MATH 333, PHYS 212.

PHYS 481 ADVANCED PHYSICS LAB (1-6-3)(F)(Even years). An advanced laboratory course designed to acquaint students with the concepts of modern physics, laboratory techniques, and measurements. PREREQ: PHYS 310.

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 (1-4 credits)(F/S). Individual research project carried out by the student in collaboration with a supervising member of the physics faculty. May be repeated for up to 5 credits maximum.

PHYS 499 PHYSICS SEMINAR (1-0-1)(S). Individual reports on selected topics. PREREQ: Senior status.

Department of Political Science

College of Social Sciences and Public Affairs

Public Affairs and Art West Building, Room 127 Telephone 208 426-1458
http://polisci.boisestate.edu/ Fax 208 426-4370
e-mail: rburkha@boisestate.edu

Chair and Associate Professor: Ross Burkhart. *Professors:* Alm, Freemuth, Kinney, Moncrief, Raymond, Witt. *Associate Professors:* Burkhart, Fredericksen, Sallie, Yenor. *Assistant Professors:* Hausegger, Mason, Wampler.

Degrees Offered

- B.A. and B.S. in Political Science (with emphasis areas in American government and public policy, international relations, and public law—political philosophy)
- B.A. and B.S. in Political Science, Social Science, Secondary Education
- Political Science Minor
- Master of Public Administration (See the *BSU Graduate Catalog*.)

Department Statement

The department offers courses leading to a B.A. or 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://polisci.boisestate.edu, 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 six 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.A. or B.S. degree and have a pass/fail grade attached. Attendance at such professional development courses is mandatory.

Degree Requirements

Political Science
Bachelor of Arts or Bachelor of Science

Course Number and Title	Credits
ENGL 101, 102 English Composition	6
Area I—see page 45 for list of approved courses	
Area I core course in one field	3
Area I core course in a second field	3
Area I core course in a third field	3
Area I core course in any field (B.A. must complete 3 credits of Area I core Literature)	3
Area II—see page 45 for list of approved courses	
POLS 101 American National Government	3
POLS 141 Contemporary Political Ideologies	3
Area II core course in a second field	3
Area II core course in a third field (B.A. must complete 3 credits of Area II core history)	3
Area III—see page 45 for list of approved courses	
Area III core course in mathematics	3-5
Area III core course in a second field	4
Area III core course in any field	4
POLS 102 State and Local Government	3
POLS 231 International Relations	3
POLS 298 Introduction to Political Inquiry	3
POLS 398 Advanced Political Science Methods	3
Upper-division political science elective courses. A student may use no more than six credits of POLS 493 and three credits of POLS 494.	12
Area of Emphasis Requirements. A minimum of 15 credits must be completed in the student's chosen area of emphasis (see specific courses below).	15
American Government and Public Policy Emphasis	
POLS 301 Political Parties, Public Opinion, and Interest Groups	
POLS 302 Campaigns and Elections	
POLS 303 Introduction to Public Administration	
POLS 308 Urban Politics	
POLS 309 American Chief Executive	
POLS 310 Public Finance	
POLS 312 Legislative Behavior	
POLS 320 American Policy Process	
POLS 331 American Political Theory	
POLS 332 The Ideas of America	
POLS 340 Environmental Politics	
POLS 351 Constitutional Law	
POLS 352 Civil Liberties	
POLS 353 Women and the Law	
POLS 355 Law, Politics, and Society	
POLS 381 American Political Economy	
POLS 469 Intergovernmental Relations	
POLS 471 Ethics in Public Policy	
POLS 487 Organizational Theory and Bureaucratic Structure	
International Relations Emphasis	
POLS 311 Comparative Foreign Policy	
POLS 321 Introduction to Comparative Politics	
POLS 324 Politics in Russia and Eastern Europe	
POLS 325 Latin American Politics	
POLS 327 Canadian Politics	
POLS 328 Politics in Japan	
POLS 329 Politics of Industrialized Nations	
POLS 333 Comparative Governments & Politics of Developing Nations	
POLS 335 United States Foreign Policy	
POLS 421 International Law and Organization	
POLS 429 International Political Economy	

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Political Science (continued)	
Public Law and Political Philosophy Emphasis	
POLS 331 American Political Theory POLS 332 The Ideas of America POLS 351 Constitutional Law POLS 352 Civil Liberties POLS 353 Women and the Law POLS 355 Law, Politics, and Society POLS 441 Classical Political Thought POLS 442 Modern Political Thought POLS 443 Contemporary Political Thought POLS 467 Administrative Law	
Upper-division electives to total 40 credits	10
Electives to total 128 credits	37-39
Total	128

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. must 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 reflective practitioner. Reflective practitioners 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 Arts or Bachelor of Science

Course Number and Title	Credits
ENGL 101-102 English Composition	6
Area I—see page 45 for list of approved courses	
Area I core course in one field Area I core course in a second field Area I core course in a third field Area I core course in any field (B.A. must complete 3 credits of Area I core Literature)	3 3 3 3
Area II—see page 45 for list of approved courses	

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Political Science, Social Science, Secondary Education Emphasis (continued)	
ED-CIFS 201 Foundations of Education POLS 101 American National Government POLS 141 Contemporary Political Ideologies Area II core course in history	3 3 3 3
Area III—see page 45 for list of approved courses	
Area III core course in mathematics Area III core course in a second field Area III core course in any field	4 4 4
*ED-CIFS 301 Teaching Experience I *ED-CIFS 302 Learning and Instruction *ED-CIFS 401 Professional Year—Teaching Experience II *ED-CIFS 405 Teaching Secondary Social Studies *ED-LTCY 444 Content Literacy for Secondary Students *ED-SPED 350 Teaching Students with Exceptional Needs at the Secondary Level *Teaching Experience III/IV NOTE: *You must apply for admission to secondary teacher education in order to enroll in these upper-division education courses. Completion of all requirements for graduation with a secondary education option may require more than 128 credit hours. See "Department of Curriculum, Instruction, and Foundational Studies" for more information.	1 4 2 3 3 3 16
EDTECH 202 Educational Technology	3
POLS 102 State and Local Government POLS 231 International Relations	3 3
Upper-division comparative government elective (POLS 321, 324, 325, 327, 328, 329, or 333)	3
Upper-division political science electives	15
Social science field other than political science	21
Electives to total 128 credits	6
Total	128

Political Science Minor Certification Endorsement

Course Number and Title	Credits
HIST 111-112 U. S. History **OR** HIST 211-212 Problems in U. S. History	6
History course	3
POLS 101 American National Government POLS 102 State and Local Government POLS 141 Contemporary Political Ideologies POLS 231 International Relations	3 3 3 3
Upper-division comparative government elective (POLS 321, 324, 325, 327, 328, 329, or 333)	3
Upper-division political science elective	6
Total	30

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 9 lower-division credits and 12 upper-division credits from the following Course Offerings.

Political Science Minor	
Course Number and Title	**Credits**
Courses from the following: POLS 101 American National Government POLS 102 State and Local Government POLS 141 Contemporary Political Ideologies POLS 231 International Relations POLS 298 Introduction to Political Inquiry	9
Upper-division political science courses except POLS 439, POLS 494, POLS 496, POLS 498, or POLS 499. Only 3 credits of POLS 493 and POLS 497 are allowed	12
Total	21

Course Offerings

See page 65 for a definition of the course-numbering system.

POLS—POLITICAL SCIENCE

Lower Division

POLS 101 AMERICAN NATIONAL GOVERNMENT (3-0-3)(F/S)(Area II). Institutions and processes of the American political system, emphasizing social, ideological, and constitutional background.

POLS 102 STATE AND LOCAL GOVERNMENT (3-0-3)(F/S). Institutions and processes of state and local government, with emphasis on the changing nature of federalism, the role of political participation, and the variation among the state polities and subnational political economies.

POLS 141 CONTEMPORARY POLITICAL IDEOLOGIES (3-0-3)(F/S)(Area II)(Diversity). Analysis of the main ideas shaping the politics of the modern world (e.g., liberty, equality, democracy, justice, culture) through the perspectives of different authors and schools of thought.

POLS 231 INTERNATIONAL RELATIONS (3-0-3)(F/S)(Area II)(Diversity). 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.

POLS 298 INTRODUCTION TO POLITICAL INQUIRY (3-0-3)(F,S). Techniques of political science inquiry, behavioral and attitudinal, using data analysis and introductory statistics.

Upper Division

POLS 301 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 101 or POLS 102.

POLS 302 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 101 or POLS 102.

POLS 303 INTRODUCTION TO PUBLIC ADMINISTRATION (3-0-3)(F/S). Theory, administrative organization, functions, and problems of governmental units. PREREQ: POLS 101 or POLS 102.

POLS 308 URBAN POLITICS (3-0-3)(S)(Alternate years). 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 102.

POLS 309 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 101.

POLS 310 (ECON 310) PUBLIC FINANCE (3-0-3)(S). A study of the role and impact of government on the functioning of the free enterprise economic system. The theory and rationale of government spending, taxing, and indebtedness will be examined, as well as the effects of government activity on allocation of resources and distribution of income. Attention will be paid to state and local problems. May be taken for either ECON or POLS credit, but not both. PREREQ: ECON 201 and ECON 202 or PERM/INST.

POLS 311 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 101 or POLS 231.

POLS 312 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 101 or POLS 102.

POLS 320 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 101 or POLS 102.

POLS 321 INTRODUCTION TO COMPARATIVE POLITICS (3-0-3)(F/S). An introduction to the cross-national analysis of the structure and functioning of various types of political systems, with special emphasis on the problems of political change. PREREQ: POLS 101 or POLS 231.

POLS 324 POLITICS IN RUSSIA AND EASTERN EUROPE (3-0-3)(F/S)(Alternate years). 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 101 or POLS 231.

POLS 325 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 101 or POLS 231.

POLS 327 CANADIAN POLITICS (3-0-3)(SU)(Alternate even years). An analysis of the Canadian political system, with emphasis on political culture, governmental institutions and processes, and selected public policy issues. PREREQ: POLS 101 or POLS 231.

POLS 328 POLITICS IN JAPAN (3-0-3)(F/S)(Alternate years). An analysis of the political system of Japan, with special emphasis on the development of Japanese political culture and its impact on the policy process. PREREQ: POLS 101 or POLS 231.

POLS 329 POLITICS OF INDUSTRIALIZED NATIONS (3-0-3)(F/S)(Alternate years). 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 101 or POLS 231.

POLS 331 AMERICAN POLITICAL THEORY (3-0-3)(F/S). Genesis and development of political thought in the United States from the colonial period to the present. PREREQ: POLS 101 or POLS 102.

POLS 332 THE IDEAS OF AMERICA (3-0-3)(S)(Odd years). Ideas central to the American identity in comparative historical perspective. Examples include freedom, tolerance, religious liberty, community, and individual rights. PREREQ: POLS 101.

POLS 333 COMPARATIVE GOVERNMENTS AND POLITICS OF DEVELOPING NATIONS (3-0-3)(F/S)(Alternate years). Political systems of selected nations in developing areas of the world, including nation-states in Africa, Asia and Latin America. Patterns and problems of political development and modernization in the nations will be analyzed. PREREQ: POLS 101 or POLS 231.

POLS 335 UNITED STATES FOREIGN POLICY (3-0-3)(F/S). 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 101 and POLS 231.

POLS 340 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 101.

POLS 351 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 101.

POLS 352 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 101.

POLS 353 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 101.

POLS 355 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 101.

POLS 381 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 101 or POLS 141.

POLS 398 ADVANCED POLITICAL SCIENCE METHODS (3-0-3)(F,S). 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 421 INTERNATIONAL LAW AND ORGANIZATION (3-0-3)(F/S). 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 231.

POLS 429 INTERNATIONAL POLITICAL ECONOMY (3-0-3)(F/S)(Alternate years). 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 231.

POLS 441 (PHIL 441) CLASSICAL POLITICAL THOUGHT (3-0-3)(F)(Odd years). Development of political philosophy from Socrates to Machiavelli. May be taken for either POLS or PHIL credit, but not both. PREREQ: POLS 101, 141 or PHIL 101.

POLS 442 (PHIL 442) MODERN POLITICAL THOUGHT (3-0-3)(S)(Even years). Development of political thought since Machiavelli. May be taken for either POLS or PHIL credit, but not both. PREREQ: POLS 101, 141 or PHIL 101.

POLS 443 (PHIL 443) CONTEMPORARY POLITICAL THOUGHT (3-0-3)(F)(Even years). Major trends in political thought from the post-French Revolutionary era, which may

include German idealism, historicism, existentialism, nihilism, and Marxism. May be taken for either POLS or PHIL credit, but not both. PREREQ: POLS 101, 141 or PHIL 101.

POLS 467 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 303 or POLS 351 or POLS 352.

POLS 469 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 101 and POLS 102.

POLS 471 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 101 or POLS 102.

POLS 487 (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. PREREQ: senior standing, PERM/INST.

POLS 493 INTERNSHIP (Variable credit). 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 2.50 or higher and POLS 101 or 102 or PERM/INST.

Practical Nursing—see Department of Nursing

Pre-Architecture—see Department of Art

Pre-Forestry and Pre-Wildlife Management—see Department of Biological Sciences

Pre-Professional Programs:

Chiropractic, Dental, Dietetics, Medical Technology, Medicine, Occupational Therapy, Optometry, Pharmacy, Physical Therapy, Physician Assistant, and Veterinary—see Department of Community and Environmental Health

Pre-Law Advising

Information:

Business majors: Michael Bixby
Business Building, Room 313 Telephone 208 426-3675

Social Sciences and Public Affairs majors: Lori Hausegger
Public Affairs and Art West Building, Room 126A Telephone 208 426-5804

Note: both advisors will meet with students from other colleges.

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 material on the law and lawyers, pre-law preparation, application to law schools, and the study of law, along with information on most American law schools. The Boise State University Pre-Law Society also provides resources for those students considering a legal career.

Department of Psychology

College of Social Sciences and Public Affairs

Education Building, Room 629 Telephone 208 426-1207
http://psych.boisestate.edu Fax 208 426-4386
e-mail: pjohnso@boisestate.edu

Chair and Associate Professor: Patt Elison-Bowers. *Professors:* Anooshian, Honts, Landrum, Seibert. *Associate Professor:* Pritchard. *Assistant Professors:* Barlow, Casa de Calvo, Morgan, Schweinle. *Special Lecturer:* Henderson.

Degrees Offered

- B.A., B.S., and Minor in Psychology
- B.A. in Psychology, Social Studies, Secondary Education Emphasis

Department Statement

The College of Social Sciences and Public Affairs, through its Department of Psychology, confers a baccalaureate degree in psychology. Because of the core requirements for all candidates, it 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. (In this catalog, see the sections on economics, history, political science, and sociology.) 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 Minor Certification 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 psychology course that is specifically required for the baccalaureate degree in psychology, students must pass with a grade of C or better.

Psychology
Bachelor of Arts or Bachelor of Science

Course Number and Title	Credits
ENGL 101-102 English Composition	6
Area I—see page 45 for list of approved courses	
Area I core course in literature	3
Area I core course in a second field	3
Area I core course in a third field	3
Area I core course in any field	3
Area II—see page 45 for list of approved courses	
PSYC 101 General Psychology	3
Area II core course in history	3
Area II core course in a third field	3
Area II core course in any field	3
Area III—see page 45 for list of approved courses	
BIOL 227-228 Human Anatomy and Physiology	8
Area III core course in mathematics	4

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Psychology (continued)	
PSYC 120 Introduction to the Psychology Major	1
PSYC 295 Statistical Methods	3
PSYC 321 Research Methods	4
PSYC 335 Physiological Psychology	3
PSYC 489 Capstone Perspectives on Psychological Issues	3
One course chosen from the following: PSYC 405 Advanced Statistical Methods PSYC 421 Psychological Measurement	3
One course chosen from the following: PSYC 343 Cognitive Psychology PSYC 441 Learning	3
One course chosen from the following: PSYC 331 The Psychology of Health PSYC 357 Introduction to Counseling Skills PSYC 455 Industrial/Organizational Psychology PSYC 459 Psychology and Law	3
One course chosen from the following: PSYC 309 Child Development PSYC 310 Adolescent and Adult Development	3
One course chosen from the following: PSYC 301 Abnormal Psychology PSYC 351 Personality PSYC 431 Social Psychology PSYC 438 Community Psychology	3
Upper-division psychology course	3
Mathematics These are in addition to the four credits earned under Area III core requirements.	4
Upper-division electives to total 40 credits	12
Elective to total 128 credits	38
Total	128

Psychology, Social Studies,
Secondary Education Emphasis
Bachelor of Arts

Course Number and Title	Credits
ENGL 101-102 English Composition	6
Area I—see page 45 for list of approved courses	
Area I core course in literature	3
Area I core course in a second field	3
Area I core course in a third field	3
Area I core course in any field	3
Area II	
HIST 111/211 U.S. History	3
HIST 112/212 U.S. History	3
POLS 101 American National Government	3
PSYC 101 General Psychology	3
Area III—see page 45 for list of approved courses	
BIOL 227-228 Human Anatomy and Physiology	8
Area III core course in mathematics	3-5

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Psychology, Secondary Education (continued)	
ED-CIFS 201 Foundations of Education *ED-CIFS 301 Teaching Experience I *ED-CIFS 302 Learning and Instruction *ED-CIFS 401 Professional Year—Teaching Experience II *ED-CIFS 405 Teaching Secondary Social Studies *ED-LTCY 444 Content Literacy for Secondary Students *ED-SPED 350 Teaching Students with Exceptional Needs at the Secondary Level *Teaching Experience III/IV NOTE: *You must apply for admission to secondary teacher education in order to enroll in these upper-division education courses. Completion of all requirements for graduation with a secondary education option may require more than 128 credit hours. See "Department of Curriculum, Instruction, and Foundational Studies" for more information.	3 1 4 2 3 3 3 16
EDTECH 202 Educational Technology	3
U. S. History World History (Any non-U.S. History course) (Must complete 9 credits in U.S. History and 3 in World History)	3 3
POLS 102 State and Local Government Comparative Government chosen from: POLS 311, 321, 324, 325, 329, 333	3 3
PSYC 295 Statistical Methods PSYC 309 Child Development PSYC 310 Adolescent and Adult Development PSYC 335 Physiological Psychology	3 3 3 3
Choose five courses from the following: PSYC 301 Abnormal Psychology PSYC 331 The Psychology of Health PSYC 351 Personality PSYC 431 Social Psychology PSYC 455 Industrial/Organizational Psychology PSYC 459 Psychology and Law	15
Social Studies Requirement (Social Studies State Certification requires that at least one course be completed in **each** of the following disciplines: Economics, Geography, Sociology)	12
Total	130-132

Psychology Minor	
Course Number and Title	**Credits**
PSYC 101 General Psychology PSYC 295 Statistical Methods	3 3
Four of the following: PSYC 301 Abnormal Psychology PSYC 309 Child Development PSYC 310 Adolescent and Adult Development PSYC 331 The Psychology of Health PSYC 351 Personality PSYC 431 Social Psychology PSYC 459 Psychology and Law	12
Upper-division psychology courses	3
Total	21

Psychology Minor Certification Endorsement	
Course Number and Title	**Credits**
PSYC 101 General Psychology PSYC 295 Statistical Methods PSYC 301 Abnormal Psychology PSYC 351 Personality	3 3 3 3
Upper-division psychology courses	9
Total	21

Course Offerings

See page 65 for a definition of the course-numbering system.

PSYC—PSYCHOLOGY

Lower Division

PSYC 101 GENERAL PSYCHOLOGY (3-0-3)(F,S)(Area II). 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 (1-0-1)(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 213 PSYCHOLOGY OF AGING (3-0-3)(F/S). An examination of the functional changes occurring during the aging process. Topics will include contemporary methods in the study of aging, aging as a part of life-span development in perception, cognition, personality, achievement, and family relations. Attention will be given to mental health problems of the aged, diagnosis and therapy. 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.

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, high school algebra.

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.

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.

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.

PSYC 321 RESEARCH METHODS (3-1-4)(F,S). The application of scientific methodology to the study of behavior. Design of experiments, methods of analysis, and interpretation of data; reporting of behavioral research. PREREQ: PSYC 120, PSYC 295.

PSYC 331-331G THE PSYCHOLOGY OF HEALTH (3-0-3)(F/S)(Diversity). 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 335 PHYSIOLOGICAL PSYCHOLOGY (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: PSYC 101, BIOL 227.

PSYC 343 COGNITIVE PSYCHOLOGY (3-0-3)(F). 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.

PSYC 351 PERSONALITY (3-0-3)(F). A study of the major contemporary theories and concepts of personality, with special emphasis on psychoanalytic, humanistic, and behavioral approaches. PREREQ: PSYC 101.

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.

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, 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. May be repeated for a maximum of 6 credits. PREREQ: PERM/INST.

PSYC 405-405G ADVANCED STATISTICAL METHODS (3-0-3)(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 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 and PSYC 309.

PSYC 421-421G PSYCHOLOGICAL MEASUREMENT (3-0-3)(F). Theory and nature of psychological measurement together with a survey of types of psychological tests currently used. PREREQ: PSYC 321.

PSYC 431 (SOC 431) SOCIAL PSYCHOLOGY (3-0-3)(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.

PSYC 438-438G 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 or statistics is recommended but not required. PREREQ: PSYC 101.

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.

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 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.

PSYC 488 DIRECTED RESEARCH IN PSYCHOLOGY (Variable credit). 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, and PERM/INST.

PSYC 489 CAPSTONE PERSPECTIVES ON PSYCHOLOGICAL ISSUES (3-0-3)(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 and senior standing in psychology.

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.

PSYC 493 INTERNSHIP IN PSYCHOLOGY (Variable Credit). Some internship experiences are available through the department. Credit may be granted for psychological activities in applied settings. PREREQ: Psychology major, a cumulative GPA above 3.00, 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. PREREQ: PSYC 101 and PSYC 321, PERM/INST.

PSYC 496 INDEPENDENT STUDY IN PSYCHOLOGY (Variable Credit). 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. PREREQ: Psychology major, a cumulative GPA above 3.00, and PERM/INST.

Public Administration—see Department of Political Science

Public Relations Certificate—see Department of Communication

Department of Radiologic Sciences

College of Health Sciences

Health Science Riverside
http://radsci.boisestate.edu
e-mail: radsci@boisestate.edu
Telephone 208 426-1996
Fax 208 426-4459

Chair, DMS Program Director, and Associate Professor: Joie Burns. *Radiologic Sciences Program Director and Assistant Professor:* Darlene Travis. *MRI and CT Programs Director and Associate Professor:* Lorrie Kelley. *Associate Professor:* Kendrick. *Assistant Professor:* Staley.

Degrees Offered

- A.S. and B.S. in Radiologic Sciences

Department Statement

The Radiologic Sciences Department is one of four departments in the College of Health Sciences. The Radiologic Sciences A.S. program is a three-year associate of science degree program whose graduates are eligible for the national certification examination offered by the American Registry of Radiologic Technologists (ARRT). See the Radiologic Sciences website for special program application and admission process information.

Graduates of the associate degree program may continue their education by pursuing one of four bachelor degree emphases: Computed Tomography (CT), Magnetic Resonance Imaging (MRI), Diagnostic Medical Sonography (DMS), or General Studies. Graduates of the CT and MRI programs are eligible for national certification examinations offered by the ARRT. Graduates of the Sonography program are eligible for national certification examinations offered by both the ARRT and the American Registry for Diagnostic Medical Sonography (ARDMS). Each program has a very specific application and acceptance process with various academic/personal requirements. Please see the Radiologic Sciences Department website to obtain more information about these programs. It is highly recommended that all interested students seek advising prior to application submission.

All students admitted into the A.S. program or the CT, MRI, and DMS emphases 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. See the Radiologic Sciences Department website to obtain more information about this policy.

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.

The Radiologic Sciences A.S. 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.

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 A.S. program must have completed or be in the process of completing the pre-professional curriculum at the time of application. Courses in the pre-professional curriculum are designated with an asterisk (*) in the following degree requirements tables. The pre-professional curriculum need not be taken at Boise State. The program admission policy requires proof of computer competency through completion of the ITM 104 placement test or equivalent to be determined by the program director.

Degree Requirements

Radiologic Sciences Associate of Science	
Course Number and Title	**Credits**
*ENGL 101-102 English Composition	6
Area I—see page 45 for list of approved courses	
*Area I core course in one field	3
Area I core course in a second field	3
Area I core course in any field	3
Area II—see page 45 for list of approved courses	
*COMM 101 Fundamentals of Speech Communication	3
*PSYC 101 General Psychology	3
Area II core course	3
Area III	
*MATH 143 College Algebra **OR** MATH 108 Intermediate Algebra plus a core math course	3-9
*BIOL 227-228 Human Anatomy and Physiology	8
*CHEM 101 Essentials of Chemistry	4
*HLTHST 101 Medical Terminology	3
HLTHST 216 Laboratory Values	1
PHYS 106 Radiographic Physics	3
RADSCI 104 Patient Assessment	1
RADSCI 105 Interdisciplinary Patient Care Skills Lab	2
RADSCI 211 Laboratory Practicum	1
RADSCI 221 Laboratory Practicum	1
RADSCI 222 Radiographic Positioning I	4
RADSCI 226 Radiographic Technique and Control I	1
RADSCI 227 Radiographic Technique and Control Lab	1
RADSCI 228 Radiographic Technique and Control II	3
RADSCI 230 Radiation Biology-Protection	2
RADSCI 234 Introduction to Radiography Clinical Experience	1
RADSCI 242 Radiographic Positioning II	4
RADSCI 262 Contrast Media Examinations	1
RADSCI 285 Clinical Experience	4
RADSCI 310 Pharmacology and Contrast Medias	1
RADSCI 321 Radiographic Practicum	1
RADSCI 330 Introduction to Sectional Anatomy	1
RADSCI 338 Digital Radiography and PACS	3
RADSCI 340 Radiographic Quality Assurance	3
RADSCI 350 Medical and Surgical Diseases	3
RADSCI 360 Special Radiographic Procedures	2
RADSCI 375 Clinical Experience	4
RADSCI 376 Clinical Experience	4
RADSCI 385 Clinical Experience	6
RADSCI 392 Radiologic Colloquium	1
RADSCI 395 Clinical Experience	6
Total	107-113

*Indicates a course in the pre-professional curriculum

NOTE: The A.S. degree awarded in radiologic sciences does not meet the university core requirements and do not comply with the Idaho Statewide Articulation Policy.

Special Lab Fees

Students who are admitted in the Radiologic Sciences A.S., Computed Tomography, Magnetic Resonance Imaging and Diagnostic Medical Sonography programs pay additional laboratory fees at the time of enrollment for some courses. See the *Schedule of Classes* for specific courses and amounts.

Radiologic Sciences Bachelor of Science	
Course Number and Title	**Credits**
ENGL 101-102 English Composition	6
Area I—see page 45 for list of approved courses	
Area I core course in one field	3
Area I core course in a second field	3
Area I core course in a third field	3
Area I core course in any field	3
Area II—see page 45 for list of approved courses	
COMM 101 Fundamentals of Speech Communication	3
PSYC 101 General Psychology	3
Area II core course in a third field	3
Area II core course in any field	3
Area III—see page 45 for list of approved courses	
MATH 143 College Algebra **OR** MATH 108 Intermediate Algebra plus a core math course	3-9
BIOL 227-228 Human Anatomy and Physiology	8
CHEM 101 Essentials of Chemistry	4
HLTHST 101 Medical Terminology	3
HLTHST 216 Laboratory Values	1
PHYS 106 Radiographic Physics	3
RADSCI 104 Patient Assessment	1
RADSCI 105 Interdisciplinary Patient Care Skills Lab	2
RADSCI 211 Laboratory Practicum	1
RADSCI 221 Laboratory Practicum	1
RADSCI 222 Radiographic Positioning I	4
RADSCI 226 Radiographic Technique and Control I	1
RADSCI 227 Radiographic Technique and Control Lab	1
RADSCI 228 Radiographic Technique and Control II	3
RADSCI 230 Radiation Biology-Protection	2
RADSCI 234 Introduction to Radiography Clinical Experience	1
RADSCI 242 Radiographic Positioning II	4
RADSCI 262 Contrast Media Examinations	1
RADSCI 285 Clinical Experience	4
RADSCI 310 Pharmacology and Contrast Medias	1
RADSCI 321 Radiographic Practicum	1
RADSCI 330 Introduction to Sectional Anatomy	1
RADSCI 338 Digital Radiography and PACS	3
RADSCI 340 Radiographic Quality Assurance	3
RADSCI 350 Medical and Surgical Diseases	3
RADSCI 360 Special Radiographic Procedures	2
RADSCI 375 Clinical Experience	4
RADSCI 376 Clinical Experience	4
RADSCI 385 Clinical Experience	6
RADSCI 392 Radiologic Colloquium	1
RADSCI 395 Clinical Experience	6
Area of Emphasis: Students complete an emphasis in General Studies, Computed Tomography, Magnetic Resonance Imaging, or Diagnostic Medical Sonography **after completing the above associate degree, or an equivalent associate degree approved by the Department Chair.** Each area of emphasis has specific requirements which are listed below.	
***Computed Tomography Emphasis**	
HLTHST 300 Pathophysiology	4
KINES 270-271 Applied Anatomy and Lab **OR** Upper-division elective	3
RADSCI 430 Comparative Sectional Imaging	3
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

—continued—

Radiologic Sciences, Bachelor of Science (continued)	
Upper-division Area II or Area III course **OR** Upper-division elective	3
Total	135-141
***Diagnostic Medical Sonography Emphasis**	
HLTHST 300 Pathophysiology HLTHST 314 Health Law and Ethics **OR** HLTHST 434 Healthcare Bioethics	4 3
RADSCI 430 Comparative Sectional Imaging RADSCI 460 Sonographic Physics and Instrumentation RADSCI 461 Abdominal Sonography RADSCI 462 Obstetrics/Gynecology Sonography RADSCI 463 Doppler Procedures RADSCI 464 Special Sonographic Procedures RADSCI 467 Clinical Experience in Medical Sonography I RADSCI 468 Clinical Experience in Medical Sonography II RADSCI 469 Clinical Experience in Medical Sonography III	3 3 3 3 1 1 4 5 6
Upper-division Area II or Area III course **OR** Upper-division elective	0-2
Total	149-157
General Studies Emphasis	
HLTHST 202 Health Delivery Systems	3
MGMT 301 Leadership Skills **OR** HLTHST 304 Public Health MGMT 305 Human Resource Management	3 3
RADSCI 400 Development of an Imaging Department **OR** HLTHST 431 Quality Issues in Health Care	3
Upper-division Area II or Area III course **OR** Upper-division elective	3
Upper-division electives	6
Total	134-140
***Magnetic Resonance Imaging Emphasis**	
HLTHST 300 Pathophysiology	4
RADSCI 430 Comparative Sectional Imaging RADSCI 440 Principles of Magnetic Resonance Imaging I RADSCI 440L Principles of Magnetic Resonance Imaging I Lab RADSCI 441 Procedural Case Studies in Magnetic Resonance Imaging I RADSCI 442 Principles of Magnetic Resonance Imaging II RADSCI 442L Principles of Magnetic Resonance Imaging II Lab RADSCI 443 Procedural Case Studies in Magnetic Resonance Imaging II RADSCI 445 Clinical Experience in Magnetic Resonance Imaging I RADSCI 446 Clinical Experience in Magnetic Resonance Imaging II	3 3 1 1 3 1 1 4 4
Upper-division Area II or Area III course **OR** Upper-division elective	0-2
Total	138-146
*Application and Acceptance Required	

Course Offerings

See page 65 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 INTERDISCIPLINARY PATIENT CARE SKILLS LAB (0-6-2)(F). An interdisciplinary 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 (4-0-4)(F). The basic concepts and procedures used in obtaining diagnostic radiographs of the upper and lower extremities, chest, and abdomen. COREQ: RADSCI 211.

RADSCI 226 RADIOGRAPHIC TECHNIQUE AND CONTROL I (1-0-1)(F). An introduction to the basic principles of x-ray machine operation, production of x-radiation, and its interaction with matter. The factors affecting exposure values, fog, scatter, density, contrast, and detail will be evaluated during image analysis. COREQ: RADSCI 227 and PHYS 106.

RADSCI 227 RADIOGRAPHIC TECHNIQUE AND CONTROL LABORATORY (0-2-1)(F). A laboratory experience where students apply the principles of x-ray machine operation and practical application of all image materials. COREQ: RADSCI 226.

RADSCI 228 RADIOGRAPHIC TECHNIQUE AND CONTROL II (3-0-3)(S). An in-depth analysis of all factors affecting the radiographic image to include the photographic properties of density and contrast and the geometric properties of definition, visibility of detail, and distortion. Primary emphasis will be placed on problem solving and reasoning for practical image quality analysis. Included will be processing, image intensification, and photo timing. PREREQ: RADSCI 226.

RADSCI 230 RADIATION BIOLOGY-PROTECTION (2-0-2)(S)(Diversity). General survey of radiation hazards and the potential consequences to both technologist and patient. The most appropriate means of minimizing the radiation dose will be emphasized. PREREQ: RADSCI major or PERM/INST.

RADSCI 234 INTRODUCTION TO RADIOGRAPHY CLINICAL EXPERIENCE (1-0-1)(F) (Diversity). Introduction to clinical agency structure, health law and ethics, professionalism and initial clinical practice. Professional observation required. PREREQ: RADSCI major or PERM/INST.

RADSCI 242 RADIOGRAPHIC POSITIONING II (4-0-4)(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 262 CONTRAST MEDIA EXAMINATIONS (1-0-1)(S). Study of radiographic procedures that require the use of contrast media and advanced equipment, sterile technique, advanced methods and/or invasive patient procedures. PREREQ: RADSCI 105.

RADSCI 285 RADIOLOGIC SCIENCES CLINICAL EXPERIENCE (0-16-4)(S). Supervised clinical hospital experience. The student must complete 75% minimum of recently taught radiographic exams. PREREQ: RADSCI 234.

Upper Division

RADSCI 310 PHARMACOLOGY AND CONTRAST MEDIAS (1-0-1)(F/S)(Diversity). Concepts of pharmacology as it relates to the delivery of contrast medias and selected medications associated with contrast media reactions. PREREQ: HLTHST 216.

RADSCI 321 RADIOGRAPHIC PRACTICUM (0-3-1)(S). An evaluation of the synthesis of advanced radiographic concepts. Identified areas of weakness will be addressed. PREREQ: PHYS 106, RADSCI 226, RADSCI 228.

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 DIGITAL RADIOGRAPHY AND PACS (3-0-3)(F). Analysis of new radiographic imaging systems to include digital image data management and information management with PACS, RIS, and HIS for computed and direct digital imaging applications. PREREQ: RADSCI 228.

RADSCI 340 RADIOGRAPHIC QUALITY ASSURANCE (3-0-3)(S). Theory and application of quality assurance techniques for radiographic equipment. Includes demonstrations with various quality assurance instruments. Principles and techniques of daily photographic quality assurance will be introduced. PREREQ: RADSCI 226.

RADSCI 350 MEDICAL AND SURGICAL DISEASES (3-0-3)(S). General survey of various diseases and pathology of the human body as they pertain to radiology. Emphasis on how pathology is demonstrated on medical images and its effect on radiographic diagnosis. PREREQ: RADSCI 242.

RADSCI 360 SPECIAL RADIOGRAPHIC PROCEDURES (2-0-2)(S)(Diversity). Fundamental concepts of the more specialized radiographic procedures with emphasis on the systemic circulatory system, mammography, and bone density studies. PREREQ: RADSCI 262.

RADSCI 375 RADIOLOGIC SCIENCES CLINICAL EXPERIENCE (0-40-4)(SU). Supervised clinical hospital experience. The student must demonstrate competency of recently taught radiographic exams plus continued competency of the exams previously evaluated. PREREQ: RADSCI 285.

RADSCI 376 RADIOLOGIC SCIENCES CLINICAL EXPERIENCE (0-40-4)(SU). Supervised clinical hospital experience. The student must demonstrate competency of recently taught radiographic exams plus continued competency of the exams previously evaluated. PREREQ: RADSCI 375.

RADSCI 385 RADIOLOGIC SCIENCES CLINICAL EXPERIENCE (0-24-6)(F). Supervised clinical hospital experience. The student must complete a minimum 40% of exams involving the skull, 40% exams in special procedures, and 50% continued competency exam list. PREREQ: RADSCI 375.

RADSCI 392 RADIOLOGIC COLLOQUIUM (1-0-1)(S). Topics will be selected from current health care issues. These topics will be presented for discussion by appropriate health care professionals. PREREQ: RADSCI major or PERM/INST.

RADSCI 395 RADIOLOGIC SCIENCES CLINICAL EXPERIENCE (0-24-6)(S). Supervised clinical hospital experience. The student must complete a minimum 40% of special procedures and 50% continued competency exam list. Plus rotation in minor affiliates. PREREQ: RADSCI 385.

RADSCI 400 DEVELOPMENT OF AN IMAGING DEPARTMENT (3-0-3)(S). Introduction to the set up and operation of a radiology department including design principles, projection of demands, and providing for growth and development. Structural and shielding requirements will be discussed. PREREQ: PERM/INST.

RADSCI 430 COMPARATIVE SECTIONAL IMAGING IN THE RADIOLOGIC SCIENCES (3-0-3)(F). 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: 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/S). 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/S). 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.

RADSCI 462 OBSTETRICS/GYNECOLOGY SONOGRAPHY (3-0-3)(S). Provides information on the basic female pelvic anatomy and anomalies, obstetrical scanning for the placenta from the first trimester through term, assessment of the gestational age, pathological complication, and patient care and preparation. Also includes general gynecological exams and scanning techniques. PREREQ: PERM/INST.

RADSCI 463 DOPPLER PROCEDURES (1-0-1)(S). Provides the foundation needed to understand concepts of producing diagnostic images and information utilizing the various Doppler tools currently available. PREREQ: PERM/INST.

RADSCI 464 SPECIAL SONOGRAPHIC PROCEDURES (1-0-1)(S). Provides descriptive information for special sonographic studies to include imaging of the thyroid, parathyroid, neck masses, superficial structures, breast, male reproductive organs, and chest. Also includes orthopedic, pediatric, ophthalmic, and thoracentesis application. PREREQ: PERM/INST.

RADSCI 467 CLINICAL EXPERIENCE IN MEDICAL SONOGRAPHY I (0-24-4)(F). Supervised clinical experience in diagnostic medical sonography. Students will be given the opportunity to apply sonographic theory as presented in lecture. Limited to students in the ultrasound program.

RADSCI 468 CLINICAL EXPERIENCE IN MEDICAL SONOGRAPHY II (0-24-5)(S). Supervised clinical experience in diagnostic medical sonography. Students will be given the opportunity to apply sonographic theory as presented in lecture. PREREQ: RADSCI 467.

RADSCI 469 CLINICAL EXPERIENCE IN MEDICAL SONOGRAPHY III (0-29-6)(SU). Supervised experience in diagnostic medical sonography. Students will be given the opportunity to apply sonographic theory as presented in lecture. PREREQ: RADSCI 468.

Department of Respiratory Care

College of Health Sciences

Health Sciences Riverside, Room 116 Telephone 208 426-3383
http://respther.boisestate.edu/ Fax 208 426-4093
e-mail: cdudley@boisestate.edu

Chair and Professor: Lonny J. Ashworth. *Director of Clinical Education and Associate Professor:* Jeffrey M. Anderson. *Medical Director:* Wm. Dittrich, M.D. *Associate Professor:* Lester. *Associate Professor:* Wing. *Instructor:* Haan.

Degrees Offered

- A.S. and B.S. 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 consists of a pre-professional year followed by two years of professional study, leading to an associate of science degree in respiratory care. The associate of science degree qualifies students for the examination of the National Board for Respiratory Care. Students may continue on for an additional year, to earn the baccalaureate degree.

The Respiratory Care Program has been granted accreditation by the Committee on Accreditation for Respiratory Care.

Degree Requirements

Requirements for Admission to Respiratory Care

1. Pre-Professional Year

   See Chapter 3 for admission policies.

2. Professional Program

   A. Only students who have completed or are in the process of completing the pre-professional curriculum 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.

All students admitted to the Respiratory Care Program are required to submit a negative PPD and document positive rubella and rubeola immunity and varicella immunization or clinical case to the department by August of the year in which the student enters the professional program. A chest x-ray is required if the PPD is positive. The department recommends hepatitis B immunizations.

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.

Application Process

1. Pre-professional Year

   See Chapter 3 for admission policies.

2. Professional Program

   A. All respiratory care program applicants must submit to the Department of Respiratory Care a completed "Special Programs Application" 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. Students accepted into the program are required to pay $5.50 for a name pin at the time of fall semester registration.

   E. Lab fees of $16.00 - $80.00 and clinical insurance fees of $14.50 must be paid once each academic year at the time of fall semester registration.

   F. A fee of $125.00 is required for the Patient Care Skills Lab.

   G. A $90.00 fee is required for RESPCARE 328

   H. All fees noted in D, E, F, and G above 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.

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.

Preprofessional 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.

**Respiratory Care
Associate of Science**

Course Number and Title	Credits
*ENGL 101-102 English Composition	6
Area I—see page 45 for list of approved courses	
*Area I core course in one field	3
*Area I core course in a second field	3
Area I core course in third field	3
Area I core course in any field	3
Area II—see page 45 for list of approved courses	
Area II core course in one field	3
*Area II core course in second field	3
*Area II core course in third field	3
Area II core course in any field	3
Area III—see page 45 for list of approved courses	
*BIOL 227-228 Human Anatomy and Physiology	8
*Area III core course in mathematics	3-5
*CHEM 101 Essentials of Chemistry	4
HLTHST 216 Laboratory Values	1
HLTHST 220 Cardiopulmonary Renal Physiology	3

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Respiratory Care, A.S. (continued)	
RESPCARE 104 Patient Assessment	1
RESPCARE 105 Interdisciplinary Patient Care Skills Lab	2
RESPCARE 200 Recitation and Application I	1
RESPCARE 203 Respiratory Care Theory I	3
RESPCARE 204 Respiratory Care Laboratory I	1
RESPCARE 208 Clinical Practicum I	2
RESPCARE 217 Pulmonary Assessment	1
RESPCARE 221 ECG Interpretation	1
RESPCARE 222 Interpretation of Chest Images	1
RESPCARE 223 Respiratory Care Theory II	3
RESPCARE 224 Respiratory Care Laboratory II	1
RESPCARE 225 Pulmonary Function Lecture	2
RESPCARE 226 Pulmonary Function Laboratory	1
RESPCARE 227 Pulmonary Medicine	2
RESPCARE 228 Clinical Practicum II	4
RESPCARE 250 Recitation and Application II	1
RESPCARE 300 Recitation and Application III	1
RESPCARE 301 Principles of Pharmacotherapeutics	3
RESPCARE 302 General Pathology	2
RESPCARE 303 Respiratory Care Theory III	3
RESPCARE 304 Respiratory Care Laboratory III	1
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 350 Recitation and Application IV	2
*UNIV 106 Library Skills	1
Total	103-105
*Indicates a course in the pre-professional curriculum	

Baccalaureate Degree Curriculum for Boise State University, Associate of Science in Respiratory Care graduates.

To receive a baccalaureate degree in respiratory care each student must have met and satisfactorily completed all requirements for the associate of science degree at Boise State.

Respiratory Care Bachelor of Science	
Course Number and Title	**Credits**
Successful completion of Associate of Science, Respiratory Care	103-105
ENGL 101-102 English Composition	6
Area I—see page 45 for list of approved courses	
*Area I core course in one field	3
*Area I core course in a second field	3
*Area I core course in third field	3
*Area I core course in any field	3
Area II—see page 45 for list of approved courses	
*Area II core course in one field	3
*Area II core course in second field	3
*Area II core course in third field	3
*Area II core course in any field	3
Area III—see page 45 for list of approved courses	
*Area III core course in mathematics	3-5
*Area III core course in a second field	4
*Area III core course in any field	4
Area II or III	
Area II or III electives	9
HLTHST 432 Critical Review of Health Care Research	3

—continued—

Respiratory Care, B.S. (continued)	
RESPCARE 403 Respiratory Care Theory V	3
RESPCARE 431 Quality Improvement in Health Care	3
RESPCARE 440 Advanced Patient Monitoring and Assessment	3
RESPCARE 441 Teaching Techniques for Health Care Professionals	3
Electives to total 128 credits	0-5
Total	128
*Indicates a course in the pre-professional curriculum	

Baccalaureate Degree Curriculum for students who did **NOT** earn an Associate of Science in Respiratory Care from 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 Science 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 Bachelor of Science	
Course Number and Title	**Credits**
Successful completion of Associate of Science, Respiratory Care	72
Upper-division challenge credits for passing NBRC RRT Examinations	26
HLTHST 432 Critical Review of Health Care Research	3
RESPCARE 403 Respiratory Care Theory V	3
RESPCARE 431 Quality Improvement in Health Care	3
RESPCARE 440 Advanced Patient Monitoring and Assessment	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 & Management for Health Care Professionals	3
RESPCARE 445 Patient Advocacy and Ethical Considerations	3
RESPCARE 498 Senior Seminar	3
Total	128

Course Offerings

See page 65 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 INTERDISCIPLINARY PATIENT CARE SKILLS LAB (1-4-2)(F). An interdisciplinary 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 (0-2-1)(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 217 PULMONARY ASSESSMENT (1-0-1)(S). Theory and application of basic pulmonary assessment including inspection, palpation, percussion, and auscultation. PREREQ: BIOL 227-228.

RESPCARE 221 ECG INTERPRETATION (1-0-1)(S). Basic interpretation of the electrocardiogram and recognition of cardiac arrhythmias. PREREQ: BIOL 227-228.

RESPCARE 222 INTERPRETATION OF CHEST IMAGES (1-0-1)(S). Clinical interpretation of chest images. PREREQ: Respiratory Care major or PERM/INST.

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 (0-2-1)(S). Use of hyperinflation therapy devices, chest physiotherapy, and mechanical ventilation. PREREQ: RESPCARE 203. COREQ: RESPCARE 223, RESPCARE 228, RESPCARE 250.

RESPCARE 225 PULMONARY FUNCTION LECTURE (2-0-2)(S). Theory of pulmonary diagnostic procedures to include spirometry, lung volumes, diffusing capacity, clinical exercise tests, lung mechanics, blood gas analysis and arterial puncture. PREREQ: PERM/INST.

RESPCARE 226 PULMONARY FUNCTION LABORATORY (0-2-1)(S). Practice in pulmonary function testing and techniques. PREREQ: PERM/INST.

RESPCARE 227 PULMONARY MEDICINE (2-0-2)(S). Discussion of pulmonary diseases, certain cardiac diseases, and the clinical management of these diseases. PREREQ: BIOL 227-228; Respiratory Care major or PERM/INST.

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 248 SUMMER CLINICAL PRACTICUM (0-V-V)(SU). Experience in critical care units with patients, techniques and equipment as applied to mechanical ventilation and artificial airways. (Pass/Fail.) PREREQ: RESPCARE 228 and PERM/INST.

RESPCARE 250 RECITATION AND APPLICATION II (1-0-1)(S). Review, discussion, and application of information presented in theory and lab with reference to clinical situations. PREREQ: RESPCARE 203. COREQ: RESPCARE 223, RESPCARE 224, RESPCARE 228.

Upper Division

RESPCARE 300 RECITATION AND APPLICATION III (1-0-1)(F). Review, discussion, and application of information presented in theory and lab with reference to clinical situations. PREREQ: RESPCARE 223. COREQ: RESPCARE 303, RESPCARE 304, RESPCARE 308.

RESPCARE 301 PRINCIPLES OF PHARMACOTHERAPEUTICS (3-0-3)(F). Principles, practical uses, and interaction of drugs and their relationship to disease. PREREQ: BIOL 227-228.

RESPCARE 302 GENERAL PATHOLOGY (2-0-2)(F). 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 (0-2-1)(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 350 RECITATION AND APPLICATION IV (2-0-2)(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 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 ADVANCED PATIENT MONITORING AND ASSESSMENT (3-0-3)(F). Techniques and methods used to analyze and evaluate the health status of critically ill patients with emphasis on the respiratory, cardiovascular, and renal systems. Recommended for those individuals with experience working within a critical care facility. 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). Supervised practice in various health care facilities. PREREQ: RESPCARE 323 and PERM/INST.

RESPCARE 498 SENIOR SEMINAR (3-0-3)(S). Online discussions of topics related to respiratory care. PREREQ: Department approval or PERM/INST.

School of Social Work

College of Social Sciences and Public Affairs

Education Building, Room 716 Telephone 208 426-1568
http://www.boisestate.edu/socwork Fax 208 426-4291

Director and Associate Professor: Roy Rodenhiser. *B.A. Coordinator and Associate Professor:* Robin Allen. *M.S.W. Coordinator and Associate Professor:* Will Rainford. *Practicum Director:* Jim Knapp. *Professors:* Harkness. *Associate Professors:* Cotrell, Dooley, Liley, Sanders. *Assistant Professors:* Kenaley, Wall.

Degrees Offered

- B.A. in Social Work
- Master of Social Work (See the *BSU Graduate Catalog.*)

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: ENGL 101-102, Area I course in literature, three Area I courses in arts and humanities, Area II history course, COMM 101, POLS 101 or POLS 102, SOC 230 or ANTH 209, SOC 101, PSYC 101, ECON 201 or ECON 202, SOCWRK 101 (earning a grade of B or better), SOCWRK 201 (earning a grade of B or better), PSYC 309, BIOL 100, Area III mathematics course, Area III core course.
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 course work 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 59-61 prerequisite credit hours. Interested students may obtain current application materials and procedures at the Social Work office or on the School of Social Work web page (http://www.boisestate.edu/socwork/).

Degree Requirements

Social Work
Bachelor of Arts

Course Number and Title	Credits
ENGL 101-102 English Composition	6
Area I—see page 45 for list of approved courses	
Area I core course in literature	3
Area I core course in a second field	3
Area I core course in a third field	3
Area I core course in a any field	3
Area II—see page 45 for list of approved courses	
ECON 201 Principles of Macroeconomics **OR** ECON 202 Principles of Microeconomics	3
PSYC 101 General Psychology	3
SOC 101 Introduction to Sociology	3
Area II core course in history	3
Area III—see page 45 for list of approved courses	
BIOL 100 Concepts of Biology	4
Area III core course in mathematics	3-5
Area III core course in any field	4
COMM 101 Fundamentals of Speech Communication	3
POLS 101 American National Government **OR** POLS 102 State and Local Government	3
PSYC 309 Child Development	3
PSYC 310 Adolescent and Adult Development	3
SOC 230 Introduction to Multi-Ethnic Studies **OR** ANTH 209 Issues of Global Diversity	3
SOCWRK 101 Introduction to Social Welfare	3
SOCWRK 201 Foundations of Social Work	3
SOCWRK 301 Social Welfare Policy	3
SOCWRK 321 Human Behavior in Social Environment	3
SOCWRK 333 Generalist Social Work Practice I: Individuals	3
SOCWRK 380 Social Work Research Methods and Statistics	3
SOCWRK 444 Generalist Social Work Practice II: Households 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
SOCWRK 498, 499 Senior Seminar I & II	2
Upper-division social work electives	6
Diversity Cluster courses chosen from: ANTH 307, COMM 122, COMM 322, ENGL 213, ENGL 215, ENGL 391, ENGL 412, GENDER 300, HIST 251, HIST 344, HIST 363, HIST 366, HIST 369, HIST 371, HIST 372, SOC 278, SOC 279, SOC 305, SOC 306, SOC 307, SOC 325, SOC 333, SOC/GENDER 371, SOC 471/GENDER 301, SOC 481, Modern Language.	6-9
Electives to total 128 credits	19-24
Total	128

Course Offerings

See page 65 for a definition of the course-numbering system.

SOCWRK—SOCIAL WORK

Lower Division

SOCWRK 101 INTRODUCTION TO SOCIAL WELFARE (3-0-3)(F/S)(Area II). Survey of contemporary social welfare programs, their historical development, underlying philosophy, and the need for social services in a modern society.

SOCWRK 201 FOUNDATIONS OF SOCIAL WORK (2-3-3)(F/S). Introduction to knowledge, values, and skills of strengths-based generalist practice. Skill development in interviewing and generalist process of data collection, assessment, planning, implementation, evaluation and termination. Survey of history of social work and practice in contemporary social service delivery systems. Service learning component of 45 clock hours in approved social service organization. PRE/COREQ: SOCWRK 101.

SOCWRK 293-493 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.

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 321 HUMAN BEHAVIOR IN THE SOCIAL ENVIRONMENT (3-0-3)(F/S). Presents theories and knowledge of social systems effects on human development, behavior, health, and well-being. A range of theories is critically analyzed relative to a variety of social issues, with emphasis on social and economic justice, in the context of social work values, ethics, and practice. PREREQ: Admission to BSW candidacy and PSYC 309. PRE/COREQ: PSYC 310.

SOCWRK 333 GENERALIST SOCIAL WORK PRACTICE I: INDIVIDUALS (3-0-3)(F/S). Social work practice from a strengths-based generalist perspective integrating human behavior theories with models of practice, relationship building, ethical issues, ethnic and cultural dimensions and foundation methods of evidence-based practice with individuals. PREREQ: Admission to BSW candidacy and SOCWRK 201. PRE/COREQ: SOCWRK 301 and SOCWRK 321.

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.

SOCWRK 414 CHILD WELFARE (3-0-3)(F/S). Systemic intervention and response to issues such as substance abuse, child abuse, domestic violence, and other issues affecting the well being of children and families. Emphasis on strengths-based social work practice and current policy issues.

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.

SOCWRK 444 GENERALIST SOCIAL WORK PRACTICE II: HOUSEHOLDS, FAMILIES, AND GROUPS (3-0-3)(F/S). Social work practice from a strengths-based generalist perspective including models of practice integrating human behavior theories and various evidence-based interventive models with households, families, and groups. PREREQ: SOCWRK 333. COREQ: SOCWRK 455.

SOCWRK 455 GENERALIST SOCIAL WORK PRACTICE III: ORGANIZATIONS AND COMMUNITIES (3-0-3)(F/S). Social work practice from a strengths-based generalist perspective including models of practice integrating human behavior theories and various evidence-based interventive change models with organizations and communities. PREREQ: SOCWRK 333. COREQ: SOCWRK 444.

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 444, SOCWRK 455, 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 498 SENIOR SEMINAR I (1-0-1)(F). Facilitates and encourages the student's development as an entry level strengths-based generalist practitioner through the synthesis of social work theory, practice and values. COREQ: SOCWRK 480.

SOCWRK 499 SENIOR SEMINAR II (1-0-1)(S). Continuation of SOCWRK 498. COREQ: SOCWRK 481.

Department of Sociology

College of Social Sciences and Public Affairs

Library Building, Room 171 Telephone 208 426-3406
http://sociology.boisestate.edu Fax 208 426-2098
e-mail: lrobinso@boisestate.edu

Chair and Associate: Martin Orr. *Professors:* Blain, McCarl. *Associate Professors:* Husting, Patrick. *Assistant Professors:* Romero, Scarritt, Wu.

Degrees Offered

- A.A. in Social Science
- B.A. and Minor in Multi-Ethnic Studies
- B.A. and B.S. in Social Science
- B.A., B.S., and Minor in Sociology
- B.A. in Sociology, Social Science, Secondary Education
- B.A. in Sociology, Social Studies, Secondary Education Emphasis
- Mexican-American Studies Minor

Department Statement

The faculty of the Department of Sociology are committed to the democratic belief in the power of scientific reason to solve human social problems. As a faculty, we believe that an ability to think critically about public affairs is one of the marks of an educated person and a key to the resolution of many important problems. Consistent with these beliefs and commitments, the faculty's primary aims are to provide high quality teaching, research, and public service in social science.

The degree programs administered by the Department of Sociology are central to the State Board of Education's mandate that Boise State University be the lead institution in social sciences and public affairs. Departmental programs include five baccalaureate degrees, one associate of arts degree in social science, and three minors. Faculty also participate in the following interdisciplinary studies programs: gender studies, Canadian studies, a gerontology minor, and the master of interdisciplinary studies degree program.

Degree Requirements

The social science degree is a cooperative program involving the departments of anthropology, communication, criminal justice, economics, gender studies, history, political science, psychology, and sociology. Its purpose is to provide students with the opportunity to pursue an interdisciplinary program of study in social science tailored to their specific academic and/or vocational interests.

Social Science
***Bachelor of Arts or **Bachelor of Science**

Course Number and Title	Credits
ENGL 101-102 English Composition	6
Area I—see page 45 for list of approved courses	
Area I core course in one field	3
Area I core course in a second field	3
Area I core course in third field	3
Area I core course in any field	3
(B.A. must complete 3 credits of Area I core literature)	
Area II—see page 45 for list of approved courses	
Area II core course in one field	3
Area II core course in second field	3
Area II core course in third field	3
Area II core course in any field	3
(B.A. must complete 3 credits of Area II core history)	
Area III—see page 45 for list of approved courses	
Area III core course in mathematics	3-5
Area III core course in a second field	4
Area III core course in any field	4

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Social Science, Bachelor of Arts or Science (continued)	
***Bachelor of Arts**	
One year of college level foreign language in sequence Language equivalency required by the Sociology Department will be determined by the Department of Modern Languages and Literature or the classical language program director.	8
****Bachelor of Science**	
Area II or III electives These courses do not have to be selected from the approved core list, but are to be chosen from anthropology, biology, chemistry, communication, criminal justice, economics, ED-CIFS, engineering, geography, geosciences, history, mathematics, physical science, physics, political science, psychology, social work, and sociology.	9
SOC 201 Theories of Society SOC 210 Computer Applications in Social Science	3 4
SOCSCI 498 Senior Seminar	3
– 493 Internship or – 496 Independent Study	3
Methods course: COMM 302, GENDER 302, HIST 291, POLS 398, PSYC 321, SOC 311, or SOC 412	3
Upper-division first field Upper-division second field 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.	12 12
***Bachelor of Arts**	
Upper-division electives to total 40 credits	7-10
Electives to total 128 credits	27-32
Total	128
****Bachelor of Science**	
Statistics course: PSYC 295, POLS 298, or SOC 310	3-4
Upper-division electives to total 40 credits	3-10
Electives to total 128 credits	22-32
Total	128

Sociology is a social science devoted to the empirical analysis 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, computer-applications, and statistical analysis.

Sociology *Bachelor of Arts or Bachelor of Science	
Course Number and Title	**Credits**
ENGL 101-102 English Composition	6
Area I—see page 45 for list of approved courses	
Area I core course in one field Area I core course in a second field Area I core course in third field Area I core course in any field (B.A. must complete 3 credits of Area I core literature)	3 3 3 3
Area II—see page 45 for list of approved courses	
Area II core course in one field Area II core course in second field Area II core course in third field Area II core course in any field (B.A. must complete 3 credits of Area II core history)	3 3 3 3

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Sociology, Bachelor of Arts or Science (continued)	
Area III—see page 45 for list of approved courses	
Area III core course in mathematics Area III core course in a second field Area III core course in any field	3-5 4 4
B.A. Area I or II courses **OR** B.S. Area II or III courses	9
SOC 101 Introduction to Sociology SOC 210 Computer Applications in Social Science SOC 301 Sociology Theory I SOC 302 Sociology Theory II SOC 310 Elementary Social Statistics SOC 311 Social Research SOC 490 Senior Practicum **OR** SOC 496 Independent Study	3 4 3 3 4 3 3
SOC 498 Sociology Seminar	3
15 credit hours of electives chosen from the sociology course offerings are required for the major. The department maintains undergraduate specializations from which students may choose some of their elective courses: 1) **Social Research:** SOC 410 Advanced Social Statistics, SOC 412 Qualitative Social Research, SOC 493 Internship in social research settings. 2) **Dispute Resolution:** SOC 290 Social Conflict and Peacemaking, SOC 390 Conflict Management, SOC 395 The Sociology of Peace and War, SOC 493 Internship in dispute resolution settings. 3) **Social Diversity:** Minimum of twelve (12) credit hours selected from the following: SOC 230 Introduction to Multi-ethnic Studies, SOC 305 Racial and Cultural Minorities, SOC 306 Sociology of African Americans, SOC 307 The Asian American Social Experience, SOC 333 Mexican-American Life Through Sociology, Literature, and Practice, SOC 421 Social Inequality, SOC 471 Feminist Sociological Theory, SOC 481 Sociology of Gender and Aging, and SOC 493 Internship in culturally or socially diverse settings.	15
Upper-division electives to total 40 credits	6
Electives to total 128 credits	26-28
Total	128
NOTE: *The B.A. degree requires one year of a foreign language.	

Any Boise State baccalaureate student may earn a minor in sociology by satisfying the requirements listed below (in addition to requirements for a major and university requirements).

Sociology Minor	
Course Number and Title	**Credits**
SOC 101 Intro to Sociology SOC 301 Sociological Theory I SOC 311 Social Research	3 3 3
Upper-division Sociology courses	9
Sociology course	3
Total	21

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 reflective practitioner. Reflective practitioners 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 Emphasis Bachelor of Arts

Course Number and Title	Credits
ENGL 101-102 English Composition	6
Area I—see page 45 for list of approved courses	
Area I core course in literature	3
Area I core course in a second field	3
Area I core course in a third field	3
Area I core course in any field	3
Area II—see page 45 for list of approved courses	
Area II core course in U. S. History	3
POLS 101 American National Government	3
Area II core course in a third field	3
Area II core course in any field	3
Area III—see page 45 for list of approved courses	
Area III core course in mathematics	4
Area III core course in a second field	4
Area III core course in any field	4
ED-CIFS 201 Foundations of Education	3
*ED-CIFS 301 Teaching Experience I	1
*ED-CIFS 302 Learning and Instruction	4
*ED-CIFS 401 Professional Year—Teaching Experience II	2
*ED-CIFS 405 Teaching Secondary Social Studies	3
*ED-LTCY 444 Content Literacy for Secondary Students	3
*ED-SPED 350 Teaching Students with Exceptional Needs at the Secondary Level	3
*Teaching Experience III/IV	16
NOTE: *You must apply for admission to secondary teacher education in order to enroll in these upper-division education courses. Completion of all requirements for graduation with a secondary education option may require more than 128 credit hours. See "Department of Curriculum, Instruction, and Foundational Studies" for more information.	
EDTECH 202 Educational Technology	3
SOC 101 Introduction to Sociology	3
SOC 210 Computer Applications in Social Sciences	4
SOC 301 Sociological Theory I	3
SOC 302 Sociological Theory II	3
SOC 310 Elementary Social Statistics	4
SOC 311 Social Research	3
SOC 498 Sociology Seminar	3
Upper-division Sociology courses	16
Social science field other than sociology	21
Total	140

The B.A. in Sociology, Social Studies, Secondary Education Emphasis is designed to meet the Idaho state standards in Social Studies, provide students with multiple endorsements, and ensure upper- division coursework in the three disciplines most commonly taught at the secondary level. This multidisciplinary, professional degree entails a 32-hour major emphasis in Sociology, 21 hours in Social Studies and government, and 12 hours in History. Students choosing this emphasis must:

1. complete a minimum of 32 credits in sociology;
2. complete nine credits in U.S. history and three credits of world history for certification requirements;
3. complete a minimum of 21 credits in social studies (other than sociology) including one three-credit course each in geography, psychology, economics and sociology, and six credits of American government and three credits of comparative government/politics;
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. Students must meet all knowledge, skill, and disposition requirements to remain in the program.

The 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.

Sociology, Social Studies, Secondary Education Emphasis Bachelor of Arts

Course Number and Title	Credits
ENGL 101-102 English Composition	6
Area I—see page 45 for list of approved courses	
Area I core course in literature	3
Area I core course in a second field	3
Area I core course in a third field	3
Area I core course in any field	3
Area II	
ECON 202 Principles of Microeconomics	3
ED-CIFS 201 Foundations of Education	3
HIST 111/211 U.S. History	3
POLS 101 American National Government	3
Area III—see page 45 for list of approved courses	
Area III core course in mathematics	3-5
Area III core course in a second field	4
Area III core course in any field	4
*ED-CIFS 301 Teaching Experience I	1
*ED-CIFS 302 Learning and Instruction	4
*ED-CIFS 401 Professional Year—Teaching Experience II	2
*ED-CIFS 405 Teaching Secondary Social Studies	3
*ED-LTCY 444 Content Literacy for Secondary Students	3
*ED-SPED 350 Teaching Students with Exceptional Needs at the Secondary Level	3
*Teaching Experience III/IV	16
NOTE: *You must apply for admission to secondary teacher education in order to enroll in these upper-division education courses. Completion of all requirements for graduation with a secondary education option may require more than 128 credit hours. See "Department of Curriculum, Instruction, and Foundational Studies" for more information.	
EDTECH 202 Educational Technology	3

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Sociology, Social Studies, Secondary Education (continued)	
HIST 112/212 U.S. History U.S. History World History (Any non-U.S. History course) (Must complete 9 credits U.S. History and 3 in World History)	3 3 3
POLS 102 State and Local Government Comparative Government chosen from: POLS 311, 321, 324, 325, 329, 333	3 3
Social Studies Requirement (Social Studies State Certification requires that at least one course be completed in **each** of the following disciplines: Economics, Geography, Psychology)	12
SOC 101 Introduction to Sociology SOC 210 Computer Applications in Social Sciences SOC 301 Sociological Theory I SOC 302 Sociological Theory II SOC 310 Elementary Social Statistics SOC 311 Social Research SOC 498 Sociology Seminar	3 4 3 3 4 3 3
Upper-division Sociology courses	9
Total	135-137

Sociology Minor Certification Endorsement

Course Number and Title	Credits
SOC 101 Introduction to Sociology SOC 210 Computer Applications in Social Science SOC 301 Sociological Theory I SOC 302 Sociological Theory II SOC 311 Social Research	3 4 3 3 3
Upper-division sociology courses	6
Total	22

The sociology minor in Mexican-American studies requires a student to complete 18 hours of core courses in specified Mexican-American studies courses and an additional 6 credits in related topics selected from other disciplines. Students will be introduced 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 Multi-Ethnic Studies SOC 279 Contemporary Mexican Society and Relations with U.S. SOC 333 Mexican-American Life through Sociology, Literature, and Practice SOC 493 Internship (emphasis on Hispanic placements) SOC 499 Seminar in Mexican-American Studies	3 3 3 3 3
Courses chosen from: ANTH 102, ANTH 419, ED-BLESL 212, HIST 251, SPANISH 101, SPANISH 102, SPANISH 201, SPANISH 202. (With departmental approval, new courses and special topics courses with Mexican-American content may be offered in the future.)	6
Total	24

The Multi-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.

To develop a program of study, prospective majors must contact the Department of Sociology.

Multi-Ethnic Studies
Bachelor of Arts

Course Number and Title	Credits
ENGL 101-102 English Composition	6
Area I—see page 45 for list of approved courses	
Area I core course in literature Area I core course in a second field Area I core course in a third field Area I core course in any field	3 3 3 3
Area II—see page 45 for list of approved courses	
Area II core course in history Area II core course in a second field Area II core course in a third field Area II core course in any field	3 3 3 3
Area III—see page 45 for list of approved courses	
Area III core course in mathematics Area III core course in a second field Area III core course in any field	3-5 4 4
Area I or II courses	9
ANTH 209 Issues in Global Diversity	3
HIST 251 History of Multicultural America	3
SOC 230 Introduction to Multi-Ethnic Studies	3
HIST 481 Seminar in American History **OR** SOC 480 Seminar in Multi-Ethnic Studies	3
ANTH/HIST/SOC Internship Ethnic Organization/Ethnic Issues Organization	3
ANTH 418 Ethnographic Methods **OR** HIST 291 Introduction to the Study of History **OR** SOC 311 Social Research Methods	3
Clusters: selected 6 credit hours per cluster, from three of the following clusters:	18-20
African American Studies HIST 366 History of Modern Africa SOC 306 Sociology of African Americans	
Asian Americans/Pacific Peoples SOC 307 The Asian-American Social Experience	
Ethnic Literature ENGL 213 African American Literature ENGL 391 North American Indian Folklore and Literature Courses in French Literature (French/English) Courses in German Literature (German/English) Courses in Hispanic Literature (Spanish/English)	
Gender Studies ENGL 412 Women Writers GENDER 300 Introduction to Women's Studies GENDER 301 Feminist Sociological Theory SOC 371 Social Psychology of Gender SOC 481 Sociology of Gender and Aging	
Mexican American Studies HIST 363 History of Mexico SOC 278 Mexican-American Tradition and Culture SOC 279 Contemporary Mexican Society SOC 333 Mexican-American Life Through Sociology, Literature, and Practice	

—continued—

Multi-Ethnic Studies (continued)	
Modern Language Two courses in a foreign language sequence	
Native American Studies ANTH 307 Indians of North America HIST 341 The Indian in U. S. History	
Upper-division electives chosen from: ANTH 411 Language, Culture, and Society COMM 351 Intercultural Communication HIST 375 Living Religions SOC 305 Race and Cultural Minorities SOCWRK 434 Women & Peoples of Color, Multicultural Issues of Identity and Oppression	6
Upper-division electives to total 40 credits	7-25
Electives to total 128 credits	9-29
Total	128

Multi-Ethnic Studies Minor	
Course Number and Title	**Credits**
ANTH 209 Issues in Global Diversity	3
HIST 251 History of Multicultural America	3
SOC 230 Introduction to Multiethnic Studies	3
Ethnic cluster courses Complete six credit hours in each of two of the cluster courses listed for the Multi-Ethnic Studies major	12-14
Total	21-23

Course Offerings

See page 65 for a definition of the course-numbering system.

SOC—SOCIOLOGY

Lower Division

SOC 101 INTRODUCTION TO SOCIOLOGY (3-0-3)(Area II)(Diversity). 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)(Area II)(Diversity). 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 121 DATING AND MARRIAGE (3-0-3)(S). An informative study and discussion of mate selection, marital relationships and adjustments, parenthood and related subjects, each exploited at length in popular culture but usually ignored as a serious subject of academic examination. The course will emphasize factual knowledge, self understanding, and a sociological perspective on marriage in a changing society.

SOC 201 THEORIES OF SOCIETY (3-0-3)(F). Introduction to the major analytical and interpretive theories of society, history, and human behavior, with an emphasis on the common theoretical concerns of the specific disciplines within the social sciences. PREREQ: SOC 101.

SOC 210 COMPUTER APPLICATIONS IN SOCIAL SCIENCE (3-2-4)(F/S). The objectives of this course are (a) to develop an understanding of computer applications of social science data, and (b) to provide students an experience in the collection and analysis of social data with increased ease via the computer.

SOC 230 INTRODUCTION TO MULTI-ETHNIC STUDIES (3-0-3)(F/S)(Area II)(Diversity). 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 278 MEXICAN-AMERICAN TRADITION AND CULTURE (3-0-3)(S). This class provides an exploration of Mexican-American traditions and culture. It explores the history of the Mexican-American people including their influence on contemporary American language, customs and beliefs.

SOC 279 CONTEMPORARY MEXICAN SOCIETY (3-0-3)(F/S)(Diversity). The course will consist of an examination of the major social institutions in modern Mexico. The course will also focus on the social life and problems facing contemporary Mexico. Students will study the cultural diversity of contemporary Mexico and review Mexican social thinkers who analyze its national character. The complex relationship of Mexico with the United States will be explored including such topics as undocumented workers, drug trafficking, international politics, and transnational corporations.

SOC 290 SOCIAL CONFLICT AND PEACEMAKING (3-0-3)(F). 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.

SOC 302 SOCIOLOGICAL THEORY II (3-0-3)(S). Examination of the development of sociological theory in the twentieth century and of the state of sociological theory today. PREREQ: SOC 301.

SOC 305 RACIAL AND CULTURAL MINORITIES (3-0-3)(S). Comparative study of inter-ethnic relations. Problems and possibilities of genocide, oppression, integration, pluralism and equality. PREREQ: SOC 230 and upper-division standing.

SOC 306 SOCIOLOGY OF AFRICAN AMERICANS (3-0-3)(F/S)(Diversity). 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.

SOC 307 THE ASIAN AMERICAN SOCIAL EXPERIENCE (3-0-3)(F/S)(Alternate years)(Diversity). Examination of the Asian presence and experience in the United States emphasizing current social, economic, political, and cultural issues.

SOC 310 ELEMENTARY SOCIAL STATISTICS (3-2-4)(F/S). The application of measurements to social research data. Basic statistical measures, and techniques for their application, meaning, and use in research. Recommended for majors to be taken in the junior year and followed by SOC 311. PREREQ: SOC 101, high school algebra, and upper-division status.

SOC 311 SOCIAL RESEARCH (3-0-3)(F,S). Introduction to the design of sociological research and the statistical analysis of social data. PREREQ: SOC 101 and SOC 310.

SOC 312 POPULATION DEMOGRAPHY (3-0-3)(F/S)(Diversity). 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.

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 325 SOCIOLOGY OF AGING (3-0-3)(F/S). Analysis of aging as a social process, emphasizing the changing roles as a result of the process, the demands made on and by society because of the way it defines and deals with age, and the problems created for society and for the aged as a result of values, attitudes, and beliefs. PREREQ: SOC 101 and upper-division standing.

SOC 330 SOCIOLOGY OF VIOLENCE (3-0-3)(F)(Alternate years). 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)(Alternate odd years). 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 status.

SOC 332 INTRODUCTION TO MEXICAN-AMERICAN STUDIES. (3-0-3)(F). Social, historical, and political experience of Mexican-Americans. Attention given to history, culture, identity, and contemporary issues of Mexican-Americans. PREREQ: SOC 230.

SOC 333 MEXICAN-AMERICAN LIFE THROUGH SOCIOLOGY, LITERATURE, AND PRACTICE (3-0-3)(F/S)(Diversity). This course provides readings in sociological theory and research concerning Mexican-Americans. The student will have the opportunity to study contemporary Mexican-American literature. The course will also provide a close examination of problems facing Hispanics in Idaho through the use of community scholars who are working to improve Mexican-American/Anglo relations.

SOC 340 SOCIOLOGY OF THE FAMILY (3-0-3)(F/S). An analysis of courtship, marriage, kinship, and family patterns in the United States and selected societies. Theories and facts about the relationships of these patterns to the larger society. PREREQ: SOC 101 and upper-division status.

SOC 351 SOCIAL INSTITUTIONS (3-0-3)(F)(Alternate years). Comparative analysis of the ways societies organize behavior around those values deemed necessary for survival, including family, religion, economy, government, etc. PREREQ: SOC 101 and upper-division standing.

SOC 361 SOCIOLOGY OF WORK (3-0-3)(F/S)(Alternate even years). 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). 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 370 SOCIOLOGY OF LAW (3-0-3)(S)(Alternate years). Law enactment, enforcement, and adjudication are studied as social acts with social consequences. Theories and practices of legal action are reviewed as emerging from and impacting on the social structure. PREREQ: SOC 101 and upper-division standing.

SOC 371 (GENDER 371) THE SOCIAL PSYCHOLOGY OF GENDER (3-0-3)(F/S)(Alternate years)(Diversity). 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) CONFLICT MANAGEMENT (3-0-3)(F). 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 SOC or COMM credit, but not both. PREREQ: COMM 101 or SOC 101, 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 towards 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)(F/S)(Alternate years). Social science perspectives on religion. Religion viewed as human activity influencing and being influenced by social organization and social conditions.

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 field work 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)(S). Social causes of juvenile delinquency. Solutions that are discussed arise from theories which suggest changing society more than the individual delinquent. Positive and negative activities of the juvenile justice system are also reviewed. PREREQ: SOC 101 and upper-division standing.

SOC 417 CRIMINOLOGY (3-0-3)(F). 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)(Alternate years). 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/S)(Diversity). 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.

SOC 431 (PSYC 431) SOCIAL PSYCHOLOGY (3-0-3)(S). The primary focus is the individual; the unit of analysis, the interpersonal behavior event. A study of individual motives, emotions, attitudes, and cognitions with reference to interactions with other human beings. May be taken for either psychology or sociology credit, but not for both. SOC 101 and a course in statistics or research design are strongly recommended. PREREQ: PSYC 101, SOC 101, and upper-division standing.

SOC 435 DRUGS IN SOCIETAL CONTEXT (3-0-3)(F/S). 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.

SOC 440 ENVIRONMENTAL SOCIOLOGY (3-0-3)(F/S). Sociological approach to the study of environmentalism, social implications of environmental policy, environmental conflicts, and the distributive justice nature of environmental issues.

SOC 471 (GENDER 301) FEMINIST THEORY (3-0-3)(F/S)(Diversity). 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 480 SEMINAR IN MULTI-ETHNIC STUDIES (3-0-3)(F/S)(Alternate years). A capstone course for majors. Through advanced interdisciplinary reading from the social sciences as they pertain to ethnic issues in the United States, students will gain an appreciation of other cultures, examine complex ethnic issues and explore strategies to reduce interethnic tensions.

SOC 481 SOCIOLOGY OF GENDER AND AGING (3-0-3)(F/S). A sociological examination of the myths and stereotypes that impact men and women as they age. The course will explore research efforts focused on aging in a gendered society and examine the myths and stereotypes; seek to discover the source of cultural beliefs, social structures of gendered identities, and how gender stratification creates disadvantage for older men and women. PREREQ: SOC 101 and upper-division standing.

SOC 487 (POLS 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 SOC or POLS credit, but not for both. PREREQ: senior standing, PERM/INST.

SOC 490 SENIOR PRACTICUM (V-V-3)(F/S). A capstone course where senior sociology majors complete experiential learning at sites selected in consultation with advisor and/or internship coordinator. Students meet weekly with internship coordinator or designee to discuss academic relatedness and progress of experiential learning. PREREQ: Senior sociology major with a minimum cumulative GPA of 2.5.

SOC 493 INTERNSHIP (V-V-V)(F/S). 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 SOCIOLOGY SEMINAR (3-0-3)(S). Intensive study of selected problems in sociology. PREREQ: Senior standing in sociology major.

SOC 499 SENIOR SEMINAR IN MEXICAN-AMERICAN STUDIES (3-0-3)(F/S). As the culminating course for the Mexican-American Studies minor students will examine advanced theoretical and research issues concerning Mexican-Americans in a seminar setting. One objective will be for students to utilize their previous course work in the minor to enable them to read specialized studies in specific topics and case studies such as the dropout problem facing Mexican-American students; the role of fundamentalist religions in the Mexican-American community; and employment patterns of Mexican-Americans. The primary objective of the readings and class discussions will be to integrate the diverse course materials from the previous required classes in this minor.

SOCSCI—SOCIAL SCIENCE

Upper Division

SOCSCI 498 SEMINAR: SOCIAL SCIENCES AND PUBLIC AFFAIRS (3-0-3)(S). An intensive seminar focusing on selected topics from theory and research, which bear on the contributions of the social sciences to public affairs. Completion of a research methods course strongly recommended.

Spanish—see Department of Modern Languages and Literatures

Department of Special Education and Early Childhood Studies

College of Education

Education Building, Room 218 Telephone: 208 426-2814
http://education.boisestate.edu/ Fax: 208 426-4006

Chair and Associate Professor: Keith Allred. *Professor:* Hourcade. *Assistant Professor:* Harris, Johnson, Mori, Humphrey, Pool, Wood.

Degrees Offered

- A.A., B.A. in Early Childhood Studies
- A.A., B.A. in Special Education
- M.A. in Education, with emphasis in Early Childhood Studies. (See the *BSU Graduate Catalog*.)
- M.A. in Special Education (See the *BSU Graduate Catalog*)
- M.Ed. in Early Childhood Studies (See the *BSU Graduate Catalog*.)
- M.Ed. in Special Education (See the *BSU Graduate Catalog*)
- Minor/Generalist Endorsement on Standard Exceptional Child Certificate (for Elementary or Secondary Education Majors)
- Pre-endorsement in Special Education/Certificate in Inclusive Practices

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.

Special Education

The Special Education program at Boise State prepares teachers at the pre-service and in-service levels to more effectively serve all students K-12, with special emphasis on those students with disabilities. To this end the Special Education program has three specific functions.

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 the general education classrooms of today. To do this, the Special Education faculty offer courses at both the undergraduate and graduate levels that provide an overview of exceptionality and special education programs to all early childhood studies, elementary, and secondary education majors.

The second function is to offer structured sequences of coursework in Special Education to Elementary Education majors who wish to gain additional knowledge, skills, and expertise in Special Education. This coursework culminates in both (a) the Pre-Endorsement in Special Education for Elementary Education majors, and (b) the Certificate in Inclusive Practices.

The third and final function is to prepare highly qualified special educators who will move into specialized instructional roles in public school settings. At the completion of their special education certification programs, these students will be certified to teach K-12 students with disabilities. They will be prepared to provide services to both students with disabilities and to their families, to facilitate their students' participation in inclusive public school settings, and to collaborate with general educators and other support staff in meeting the needs of all learners. In order to be recommended for special education certification, candidates must satisfy appropriate Comprehensive Literacy requirements and pass appropriate PRAXIS II exams.

Admission Requirements

All students preparing to be recommended for either the Early Childhood Special Education Blended certification or the exceptional Child Certificate, endorsed K-12 Generalist must meet the following admission requirements:

- A minimum cumulative grade point average of 2.5.
- A minimum grade point average of 2.75 in all education classes.
- A passing score on the Educational Technology Assessment (ETA).
- A passing scores on the PRAXIS I Pre-professional Skills Test (PPST) in mathematics and writing. For information please access the PRAXIS web site at http://www.ets.org. No other exams will be accepted in lieu of the PRAXIS. Required tests can be taken no more than three times.
- Go to the Office of Teacher Education web site for specific information regarding the application process for Teacher Education and to the Professional Year 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 and elementary education, is designed to prepare highly qualified special educators with maximum professional flexibility in working in both general and special education settings. Option 2 is designed for educators anticipating careers primarily in special education settings, and is especially recommended for individuals whose main interest is secondary special education. Either option results in the K-12 Idaho Generalist Endorsement on the Standard Exceptional Child Certificate. Option 2 results in an additional endorsement in one or more content areas.

Special Education
Bachelor of Arts
(Option 1: Dual Special Education-Elementary Education certification)

Course Number and Title	Credits
ENGL 101-102 English Composition NOTE: Students not required to take ENGL 101 must complete an additional 3 credits of English. For certification purposes, special education majors must complete a total of 12 hours of English, including both composition and literature.	6
Area I—see page 45 for list of approved courses	
Two (2) Area I core courses in English	6
Area I core course in art or music	3
ASL 101 American Sign Language I **OR** ASL 102 American Sign Language II	4
Area II—see page 45 for list of approved courses	
HIST 111/211 or 112/212 United States History	3
PSYC 101 General Psychology	3
Area II core course in Geography	3
Area II core cultural diversity course in Social Studies (ANTH, ECON, GEOG, HIST, POLS, or SOC)	3
Area III—see page 45 for list of approved courses	
MATH 257 Geometry and Probability for Teachers	4
Area III core course in a second field	4
Area III core course in any field NOTE: Special education majors must have courses in at least two of the following disciplines: biological science, earth science (Geoscience), or physical science (Chemistry or Physics)	4
ED-BLESL 200 Cultural Diversity in the School	3
ED-CIFS 201 Foundations of Education	3
ED-CIFS 203 Child and Educational Psychology	3
ED-CIFS 330 Elementary Social Studies Curriculum and Methods	3
ED-CIFS 331 Elementary Mathematics Curriculum and Methods	3
ED-CIFS 332 Elementary Classroom Management Skills	3
ED-CIFS 333 Elementary Science Curriculum and Methods	3
ED-CIFS 459 Professional Year I	2
ED-CIFS 461 Professional Year II: Teaching Experience in Elementary Education	7
ED-LTCY 340 Idaho Comprehensive Literacy Course	4
ED-LTCY 343 Reading Diagnosis and Intervention	3
ED-LTCY 346 Children's Literature	3
ED-LTCY 364 Field Experience in Literacy	1
ED-LTCY 440 Content Area Language Arts: K-8	3
ED-SPED 250 Exceptionality in the Schools	3
ED-SPED 251 Collaboration in the School and Community	2
ED-SPED 252 Assistive Technology	1
ED-SPED 351 Access to the General Education Curriculum	1
ED-SPED 352 Differentiated Instruction for Academic Skills	2
ED-SPED 353 Differentiated Instruction in the Content Areas	2
ED-SPED 354 Assessment for Differentiated Instruction	2
ED-SPED 355 Positive Behavior Intervention	2
ED-SPED 356 Instruction for Students with Severe Disabilities	2
ED-SPED 357 Formal Assessment for Special Education	2
ED-SPED 365 Field Experience in Special Education	1
ED-SPED 451 Special Education and the Law	2
ED-SPED 452 Instruction for Adolescents with Disabilities	2
ED-SPED 459 Professional Year I: In Special Education	2
ED-SPED 467 Professional Year III: Teaching Experience in Special Education Generalist	7
EDTECH 202 Educational Technology – Classroom Applications	3
KINES 305 Adapted Physical Education	3
MATH 157 Structure of Arithmetic for Teachers	4
Total	130

Special Education
Bachelor of Arts
(Option 2: Special Education certification w/subject area endorsement)

Course Number and Title	Credits
ENGL 101-102 English Composition NOTE: Students not required to take ENGL 101 must complete an additional 3 credits of English. For certification purposes, special education majors must complete a total of 12 hours of English, including both composition and literature.	6
Area I—see page 45 for list of approved courses	
Two (2) Area I core courses in English	6
Area I core course in art or music	3
ASL 101 American Sign Language I **OR** ASL 102 American Sign Language II	4
Area II—see page 45 for list of approved courses	
HIST 111/211 or 112/212 United States History	3
PSYC 101 General Psychology	3
Area II core course in Geography	3
Area II core cultural diversity course in Social Studies (ANTH, ECON, GEOG, HIST, POLS, or SOC)	3
Area III—see page 45 for list of approved courses	
MATH 257 Geometry and Probability for Teachers	4
Area III core course in a second field	4
Area III core course in any field NOTE: Special education majors must have courses in at least two of the following disciplines: biological science, earth science (Geoscience), or physical science (Chemistry or Physics)	4
ED-BLESL 200 Cultural Diversity in the School	3
ED-CIFS 201 Foundations of Education	3
ED-CIFS 301 Teaching Experience I	1
ED-CIFS 302 Learning and Instruction	4
ED-LTCY 340 Idaho Comprehensive Literacy Course	4
ED-LTCY 444 Content Literacy for Secondary Students	3
ED-SPED 251 Collaboration in the School and Community	2
ED-SPED 252 Assistive Technology	1
ED-SPED 350 Teaching Students with Exceptional Needs at the Secondary Level	3
ED-SPED 351 Access to the General Education Curriculum	1
ED-SPED 352 Differentiated Instruction for Academic Skills	2
ED-SPED 353 Differentiated Instruction in the Content Areas	2
ED-SPED 354 Assessment for Differentiated Instruction	2
ED-SPED 355 Positive Behavior Intervention	2
ED-SPED 356 Instruction for Students with Severe Disabilities	2
ED-SPED 357 Formal Assessment for Special Education	2
ED-SPED 365 Field Experience in Special Education	1
ED-SPED 451 Special Education and the Law	2
ED-SPED 452 Instruction for Adolescents with Disabilities	2
ED-SPED 456 Contemporary Practices in Severe Disabilities **OR** approved equivalent elective	2
ED-SPED 467 Professional Year III: Teaching Experience in Special Education Generalist	7
ED-SPED 468 Professional Year III: Teaching Experience in Special Education Severe Disabilities	7
EDTECH 202 Educational Technology – Classroom Applications	3
KINES 305 Adapted Physical Education	3
MATH 157 Structure of Arithmetic for Teachers	4
One of the following: Reading endorsement **OR** Content area minor certification endorsement in Biology, English, Earth Science, or Mathematics (See specific content area in catalog for details)	20-25
Total	131-136

The Associate of Arts in Special Education degree program enables graduates to meet the "Highly Qualified" standard required of paraeducators providing services to students with disabilities in inclusive general education classrooms. In addition, the program is designed to merge into Boise State's special education B. A. degree programs that culminate in the Idaho Generalist Endorsement on the Standard Exceptional Child Certificate.

Special Education Associate of Arts

Course Number and Title	Credits
ENGL 101-102 English Composition NOTE: Students not required to take ENGL 101 must complete an additional 3 credits of English.	6
Area I—see page 45 for list of approved courses	
Two (2) Area I core courses in English	6
Area I core course in art or music	3
ASL 101 American Sign Language I **OR** ASL 102 American Sign Language II	4
Area II—see page 45 for list of approved courses	
HIST 111/211 or 112/212 United States History	3
PSYC 101 General Psychology	3
Area II core course in Geography	3
Area II core cultural diversity course in Social Studies (ANTH, ECON, GEOG, HIST, POLS, or SOC)	3
Area III—see page 45 for list of approved courses	
MATH 257 Geometry and Probability for Teachers	4
Area III core course in a second field	4
Area III core course in any field	4
ED-CIFS 203 Child and Educational Psychology	3
ED-LTCY 340 Idaho Comprehensive Literacy Course	4
ED-SPED 250 Exceptionality in the Schools	3
ED-SPED 252 Assistive Technology	1
ED-SPED 355 Positive Behavior Intervention	2
ED-SPED 356 Instruction for Students with Severe Disabilities	2
EDTECH 202 Educational Technology – Classroom Applications	3
MATH 157 Structure of Arithmetic for Teachers	4
Total	65

Pre-Endorsement

Pre-Endorsement in Special Education (Certificate in Inclusive Practices) Students majoring in Elementary Education who pursue that program's 13 hour pre-endorsement area in Special Education receive additional skills in curricular and instructional accommodations for successful inclusive classrooms. This professional preparation assists teachers in making school programs more accessible for all students, including those who have disabilities. Completion of the 13 hour Special Education Pre-Endorsement program also results in the awarding of a Certificate in Inclusive Practices.

Special Education Pre-Endorsement and Certificate in Inclusive Practices

Course Number and Title	Credits
ED-SPED 251 Collaboration in the School and Community	2
ED-SPED 252 Assistive Technology	1
ED-SPED 351 Access to the General Education Curriculum	1
ED-SPED 352 Differentiated Instruction for Academic Skills	2
ED-SPED 353 Differentiated Instruction in the Content Areas	2
ED-SPED 354 Assessment for Differentiated Instruction	2
ED-SPED 355 Positive Behavior Intervention	2
ED-SPED 365 Field Experience in Special Education	1
Total	13

Special Education Minor (Generalist K-12 Endorsement) for Early Childhood Studies, Elementary, or Secondary Education Majors The Special Education Minor and Generalist K-12 Endorsement program builds upon the Pre-Endorsement/Certificate of Inclusive Practices sequence of courses. The full Endorsement program emphasizes provision of educational services for students who have disabilities in inclusive school settings, and results in both the Generalist Endorsement on the Idaho Standard Exceptional Child Certificate and an approved university minor certification endorsement. This endorsement is valid from kindergarten through 12th grade, and can be pursued by students majoring in early childhood studies, elementary, or secondary education.

Special Education Minor and Generalist K-12 Endorsement

Course Number and Title	Credits
Completion of pre-endorsement area in special education	13
ED-LTCY 340 Idaho Comprehensive Literacy Course	4
ED-SPED 356 Instruction for Students with Severe Disabilities	2
ED-SPED 357 Formal Assessment for Special Education	2
ED-SPED 451 Special Education and the Law	2
ED-SPED 452 Instruction for Adolescents with Disabilities	2
ED-SPED 467 Professional Year III: Teaching Experience in Special Education Generalist	7
Early Childhood Studies/Elementary Education	
In addition to the above courses, the Idaho Special Education Generalist K-12 Endorsement also requires: ED-SPED 250 Exceptionality in the Schools	3
Total	35
NOTE: This course or its equivalent is already required in the BSU Elementary Education B.A. program.	
Secondary Education	
In addition to the above courses, the Idaho Special Education Generalist K-12 Endorsement also requires: ED-CIFS 301 Teaching Experience I	1
ED-SPED 350 Teaching Students with Exceptional Needs at the Secondary Level	3
Total	36
NOTE: ED-CIFS 301 and ED-SPED 350 are already required in the BSU Secondary Education B.A. program.	

Post-Baccalaureate Students Students seeking to become special educators have several options, including a second bachelor's degree or graduate study. Students who wish to pursue a second bachelor's degree typically select the Bachelor of Arts Option 2 (Special Education certification with subject area endorsement) as a major. Students who wish to pursue a graduate degree concurrently with certification are encouraged to apply for the M.Ed. in Special Education (see the *BSU Graduate Catalog*). Prior to beginning coursework, all students are strongly encouraged to meet with a program advisor, supply unofficial transcripts and other pertinent documents, and develop an appropriate course of study. Students must apply for admission at the outset, but may be permitted to enroll in course work during the first semester while working to satisfy admission requirements. Students will not be permitted to enroll in upper-division certification courses thereafter without being admitted into Teacher Education.

Course Offerings

See page 65 for a definition of the course-numbering system.

ED-SPED—SPECIAL EDUCATION

Lower Division

ED-SPED 250 EXCEPTIONALITY IN THE SCHOOLS (2-3-3)(F/S)(Diversity). 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-SPED 251 COLLABORATION IN SCHOOL AND COMMUNITY (2-0-2)(F). Benefits of and barriers to implementing collaborative programs. Special emphasis on the most common collaborative models in contemporary practice, and on those interpersonal skills required in effective collaboration.

ED-SPED 252 ASSISTIVE TECHNOLOGY (1-0-1)(S). Assessment of student needs in assistive technology (AT), including Augmentative and Alternative Communication (AAC); selection and development of AT services and devices; and identification of resources in AT. PREREQ: ED-SPED 250, ED-SPED 350, or ED-SPED 550. PRE/COREQ: EDTECH 202 or documentation of passing the Idaho Technology Competency Exam.

Upper Division

ED-SPED 350 TEACHING STUDENTS WITH EXCEPTIONAL NEEDS AT THE SECONDARY LEVEL (3-0-3)(F,S)(Diversity). 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 and ED-CIFS 302.

ED-SPED 351 ACCESS TO THE GENERAL EDUCATION CURRICULUM (1-0-1)(F/S). Curricular and instructional design, including Universal Design for Learning principles, to facilitate access to the general education curriculum for students with disabilities. PREREQ: Admission to Teacher Education and ED-SPED 250, ED-SPED 350, or ED-SPED 550.

ED-SPED 352 DIFFERENTIATED INSTRUCTION FOR ACADEMIC SKILLS (2-0-2)(F). Instructional design features to respond to diverse student needs found in inclusive K-8 classrooms. Emphasis on skills needed for academic success in language arts and mathematics. PREREQ: Admission to Teacher Education. PRE/COREQ: ED-SPED 351.

ED-SPED 353 DIFFERENTIATED INSTRUCTION IN THE CONTENT AREAS (2-0-2)(S). Instructional design procedures to respond to diverse student needs found in inclusive K-8 classrooms. Emphasis on concepts and principles in social studies and science. PREREQ: Admission to Teacher Education. PRE/COREQ: ED-SPED 351.

ED-SPED 354 ASSESSMENT FOR DIFFERENTIATED INSTRUCTION (2-0-2)(F). Formal and informal assessment of diverse learners, including strengths and limitations of various assessments, appropriate selection of assessment tools, and collection and utilization of assessment data for instructional decision-making. PREREQ: Admission to Teacher Education. PRE/COREQ: ED-SPED 351.

ED-SPED 355 POSITIVE BEHAVIOR INTERVENTION (2-0-2)(S). Functional behavioral assessment and positive behavior intervention strategies, with special attention to behavioral issues with students who have disabilities. PREREQ: Admission to Teacher Education.

ED-SPED 356 INSTRUCTION FOR STUDENTS WITH SEVERE DISABILITIES (2-0-2)(F). Curriculum development and instructional strategies for students with severe disabilities in inclusive and specialized settings. PREREQ: Admission to Teacher Education.

ED-SPED 357 FORMAL ASSESSMENT FOR SPECIAL EDUCATION (2-0-2)(S). Administration, interpretation, and utilization of individual and group psychological and educational assessments in special education, with special attention to issues of eligibility and program development. PREREQ: Admission to Teacher Education and ED-SPED 351.

ED-SPED 365 FIELD EXPERIENCE IN SPECIAL EDUCATION (0-3-1)(F/S). A school-based inclusive field placement with students who have disabilities, with structured assignments in professional collaboration, assessment, curriculum and instruction, assistive technology, and positive behavior intervention. (Pass/Fail.) PRE/COREQ: ED-SPED 251, ED-SPED 252, ED-SPED 351, ED-SPED 352, ED-SPED 353, ED-SPED 354, and ED-SPED 355.

ED-SPED 451 SPECIAL EDUCATION AND THE LAW (2-0-2)(F). Federal and state laws and regulations impacting the delivery of services to individuals with disabilities, with primary emphasis on the Individuals with Disabilities Education Act and the development of Individualized Education Programs. PREREQ: Admission to Teacher Education and ED-SPED 351.

ED-SPED 452 INSTRUCTION FOR ADOLESCENTS WITH DISABILITIES (2-0-2)(S). Curriculum development and instructional strategies for providing successful access to secondary general education curricula to adolescents with disabilities. Instructional adaptations and strategies for effective transitions to community services. PREREQ: Admission to Teacher Education. PRE/COREQ: ED-SPED 351.

ED-SPED 456 CONTEMPORARY PRACTICES IN SEVERE DISABILITIES (2-0-2)(S)(Even years). Advanced studies in the field of severe disabilities, including definitional issues, etiology, multiple and physical disabilities, autism and related disorders, behavioral supports, health issues, vocational programming, family, residential options, and ethical issues relevant to individuals with severe disabilities. PREREQ: Admission to Teacher Education; ED-SPED 356.

ED-SPED 459 PROFESSIONAL YEAR I: IN SPECIAL EDUCATION (0-7-2)(F/S). Special education classroom placement with completion of a minimum of 100 hours in K-8 classrooms with students with disabilities, and participation in seminars with department faculty. Instructional planning, progress monitoring, and school-wide academic and behavioral interventions. (Pass/Fail). PREREQ: Admission to the Professional Year. COREQ: ED-CIFS 459.

ED-SPED 467 PROFESSIONAL YEAR III: TEACHING EXPERIENCE IN SPECIAL EDUCATION GENERALIST (0-21-7)(F/S). The concluding teaching experience in the Professional Year for students pursuing an endorsement in Special Education, with a full-time teaching experience in a special education classroom. Students will complete a teaching experience consistent with the calendars of the assigned partnership schools. (Pass/Fail.) PREREQ: Completion of all Special Education Generalist requirements.

ED-SPED 468 PROFESSIONAL YEAR III: TEACHING EXPERIENCE IN SPECIAL EDUCATION SEVERE DISABILITIES (0-21-7)(F/S). The concluding teaching experience in the Professional Year for students pursuing B.A. Option 2: Special Education Certification with Subject Area Endorsement, with a full-time teaching experience in a special education severe disabilities classroom. Students will complete a teaching experience consistent with the calendars of the assigned partnership schools. (Pass/Fail). PREREQ: PERM/INST.

Early Childhood Studies

The Early Childhood Studies program is committed to the education of professionals to work with all young children and their families. To accomplish this mission, the program blends two fields of study, Early Childhood Education and Early Childhood Special Education. The goal of the Early Childhood Studies program is to develop professionals who are knowledgeable in the science of child development and learning, reflective in their practice, and unbiased in their approach to work with all young children and their families. The vision of the Early Childhood Studies program is to aid in the development of inclusive programs for all young children, in schools and in the community.

The B.A. in Early Childhood Studies assists students in developing the knowledge, skills, and dispositions essential for success in working with all children, birth to age eight years, and their families. Undergraduate B.A. and graduate students who successfully complete the program for the Blended Early Childhood Education/Early Childhood Special Education Certification can apply for teacher certification.

Post-baccalaureate students seeking the Blended Certificate have several options, including a second bachelor's degree or graduate study. Prior to beginning coursework, all students are strongly encouraged to meet with a program advisor, supply unofficial transcripts and other pertinent documents, and develop an appropriate course of study. Student must apply for admission at the outset, but may be permitted to enroll in course work during the first semester while working to satisfy admission requirements. Students will not be permitted to enroll in upper-division certification courses thereafter without being admitted into Teacher Education. Completion of a Master's degree in Early Childhood Studies does not fulfill the requirements for a Blended Certificate.

Admission Requirements

All students preparing to be recommended for either the Early Childhood Special Education Blended certification or the exceptional Child Certificate, endorsed K-12 Generalist must meet the following admission requirements:

- A minimum cumulative grade point average of 2.5.
- A minimum grade point average of 2.75 in all education classes.
- A passing score on the Educational Technology Assessment (ETA).
- A passing scores on the PRAXIS I Pre-professional Skills Test (PPST) in mathematics and writing. For information please access the PRAXIS web site at http://www.ets.org. No other exams will be accepted in lieu of the PRAXIS. Required tests can be taken no more than three times.
- Go to the Office of Teacher Education web site for specific information regarding the application process for Teacher Education and to the Professional Year http://education.boisestate.edu/teachered

Degree Requirements

Early Childhood Studies
Bachelor of Arts

Course Number and Title	Credits
ENGL 101-102 English Composition NOTE: Students not required to take ENGL 101 must complete an additional 3 credits of English. For certification purposes, ECS majors must complete a total of 12 hours of English, including both composition and literature.	6
Area I—see page 45 for list of approved courses	
ENGL 277 or 278 Survey of American Literature	3
Area I core course in a second field in art (ART 100; ARTHIST 101, 102)	3
Area I core course in third field in music (MUS 100; MUS 101)	3
Area I core course in literature Recommended: ENGL 215; ENGL 257/258; ENGL 267; ENGL 268	3
Area II—see page 45 for list of approved courses	
HIST 111/211, 112/212 United States History	3
PSYC 101 General Psychology	3
SOC 101 Introduction to Sociology	3
Area II core course in cultural diversity Chosen from ANTH 102; GEOG 102; HIST 121, SOC 230	3

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Early Childhood Studies (continued)	
Area III—see page 45 for list of approved courses	
MATH 257 Geometry and Probability for Teachers	4
Area III core course in a second field	4
Area III core course in any field NOTE: ECE/ECSE majors must have courses in at least two of the following disciplines: biological science, earth science, or physical science.	4
ART 321 Elementary School Art Methods **OR** MUS 374 Music Methods for Elementary School Teacher	3
ED-BLESL 200 Cultural Diversity in the School	3
ED-CIFS 201 Foundations of Education	3
ED-ECS 221 Foundations of Professional Practice: ECE/ECSE	3
ED-ECS 222 Family and Community Relations: ECE/ECSE	2
ED-ECS 320 Language Development, Assessment, and Intervention: ECE/ECSE	3
ED-ECS 322 Kindergarten Programs: ECE/ECSE	3
ED-ECS 323 Assessment and Program Planning K-3: ECE/ECSE	2
ED-ECS 326 Natural Environments, Birth to Three: ECE/ECSE	3
ED-ECS 327 Assessment and Program Planning, Birth to Five: ECE/ECSE	2
ED-ECS 328 Preschool Programs: ECE/ECSE	3
ED-ECS 329 Child Behavior, Guidance, and Intervention: ECE/ECSE	3
ED-ECS 426 Social Science, Science, and Math Curricula and Instruction Primary Grades	3
ED-ECS 462 Teaching Experience in Primary Grades: ECE/ECSE	7
ED-ECS 463 Teaching Experience in Preschool Programs: ECE/ECSE	7
ED-ECS 464 Teaching Experience in Natural Environments, Birth to Three: ECE/ECSE	7
ED-LTCY 340 Idaho Comprehensive Literacy Course	4
ED-LTCY 346 Children's Literature	3
ED-LTCY 441 Content Area Language Arts K-3 ECE/ECSE	2
ED-SPED 250 Exceptionality in the Schools	3
ED-SPED 252 Assistive Technology	1
EDTECH 202 Educational Technology – Classroom Applications	3
KINES 355 Elementary School Health & PE Curriculum & Instruction	3
MATH 157 Structure of Arithmetic for Teachers	4
PSYC 309 Child Development	3
Upper-division cultural diversity Chosen from ENGL 391; SOC 305; SOC 351	3
Total	128

The A.A. degree requires 65 credits and provides early childhood educators an opportunity to work in settings such as Head Start and private preschool settings. The credits can be applied toward a B.A. in this program.

Early Childhood Studies Associate of Arts

Course Number and Title	Credits
ENGL 101-102 English Composition NOTE: Students not required to take ENGL 101 must complete an additional 3 credits of English. For certification purposes, ECS majors must complete a total of 12 hours of English, including both composition and literature.	6
Area I—see page 45 for list of approved courses	
ENGL 277 or ENGL 278 Survey of American Literature	3
Area I core course in a second field in art (ART 100, 101, 102, or ART 105)	3
Area I core course in a third field in music (MUS 100 or 101)	3
Area I core course in literature (ENGL 215, 257/258, 267/268)	3
Area II—see page 45 for list of approved courses	
HIST 111/211, 112/212 United States History	3
PSYC 101 General Psychology	3
POLS 101 or SOC 101 Government or Sociology	3
Area II core course in cultural diversity Chosen from ANTH 102; GEOG 102; HIST 121, SOC 230	3
Area III—see page 45 for list of approved courses	
MATH 257 Geometry and Probability for Teachers	4
Area III core course in a second field	4
Area III core course in any field Must have 2 of 3 fields: biological, earth science, or physical science	4
ED-CIFS 201 Foundations of Education	3
ED-ECS 221 Foundations of Professional Practices: ECE/ECSE	3
ED-ECS 222 Family and Community Relations: ECE/ECSE	2
ED-ECS 320 Language Development, Assessment, and Intervention: ECE/ECSE	3
ED-ECS 322 Kindergarten Programs: ECE/ECSE	3
ED-ECS 323 Assessment and Program Planning K-3: ECE/ECSE	2
EDTECH 202 Educational Technology	3
MATH 157 Structure of Arithmetic for Teachers	4
Total	65

Pre-Endorsement

The Early Childhood Studies program offers a pre-endorsement of 13 credits for Elementary Education majors as a part of their pre-endorsement requirement. Early Childhood Studies Pre-Endorsement prepares individuals to work effectively as aides in a classroom for young children who are typically developing and those with delays and disabilities.

Early Childhood Studies Pre-Endorsement

Course Number and Title	Credits
ED-ECS 221 Foundations of Professional Practices: ECE/ECSE	3
ED-ECS 222 Family and Community Relations: ECE/ECSE	2
ED-ECS 320 Language Development, Assessment, and Intervention: ECE/ECSE	3
ED-ECS 322 Kindergarten Programs: ECE/ECSE	3
ED-ECS 323 Assessment and Program Planning K-3: ECE/ECSE	2
Total	13

Course Offerings

See page 65 for a definition of the course-numbering system.

ED-ECS—EARLY CHILDHOOD STUDIES

Lower Division

ED-ECS 221 FOUNDATIONS OF PROFESSIONAL PRACTICES: ECE/ECSE (2-3-3)(F/S). 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 field work required.

ED-ECS 222 FAMILY AND COMMUNITY RELATIONS: ECE/ECSE (2-0-2)(F/S). Partnering with families of young children, both typically and atypically developing. Family systems theory, roles and functions of special service colleagues and community resources.

Upper Division

ED-ECS 320 LANGUAGE DEVELOPMENT, ASSESSMENT, AND INTERVENTION: ECE/ECSE (3-0-3)(F/S). Typical and atypical language development of young children, from birth through grade three. PREREQ: Admission to Teacher Education.

ED-ECS 322 KINDERGARTEN PROGRAMS: ECE/ECSE(2-3-3)(F). Kindergarten models, curriculum, and teaching strategies. Literacy and math materials will be designed and evaluated. Weekly classroom fieldwork required. PREREQ: Admission to Teacher Education.

ED-ECS 323 ASSESSMENT AND PROGRAM PLANNING K-3 (2-0-2)(F). Formal and informal assessment with emphasis on program planning. Procedures for screening and eligibility determination and development of individualized Education Plans. PREREQ: Admission to Teacher Education.

ED-ECS 326 NATURAL ENVIRONMENTS, BIRTH TO THREE: ECE/ECSE (3-0-3)(F/S). Development of infants, both typically developing and those with delays and disabilities. Focus on attachment processes, learning in naturalistic environments, and communication with families. PREREQ: Admission to Teacher Education or PERM/INST.

ED-ECS 327 ASSESSMENT AND PROGRAM PLANNING, BIRTH TO FIVE: ECE/ECSE (2-0-2)(S). Informal and formal assessment of infants and preschool age children, both typically and atypically developing with emphasis on program planning, intervention and communication with families. PREREQ: Admission to Teacher Education or PERM/INST.

ED-ECS 328 PRESCHOOL PROGRAMS: ECE/ECSE (3-0-3)(F). Developmentally appropriate curriculum and materials for preschool age children, both typically developing and those with delays and disabilities. PREREQ: Admission to Teacher Education or PERM/INST.

ED-ECS 329 CHILD BEHAVIOR, GUIDANCE, AND INTERVENTION (3-0-3)(S). Development and guidance of preschool age children. Emphasis on environment and strategies, including functional behavior analysis, that assist young children in developing social skills. PREREQ: Admission to Teacher Education or PERM/INST.

ED-ECS 426 SOCIAL STUDIES, SCIENCE, AND MATH CURRICULA AND INSTRUCTION, PRIMARY GRADES (3-0-3)(S). Primary grade social studies, science, and math curricula, philosophy, and goals. Developmentally appropriate content and materials, with integration across disciplines emphasized. PREREQ: Admission to Professional Year. COREQ: ED-ECS 462.

ED-ECS 462 TEACHING EXPERIENCE IN PRIMARY GRADES: ECE/ECSE (0-21-7)(F/S). Primary grade teaching experience for students pursuing the ECE/ECSE blended certificate. Teaching responsibility in inclusive and pullout classrooms for children with and without delays and disabilities. Seminars are conducted. Students will complete a full-time teaching experience consistent with the calendars of the assigned partnership programs. (Pass/Fail.) PREREQ: Admission to Professional Year. COREQ: ED-ECS 426.

ED-ECS 463 TEACHING EXPERIENCE IN PRESCHOOL PROGRAMS: ECE/ECSE (0-21-7)(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. Seminars are conducted. Students will complete a full-time teaching experience consistent with the calendars of the assigned partnership programs. (Pass/Fail.) PREREQ: Admission to Professional Year. COREQ: ED-ECS 328.

ED-ECS 464 TEACHING EXPERIENCE IN NATURAL ENVIRONMENTS, BIRTH TO THREE: ECE/ECSE (0-21-7)(F/S). Infant/toddler program experience for students pursuing the ECE/ECSE blended certificate. Responsibilities in a natural environment, center or home, for infants and toddlers with and without disabilities including family contact. Seminars are conducted. Students will complete a full-time teaching experience consistent with the calendars of the assigned partnership program. Student must obtain a city childcare license. (Pass/Fail.) PREREQ: Admission to Professional Year, ED-ECS 326 and ED-ECS 327.

Supply Chain Management—see Department of Information Technology and Supply Chain Management

Department of Theatre Arts

College of Arts and Sciences

Morrison Center, Room C-100 Telephone 208 426-3957
http://www.theatre.boisestate.edu

Chair and Professor: Richard Klautsch. *Professors:* Atlakson, Hoste. *Associate Professors:* Baltzell, Durham, Hansen, Reinhart. *Special Lecturer:* A. Klautsch.

Degrees Offered

- B.A. and Minor in Theatre Arts
- B.A. in Theatre Arts, Secondary Education
- Dance Minor

Department Statement

The Department of Theatre Arts strives to serve the College of Arts and Sciences, Boise State University, the City of Boise, and the State of Idaho as the primary institution for learning about and practicing theatre arts within an active arts community and a modern urban university.

- It provides a variety of classes for general undergraduate education and for specialized theatre study within a liberal arts environment.
- It provides a season of performances that educates students and offers cultural enrichment to the community at large.
- It interacts with the Treasure Valley arts community to raise general arts awareness and it supports the growth of professional theatre for the mutual benefit of the profession and the department.

Degree Requirements

Theatre Arts
Bachelor of Arts

Course Number and Title	Credits
ENGL 101-102 English Composition	6
Area I—see page 45 for list of approved courses	
*ART 100 Introduction to Art **OR**	3
MUS 100 Introduction to Music	3
Area I core course in literature	3
Area I core course in a third field	3
Area I core course in any field	
*Dance Option majors must take MUS 100 or MUS 101	
Area II—see page 45 for list of approved courses	
HIST 101, 102 History of Western Civilization	6
Area II core course in a second field	3
Area II core course in a third field	3
Area III—see page 45 for list of approved courses	
Area III core course in mathematics	3-5
*Area III core course in a second field	4
*Area III core course in any field	4
*Dance Option majors must take BIOL 227-228. Prior or concurrent enrollment in CHEM 101 is recommended	
*THEA 10 Theatre Symposium	0
THEA 105 Play Analysis	3
THEA 117-118 Technical Theatre	8
THEA 215 Acting I	3
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 330 Development of Theatre III: Contemporary Forms	3
THEA 331 Advanced Major Production Participation	1
THEA 360 Advanced Studies in Theatre History **OR**	3
THEA 390 Dramaturgy	
THEA 401 Directing	3
*Required each semester of every theatre arts major.	
Dramatic literature course	3

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Theatre Arts (continued)	
Dance Option	
THEA 210 Repertory Dance THEA 212/412 Movement and Dance for the Performing Arts THEA 410 Repertory Dance	2 3 2
Ballet Technique chosen from THEA 112, THEA 213, THEA 314	4
Two different dance electives chosen from THEA 116, THEA 123, THEA 125, THEA 205, THEA 223, THEA 225, THEA 316	2
Upper-division electives to total 40 credits	14-23
Electives to total 128 credits	13-24
Design Option	
THEA 351 Elements of Scene Design THEA 352 Costume Design THEA 362 Stage Lighting Design	3 3 3
Upper-division electives to total 40 credits	15
Electives to total 128 credits	24-26
Directing Option	
THEA 216 Acting II THEA 300 Stage Management THEA 351 Elements of Scene Design THEA 402 Directing	3 3 3 3
Upper-division electives to total 40 credits	15
Electives to total 128 credits	21-23
Dramatic Writing Option	
THEA 340 Playwriting THEA 350 Screenwriting THEA 340 Playwriting **OR** THEA 350 Screenwriting	3 3 3
Upper-division electives to total 40 credits	15
Electives to total 128 credits	24-26
Performance Option	
THEA 216 Acting II THEA 233 Stage Voice THEA 234 Stage Voice THEA 311 Advanced Acting	3 2 2 3
Upper-division electives to total 40 credits	21
Electives to total 128 credits	17-19
Stage Management Option	
THEA 300 Stage Management THEA 310 Sound for the Theatre THEA 362 Stage Lighting Design THEA 440 Theatre Management	3 3 3 3
MGMT 301 Leadership Skills	3
Upper-division electives to total 40 credits	12
Electives to total 128 credits	24-26
Total	128
NOTE: The department recommends that theatre arts majors take UNIV 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 reflective practitioner. Reflective practitioners 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**
ENGL 101-102 English Composition	6
Area I—see page 45 for list of approved courses	
ART 100 Intro to Art **OR** MUS 100 Intro to Music Area I core course in literature Area I core course in a third field Area I core course in any field	3 3 3 3
Area II—see page 45 for list of approved courses	
ED-CIFS 201 Foundations of Education HIST 101 History of Western Civilization HIST 102 History of Western Civilization Area II core course in a third field	3 3 3 3
Area III—see page 45 for list of approved courses	
Area III core course in mathematics Area III core course in a second field Area III core course in any field	3-5 4 4
*ED-CIFS 301 Teaching Experience I *ED-CIFS 302 Learning and Instruction *ED-CIFS 401 Professional Year—Teaching Experience II *ED-LTCY 444 Content Literacy for Secondary Students *ED-SPED 350 Teaching Students with Exceptional Needs at the Secondary Level *Teaching Experience III/IV NOTE: *You must apply for admission to secondary teacher education in order to enroll in these upper-division education courses. Completion of all requirements for graduation with a secondary education option may require more than 128 credit hours. See "Department of Curriculum, Instruction, and Foundational Studies" for more information.	1 4 2 3 3 16
EDTECH 202 Educational Technology	3
ENGL 345 or 346 Shakespeare	3
*THEA 10 Theatre Symposium THEA 105 Play Analysis THEA 117-118 Technical Theatre THEA 212 or 412 Movement and Dance for Performance Art THEA 215-216 Acting I, II THEA 230 Development of Theatre I: Classical—Neoclassical Forms THEA 231 Major Production Participation THEA 233 Stage Voice THEA 260 Development of Theatre II: Modern Forms THEA 318 Methods of Teaching Secondary School Theatre THEA 331 Advanced Major Production Participation THEA 351 Elements of Scenic Design THEA 401-402 Directing THEA 440 Theatre Management *Required each semester of every theatre arts major.	0 3 8 3 6 3 1 2 3 2 1 3 6 3

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Theatre Arts, Secondary Education (continued)	
Theatre art course chosen from THEA 352 or THEA 362	3
Electives to total 128 credits	3-5
Total	128

Dance Minor

Course Number and Title	Credits
THEA 210 Repertory Dance THEA 410 Repertory Dance	2 2
THEA 212/412 Movement and Dance for the Performing Artist	3
Ballet Technique chosen from: THEA 112 Ballet I THEA 213 Ballet II THEA 314 Ballet III	4
Dance electives chosen from: THEA 116 Beginning/Intermediate Pointe Technique THEA 123 Modern Dance THEA 125 Jazz Dance THEA 205 Men's Ballet Technique THEA 223 Modern Dance II THEA 225 Jazz Dance II THEA 316 Advanced Pointe Technique Class	4
BIOL 107 Introduction to Human Biology (Area III) **OR** BIOL 227 Human Anatomy and Physiology (Area III)	4
KINES 270 - 271 Applied Anatomy and Lab	3
MUS 100 Introduction to Music (Area I) **OR** MUS 101 Survey of Western Art Music (Area I)	3
Approved Electives	3-4
Total	28-29

Theatre Arts Minor

Course Number and Title	Credits
THEA 117 Technical Theatre THEA 215 Acting I THEA 118 Technical Theatre **OR** THEA 216 Acting II THEA 230 Development of Theatre I: Classical—Neoclassical Forms THEA 231, 331 Major Production Participation THEA 401 Directing	4 3 3-4 3 3-4 3
Total	20

Theatre Arts Minor Certification Endorsement

Course Number and Title	Credits
COMM 101 Fundamentals of Speech Communication	3
THEA 117 Technical Theatre THEA 215 Acting I THEA 230 Development of Theatre I: Classical—Neoclassical Forms THEA 260 Development of Theatre II: Modern Forms THEA 331 Major Production Participation THEA 401 Directing	4 3 3 3 1 3
Total	20

Course Offerings

See page 65 for a definition of the course-numbering system.

THEA—THEATRE ARTS

Lower Division

THEA 10 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)(Area I). A survey course designed to stimulate an appreciation of drama and allied art forms, through the study of the history of theatre, dramatic literature, and production techniques.

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/S). Pointe technique with emphasis on strength and alignment. 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/S). 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/S). 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)(F/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, 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.

THEA 212, 412 MOVEMENT AND DANCE FOR THE PERFORMING ARTIST (3-0-3). 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)(Area I). An examination of the beginnings and development of motion pictures with attention given to the qualities peculiar to cinema which give it validity as a unique art form.

THEA 223 MODERN DANCE II (0-2-1)(F/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)(F/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)(Diversity). Explores shifts in theatrical practice and dramatic form in the classical Greek, Roman, Indian, and Japanese theatres and in Medieval and Renaissance European theatres, and the continuing influence of neo-classicism through the 18th century. PREREQ: ENGL 102.

THEA 231 MAJOR PRODUCTION PARTICIPATION (0-3-1)(F/S). Participation in a major college production in some aspect of technical theatre or management. May be repeated once for credit. PREREQ: THEA 117 or PERM/INST.

THEA 233 STAGE VOICE I (2-1-2)(F/S). 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/S). 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 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/S). 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 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)(Diversity). 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)(F/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)(Even years). 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)(Even years). 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)(F/S)(Diversity). 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 401 DIRECTING (3-0-3)(F). Basic theory and techniques of stage directing. Includes the direction of scenes and one-act plays. Special problems of directing are presented. PREREQ: THEA 330 and upper-division standing.

THEA 402 DIRECTING (3-0-3). Basic theory and techniques of stage directing. Includes the direction of scenes and one-act plays. Special problems of directing are presented. PREREQ: THEA 401.

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 (0-6-3)(F/S). The student will prepare and execute a major creative task in theatre. The student will completely research, plan, and execute a theatrical endeavor relative to his emphasis in theatre, culminating with a formally written evaluation of the entire experience. The project, upon completion, will be evaluated and graded by every appropriate faculty member. PREREQ: PERM/CHAIR.

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

Zoology—see Department of Biological Sciences

Chapter 13—Applied Technology Programs

Program offerings are dependent upon sufficient student interest and availability of instructors.

Applied Academics

Instructors: Brennan, Hill, Miller, Reese.

Course Offerings

See page 65 for a definition of the course-numbering system.

APPACAD — APPLIED ACADEMICS

APPACAD 65 SKILLS FOR CAREER AND LIFE PLANNING DECISIONS (1-0-0). Develop skills in evaluating choices, values and strategies for making informed decisions about career planning. Develops personalized process of self-assessment and career search. (Pass/Fail.)

APPACAD 70 BASIC MATH REVIEW (3-0-0). Whole numbers, fractions, decimals, ratios, proportions, percents, averages, and measurements. PREREQ: Satisfactory placement score.

APPACAD 80 READING AND STUDY SKILLS (3-0-0). Develops reading and study skills. Reading speed and comprehension improvement, textbook reading, note and test taking, and library use. (Pass/Fail.)

APPACAD 85 BASIC COMPOSITION (3-0-0). Fundamental skills in grammar, word usage, and punctuation. Builds sentence, paragraph, and basic essay skills. PREREQ: Satisfactory placement score.

APPACAD 88 INTRODUCTION TO ALGEBRA (3-0-0). For students who have no previous algebra experience or who need a thorough review. Algebraic expressions, linear equations, graphing, linear systems, and applications. PREREQ: Satisfactory placement score or APPACAD 70 or MATH 15.

APPACAD 90 ELEMENTARY ALGEBRA (3-0-0). Designed for students with existing or prior algebra knowledge; a continuation of APPACAD 88. Polynomials, factoring, rational expressions, linear inequalities, and applications. PREREQ: Satisfactory placement score or APPACAD 88.

APPACAD 103 HEALTH PROFESSIONS MATH (2-0-2)(F/S). Ratio, proportion, and basic algebra principles in dosage and solution calculations. PREREQ: Satisfactory placement score.

APPACAD 111 APPLIED COMMUNICATION (3-0-3)(F/S). Provides tools for increasing personal communication competency in interpersonal relationships, small groups, and public presentations. This course can be used in place of COMM 101 as an Area II core requirement on completion of the A.A.S. degree. PREREQ: APPACAD 80 or satisfactory reading placement score and APPACAD 85 or satisfactory writing placement score.

APPACAD 120 BASIC MATH APPLICATIONS (1-0-1)(F/S). Basic mathematical concepts and applications commonly encountered in applied technology programs.

APPACAD 130 MECHANICAL MATH (1-0-1)(F/S). Introduces mathematical skills relevant to the mechanical industry. Topics include: whole numbers, fractions, decimals, percents, proportions, basic electrical calculations, and angles. First five-week block. PREREQ: Satisfactory placement score or APPACAD 70 or MATH 15.

APPACAD 136 APPLIED TECHNICAL MATH (3-0-3)(F/S). Basic mathematical concepts and algebraic problem solving with strong emphasis on practical applications. Topics include estimating, fractions, decimals, ratios/proportions, percents, calculator usage, units of measurement, signed numbers, exponents and roots, algebraic operations, solutions of linear equations, scientific notation, and geometry of plane and solid figures. PREREQ: Satisfactory placement score or APPACAD 70 or MATH 15.

APPACAD 137 APPLIED GEOMETRY (1-0-1)(F/S). Principles of basic geometry and trigonometry relating to applied technology. PREREQ: APPACAD 136.

APPACAD 138 APPLIED BUSINESS MATH (3-0-3)(F/S). Basic mathematical concepts, applied business math principles, word problems analysis, and practical applications. Topics include estimating, calculator usage, percents, ratios/proportions, banking, payroll, cash/trade discounts, retail mark up/mark down, interest and present value, promissory notes, and depreciation. PREREQ: Satisfactory placement score or APPACAD 70 or MATH 15.

APPACAD 139 APPLIED ALGEBRA AND TRIGONOMETRY (4-0-4)(F/S). Intermediate principles of algebra, geometry, and trigonometry for applied technology. PREREQ: Satisfactory placement score or APPACAD 88.

APPACAD 141 APPLIED INTERMEDIATE ALGEBRA (2-0-2)(F/S). Concepts of statistics and direct applications of algebra for applied technology. PREREQ: APPACAD 139.

APPACAD 143 MATH FOR MACHINE TOOL TECHNOLOGY (3-0-3)(S). Applied mathematics relating to machine tool technology including fundamentals of algebra, principles of plane geometry, trigonometry, and compound angles. PREREQ: APPACAD 136.

APPACAD 179 JOB SEEKING SKILLS (1-0-1)(F/S). Enhancing skills for competing in the job market. Focuses on application processes, resume building, interviewing and other job seeking skills. PREREQ: APPACAD 80 or satisfactory reading placement score and APPACAD 85 or satisfactory writing placement score.

APPACAD 180 HUMAN RELATIONS AT WORK (2-0-2)(F/S). Focuses on the human relations skills for navigating the world of work. Includes customer service, communication skills, leadership, conflict management, employee rights, diversity, and professional work ethics. PREREQ: APPACAD 80 or satisfactory reading placement score and APPACAD 85 or satisfactory writing placement score.

APPACAD 181 OCCUPATIONAL RELATIONS (3-0-3)(F/S). A single course equivalent to Job Seeking Skills (APPACAD 179) plus Human Relations at Work (APPACAD 180). Credit cannot be granted for both APPACAD 179 and APPACAD 181, nor for both APPACAD 180 and APPACAD 181. PREREQ: APPACAD 80 or satisfactory reading placement score and APPACAD 85 or satisfactory writing placement score.

APPACAD 221 TECHNICAL REPORT WRITING (3-0-3)(F/S). Students will study and apply principles of workplace communications to complete the kinds of practical writing projects often required in industry, with an emphasis on creating technical reports. PREREQ: Satisfactory placement score or APPACAD 85 or ENGL 90 or ENGL 101.

Apprenticeship Program

Degrees Offered

- A.A.S. and B.A.S. in Apprenticeship Program

Program Statement

The associate of applied science degree for apprentices is a technical degree with emphasis on technical content and supervised, on-the-job experience. All related course work and on-the-job experience (except the general education requirements) are graded pass or fail.

To be eligible for this program, students must be registered with the Larry G. Selland College of Applied Technology. After completion of at least 544 hours in related course work and 8000 hours on-the-job instruction has been verified by the student's employer(s) and the Larry G. Selland College of Applied Technology, a transcript listing the student's course work and area of specialty is forwarded to the registrar; this information is then listed on an official Boise State transcript.

This program normally requires four years to complete. Special fees apply to this program.

Students interested in this program should contact the Larry G. Selland College of Applied Technology, Center for Workforce Training, Technical Services Building, Room 105, telephone 208 426-1974.

Degree Requirements

Apprenticeship Program Associate of Applied Science	
Course Number and Title	**Credits**
APPREN 101 Apprenticeship Training Technology	56
ENGL 101 **and** ENGL 102 **or** COMM 101 **or** APPACAD 111 Area I or II core course in any field Area III core course in mathematics Area I, II, or III core course in any field 16 credits chosen from the above. Please refer to the A.A.S. requirements in Chapter 10 for explanation.	6 3 3-5 3-4
Total	72

Course Offerings

See page 65 for a definition of the course-numbering system.

APPREN — APPRENTICESHIP

APPREN 101 APPRENTICESHIP TRAINING TECHNOLOGY (V-V-56). This program provides the student with related instruction and supervised, on-the-job experience. Content of the related instruction provides the student with the technical support course work needed to function on the job. The on-the-job experience is located at work sites (union and nonunion). (Pass/Fail). PREREQ: Registered with the Larry G. Selland College of Applied Technology.

Auto Body

Instructors: Parke, Paul

Degrees Offered

- T.C., A.T.C., A.A.S., and B.A.S. in Auto Body

Program Statement

The Auto Body program provides students with the skills necessary for employment in the collision and refinishing trade. First year training includes theory and lab covering: welding, minor repair, polishing, priming, panel replacement, plastic bumper repair, estimating, structural and non-structural repair. Second year training includes theory and lab covering: refinishing, and related equipment, blending, color match, primers, detailing, custom painting, estimating, structural and non-structural repair.

Degree Requirements

Auto Body Technical Certificate	
Course Number and Title	**Credits**
APPACAD 111 Applied Communication	3
APPACAD 130 Mechanical Math	1
APPACAD 179 Job Seeking Skills	1
APPACAD 180 Human Relations at Work	2
AUTOBD 110 Safety	1
AUTOBD 110L Safety Lab	2
AUTOBD 120 Welding	1
AUTOBD 120L Welding Lab	2
AUTOBD 130 Minor Repairs	1
AUTOBD 130L Minor Repairs Lab	2
AUTOBD 140 Detail and Polishing	1
AUTOBD 140L Detail and Polishing Lab	2
AUTOBD 160 Estimating	1
AUTOBD 160L Estimating Lab	2
AUTOBD 170 Primers/Paint Prep	1
AUTOBD 170L Primers/Paint Lab	2
AUTOBD 180 Collision Repair	2
AUTOBD 180L Collision Repair Lab	4
Total	31

Auto Body Advanced Technical Certificate	
Course Number and Title	**Credits**
Successful completion of Auto Body technical certificate	31
AUTOBD 210 Paint Refinishing	2
AUTOBD 210L Paint Refinishing Lab	4
AUTOBD 220 Two- and Four-Wheel Alignment	1
AUTOBD 220L Two- and Four-Wheel Alignment Lab	2
AUTOBD 230 Advanced Collision Repair	1
AUTOBD 230L Advanced Collision Repair Lab	2
AUTOBD 260 Auto Body Co-op	6
AUTOBD 270 Automotive Electrical Systems	1
AUTOBD 270L Automotive Electrical Systems Lab	2
AUTOBD 280 Automotive Heating and Air Conditioning	1
AUTOBD 280L Automotive Heating and Air Conditioning Lab	2
Total	55

Auto Body Associate of Applied Science	
Course Number and Title	**Credits**
Successful completion of Auto Body advanced technical certificate except APPACAD 111, APPACAD 130, APPACAD 179, and APPACAD 180	48
ENGL 101 English Composition **AND** ENGL 102 **OR** COMM 101 **OR** APPACAD 111 Area I or II core course in any field Area III core course in mathematics Area I, II, or III core course in any field 16 credits chosen from above. Please refer to the A.A.S. requirements in Chapter 10 for explanation.	3 3 3 3-5 3-4
Total	64

Course Offerings

See page 65 for a definition of the course-numbering system.

AUTOBD — AUTO BODY

AUTOBD 110 SAFETY (0-3-1)(F/S). Orientation to tools, safety, shop procedures, and industry needs and standards. COREQ: AUTOBD 110L.

AUTOBD 110L SAFETY LAB (0-6-2)(F/S). COREQ: AUTOBD110.

AUTOBD 120 WELDING (0-3-1)(F/S). Mild steel, brazing, wire feed welding on car sheet metals, basic oxyacetylene, MIG welding, plasma air arc cutting, equipment, tools and safety. PREREQ: AUTOBD 110, AUTOBD 110L. COREQ: AUTOBD 120L.

AUTOBD 120L WELDING LAB (0-6-2)(F/S). PREREQ: AUTOBD 110, AUTOBD 110L. COREQ: AUTOBD 120.

AUTOBD 130 MINOR REPAIRS (0-3-1)(F/S). Basic theory in metal finishing and minor body damage using plastic body fillers, roughing metal and grinding sheet metals, sandpapers, sanding techniques of plastic fillers, and air tools. PREREQ: AUTOBD 120, AUTOBD 120L. COREQ: AUTOBD 130L.

AUTOBD 130L MINOR REPAIRS LAB (0-6-2)(F/S). PREREQ: AUTOBD 120, AUTOBD 120L. COREQ: AUTOBD 130.

AUTOBD 140 DETAIL AND POLISHING (0-3-1)(F/S). Basic theory in car polishing, paint surface cleaning, interior and exterior detailing, and shop management. PREREQ: AUTOBD 130, AUTOBD 130L. COREQ: AUTOBD 140L.

AUTOBD 140L DETAIL AND POLISHING LAB (0-6-2)(F/S). PREREQ: AUTOBD 130, AUTOBD 130L. COREQ: AUTOBD 140.

AUTOBD 160 ESTIMATING (0-3-1)(F/S). Measuring, analysis, and estimating. Basic measuring systems, estimating collision damage, and painting surfaces. PREREQ: AUTOBD 140, AUTOBD 140L. COREQ: AUTOBD 160L.

AUTOBD 160L ESTIMATING LAB (0-6-2)(F/S). PREREQ: AUTOBD 140, AUTOBD 140L. COREQ: AUTOBD 160.

AUTOBD 170 PRIMERS/PAINT PREP (0-3-1)(F/S). Primers, paint prep, basic sanding, and preparing of painted surfaces. PREREQ: AUTOBD 160, AUTOBD 160L. COREQ: AUTOBD 170L.

AUTOBD 170L PRIMERS/PAINT PREP LAB (0-6-2)(F/S). PREREQ: AUTOBD 160, AUTOBD 160L. COREQ: AUTOBD 170.

AUTOBD 180 COLLISION REPAIR (0-6-2)(F/S). Theory in minor collision damage, major bench repair techniques, panel replacement, and rubber panel repair. PREREQ: AUTOBD 170, AUTOBD 170L. COREQ: AUTOBD 180L.

AUTOBD 180L COLLISION REPAIR LAB (0-12-4)(F/S). PREREQ: AUTOBD 170, AUTOBD 170L. COREQ: AUTOBD 180.

AUTOBD 210 PAINT REFINISHING (0-6-2)(F). Painting, advanced knowledge of painting, color matching, blending, color sanding, and polishing. Custom painting, graphics, stripes, flames, shading. PREREQ: AUTOBD 180, AUTOBD 180L. COREQ: AUTOBD 210L.

AUTOBD 210L PAINT REFINISHING LAB (0-12-4)(F/S). PREREQ: AUTOBD 180, AUTOBD 180L. COREQ: AUTOBD 210.

AUTOBD 220 TWO- AND FOUR-WHEEL ALIGNMENT (0-3-1). Hands-on operation and servicing of two- and four-wheel alignment and suspension systems. COREQ: AUTOBD 220L.

AUTOBD 220L TWO- AND FOUR-WHEEL ALIGNMENT LAB (0-6-2)(F/S). COREQ: AUTOBD 220.

AUTOBD 230 ADVANCED COLLISION REPAIR (0-3-1)(F/S). Collision damage repair, welding or gluing of panel replacement, unibody collision repair, bench repair systems, frame alignment, and measuring analysis. PREREQ: AUTOBD 210, AUTOBD 210L. COREQ: AUTOBD 230L.

AUTOBD 230L ADVANCED COLLISION REPAIR LAB (0-6-2)(F/S). PREREQ: AUTOBD 210, AUTOBD 210L. COREQ: AUTOBD 230.

AUTOBD 260 AUTO BODY CO-OP (2-12-6)(F/S). Coursework with local dealerships and independent shops enables student to develop interpersonal and job-readiness skills needed in the auto body/collision repair field. PREREQ: AUTOBD 230, AUTOBD 230L.

AUTOBD 270 AUTOMOTIVE ELECTRICAL SYSTEMS (0-3-1). Basic automotive electrical systems, testing equipment, charging systems, and wire repair as they apply to collision repair. COREQ: AUTOBD 270L.

AUTOBD 270L AUTOMOTIVE ELECTRICAL SYSTEMS LAB (0-6-2)(F/S). COREQ: AUTOBD 270.

AUTOBD 280 AUTOMOTIVE HEATING AND AIR CONDITIONING (0-3-1)(F/S). Basic automotive heating and air conditioning including evacuation and charging of air conditioning refrigerants. COREQ: AUTOBD 280L.

AUTOBD 280L AUTOMOTIVE HEATING AND AIR CONDITIONING LAB (0-6-2) (F/S). COREQ: AUTOBD 280.

Automated Industrial Technician

Degrees Offered

- A.T.C., A.A.S., and B.A.S. in Automated Industrial Technician

Program Statement

This double-major option combines the industrial mechanics/automation and welding/metal fabrication curriculums.

Degree Requirements

Automated Industrial Technician
Advanced Technical Certificate

Course Number and Title	Credits
APPACAD 111 Applied Communication	3
APPACAD 130 Mechanical Math	1
APPACAD 179 Job Seeking Skills	1
APPACAD 180 Human Relations at Work	2
IMTEC 101 Maintenance Welding Technology	3
IMTEC 102 Maintenance Machine Fundamentals	3
IMTEC 114 Electromechanical Systems	3
IMTEC 115 Electromechanical Systems	3
IMTEC 124 Basic Fluid Power Applications-Hydraulics	3
IMTEC 125 Basic Fluid Power Applications-Pneumatics	3
IMTEC 134 Industrial Technology Laboratory	3
IMTEC 135 Industrial Technology Laboratory	4
IMTEC 144 Air Condition/Refrigeration Systems Maintenance	2
IMTEC 145 Heating Systems Maintenance	2
WELD 125 Blueprint Reading and Layout I	2
WELD 126 Blueprint Reading and Layout II	2
WELD 127 Blueprint Reading and Layout III	2
WELD 128 Blueprint Reading and Layout IV	2
WELD 155 Welding Theory I	1
WELD 155L Welding Laboratory I	4
WELD 156 Welding Theory II	1
WELD 156L Welding Laboratory II	4
WELD 157 Welding Theory III	1
WELD 157L Welding Laboratory III	4
WELD 158 Welding Theory IV	1
WELD 158L Welding Laboratory IV	4
Total	64

See "Applied Academics", "Industrial Maintenance Technology", and "Welding and Metals Fabrication" for detailed course descriptions.

Automated Industrial Technician
Associate of Applied Science

Course Number and Title	Credits
Successful completion of Automated Industrial Technician advanced technical certificate except APPACAD 111, APPACAD 130, APPACAD 179, and APPACAD 180	57
ENGL 101 English Composition **AND** ENGL 102 **OR** COMM 101 **OR** APPACAD 111 Area I or II core course in any field Area III core course in mathematics Area I, II, or III core course in any field 16 credits chosen from above. Please refer to the A.A.S. requirements in Chapter 10 for explanation.	3 3 3 3-5 3-4
Total	73

Automotive Technology

Instructors: Doughty, Gallagher, Hubsmith, Neal.

Degrees Offered

- P.T.C. in Maintenance and Light Repair
- T.C., A.T.C., A.A.S., and B.A.S. in Automotive Technology

Program Statement

The Automotive Technology program covers diagnosis, service, and repair of automobiles and light trucks.

The postsecondary technical certificate (P.T.C.) in Maintenance and Light Repair, offered in partnership with Ford Motor Company, offers a quick, low-intensity opportunity for students to enter the field of automotive service. Students will acquire the necessary skills to perform regular maintenance, minor or light repairs, and parts installation on automobiles and light trucks.

The technical certificate (T.C.) covers general principles and specific product information. Lab work emphasizes a hands-on orientation with extensive training on functional vehicles. In all cases, courses are oriented toward high levels of technical understanding to provide the skills needed for employment.

In addition to advanced technical theory in the classroom, the advanced technical certificate (A.T.C.) includes laboratory work in a practicum setting with local dealerships, independent garages, and specialty shops. In addition to the A.T.C., students may choose to continue their education by completing the university core requirements for the associate of applied science degree.

The Automotive Technology program is fully accredited by the National Automotive Technicians Education Foundation (NATEF), and the instructors are master technicians certified by Automotive Service Excellence (ASE).

Degree Requirements

Maintenance and Light Repair
Postsecondary Technical Certificate

Course Number and Title	Credits
AUTOTEC 120 Automotive Brakes, Suspension & Alignment	4
AUTOTEC 120L Automotive Brakes, Suspension & Alignment Lab	3
AUTOTEC 130 Electrical Systems, Heating & Air Conditioning	4
AUTOTEC 130L Electrical Systems, Heating & Air Conditioning Lab	3
Total	14

Automotive Technology Technical Certificate	
Course Number and Title	**Credits**
APPACAD 111 Applied Communication	3
APPACAD 130 Mechanical Math	1
APPACAD 179 Job Seeking Skills	1
APPACAD 180 Human Relations at Work	2
AUTOTEC 120 Automotive Brakes, Suspension & Alignment	4
AUTOTEC 120L Automotive Brakes, Suspension & Alignment Lab	3
AUTOTEC 130 Electrical Systems, Heating & Air Conditioning	4
AUTOTEC 130L Electrical Systems, Heating & Air Conditioning Lab	3
AUTOTEC 140 Engines, Manual Transmission & Differential Repair	4
AUTOTEC 140L Engines, Manual Transmission and Differential Repair Lab	3
AUTOTEC 150 Automatic Transmission & Engine Performance	4
AUTOTEC 150L Automatic Transmission & Engine Performance Lab	3
CORBLK 110 Automotive/HD Diesel Service Fundamentals	4
CORBLK 110L Automotive/HD Diesel Service Fundamentals Lab	3
Total	42

Automotive Technology Advanced Technical Certificate	
Course Number and Title	**Credits**
Successful completion of Automotive Technology technical certificate	42
AUTOTEC 270 Advanced Brakes, Suspension and Alignment	3
AUTOTEC 271 Advanced Electrical and Electronic Systems	3
AUTOTEC 272 Advanced Engine Repair and Heavy Line	3
AUTOTEC 273 Advanced Transmissions/Transaxles & Differentials	3
AUTOTEC 274 Advanced Engine Performance	3
AUTOTEC 275 Advanced Heating and Air Conditioning	3
Total	60

Automotive Technology Associate of Applied Science	
Course Number and Title	**Credits**
Successful completion of Automotive Technology advanced technical certificate except APPACAD 111, APPACAD 130, APPACAD 179, and APPACAD 180	53
ENGL 101 English Composition **AND**	3
ENGL 102 **OR** COMM 101 **OR** APPACAD 111	3
Area I or II core course in any field	3
Area III core course in mathematics	3-5
Area I, II, or III core course in any field 16 credits chosen from above. Please refer to the A.A.S. requirements in Chapter 10 for explanation.	3-4
Total	69

Course Offerings

See page 65 for a definition of the course-numbering system.

AUTOTEC — AUTOMOTIVE TECHNOLOGY

AUTOTEC 120 AUTOMOTIVE BRAKES, SUSPENSION AND ALIGNMENT (2-6-4)(F/S). Focuses on design, construction, and operation of various brake, suspension, and steering systems, power assist units, and anti-lock brake systems. Includes theory of wheel alignment and wheel balancing. PRE/COREQ: CORBLK 110 COREQ: AUTOTEC 120L.

AUTOTEC 120L AUTOMOTIVE BRAKES, SUSPENSION AND ALIGNMENT LAB (0-9-3) (F/S). COREQ: AUTOTEC 120.

AUTOTEC 130 ELECTRICAL SYSTEMS, HEATING AND AIR CONDITIONING (2-6-4) (F/S). Theory of basic electrical systems and power accessories. Identification and use of basic and sophisticated electronic test equipment. Focuses on the design characteristics and principles of automotive heating and air conditioning. PRE/COREQ: CORBLK 110. COREQ: AUTOTEC 130L.

AUTOTEC 130L ELECTRICAL SYSTEMS, HEATING AND AIR CONDITIONING LAB (0-9-3)(F/S). COREQ: AUTOTEC 130.

AUTOTEC 140 ENGINES, MANUAL TRANSMISSION AND DIFFERENTIAL REPAIR (2-6-4)(F/S). Engine, manual transmission, study of differential design and theory. Proper parts evaluation, disassembly, and assembly techniques. PRE/COREQ: CORBLK 110. COREQ: AUTOTEC 140L.

AUTOTEC 140L ENGINES, MANUAL TRANSMISSION AND DIFFERENTIAL REPAIR LAB (0-9-3)(F/S). COREQ: AUTOTEC 140.

AUTOTEC 150 AUTOMATIC TRANSMISSION AND ENGINE PERFORMANCE (2-6-4) (F/S). Focuses on fundamentals of automatic transmissions and the study of transaxle design features, and theory of operation. Includes the theory, design and operation of the fuel, ignition, and computer-controlled systems with emphasis on engine performance. PRE/COREQ: CORBLK 110. COREQ: AUTOTEC 150L.

AUTOTEC 150L AUTOMATIC TRANSMISSION AND ENGINE PERFORMANCE LAB (0-9-3)(F/S). COREQ: AUTOTEC 150.

AUTOTEC 270 ADVANCED BRAKES, SUSPENSION AND ALIGNMENT (1-5-3)(F/S). Advanced wheel alignment and brake system principles and concepts in the diagnosis and repair of two- and four-wheel drive vehicles utilizing computerized equipment. PREREQ: AUTOTEC 150.

AUTOTEC 271 ADVANCED ELECTRICAL AND ELECTRONIC SYSTEMS (1-5-3)(F/S). Advanced electrical systems principles and concepts in the diagnosis and repair of electrical problems utilizing the latest technology in testing equipment. PREREQ: AUTOTEC 150.

AUTOTEC 272 ADVANCED ENGINE REPAIR AND HEAVY LINE (1-5-3)(F/S). Advanced engine repair principles and concepts in diagnosis, disassembly, inspection, repair, and assembly of domestic and foreign car engines and accessories. PREREQ: AUTOTEC 150.

AUTOTEC 273 ADVANCED TRANSMISSIONS/TRANSAXLES AND DIFFERENTIALS (1-5-3)(F/S). Advanced principles and concepts in diagnosis, disassembly, inspection, repair, and assembly of domestic and foreign automobile automatic and manual transmissions, transaxles and differentials. PREREQ: AUTOTEC 150.

AUTOTEC 274 ADVANCED ENGINE PERFORMANCE (1-5-3)(F/S). Advanced principles and concepts in the diagnosis of problems and adjustment of vehicle computer control system. PREREQ: AUTOTEC 150.

AUTOTEC 275 ADVANCED HEATING AND AIR CONDITIONING (1-5-3)(F/S). Advanced troubleshooting and repair techniques used on heating and air conditioning systems. PREREQ: AUTOTEC 150.

Broadcast Technology

Instructors: Dodson, Lyons.

Degrees Offered

- A.T.C., A.A.S., and B.A.S. in Broadcast Technology

Program Statement

The Broadcast Technology program prepares students to operate and maintain broadcast audio and video equipment in the context of broadcast station operations. An emphasis is placed on analog and digital electronics. Additionally, technicians develop competencies in video editing, studio facilities, field production, videotape technology, broadcast operations, and broadcast equipment maintenance. Through opportunities offered by internship programs, technicians develop a realistic understanding of professional work ethics under actual working conditions.

Degree Requirements

Broadcast Technology Advanced Technical Certificate	
Course Number and Title	**Credits**
APPACAD 111 Applied Communication	3
APPACAD 139 Applied Algebra and Trigonometry	4
APPACAD 179 Job Seeking Skills	1
APPACAD 180 Human Relations at Work	2
BRDTEC 121 Broadcast Operations	3
BRDTEC 122 Broadcast Operations Laboratory	2
BRDTEC 221 Broadcast Facilities Maintenance	3
BRDTEC 222 Broadcast Facilities Maintenance Laboratory	2
BRDTEC 230 RF for Broadcasting	2
BRDTEC 232 RF for Broadcasting Laboratory	2
BRDTEC 293 Broadcast Technology Internship	1
BUSTEC 161 Introduction to Microcomputers	3
CNET 121 Computer Networking I	4

—continued—

Broadcast Technology, A.T.C. (continued)	
ELCTEC 151L DC Electronics Laboratory	2
ELCTEC 152L AC Electronics Laboratory	2
ELCTEC 151 DC Electronic Theory	3
ELCTEC 152 AC Electronic Theory	2
ELCTEC 162 Intro to Digital Systems	3
ELCTEC 163 Intro to Digital Systems Lab	1
ELCTEC 172 Solid State Devices	3
ELCTEC 173 Solid State Devices Lab	3
ELCTEC 202 Telecommunications Systems Lab	1
ELCTEC 252 Telecommunications Systems	3
MACHTEC 100 Hand Tools	1
Total	56

Broadcast Technology Associate of Applied Science	
Course Number and Title	**Credits**
Successful completion of Broadcast Technology advanced technical certificate except APPACAD 111, APPACAD 179, and APPACAD 180	50
ENGL 101 English Composition **AND** ENGL 102 **OR** COMM 101 **OR** APPACAD 111 Area I or II core course in any field Area III core course in mathematics Area I, II, or III core course in any field 16 credits chosen from above. Please refer to the A.A.S. requirements in Chapter 10 for explanation.	3 3 3 3-5 3-4
Total	66

Course Offerings

See page 65 for a definition of the course-numbering system.

BRDTEC — BROADCAST TECHNOLOGY

BRDTEC 121 BROADCAST OPERATIONS (3-0-3)(F/S). Theory and practice of master control operations for radio and television, including master control switching, character generators, audiotape and videotape recorder operations, time-based correction, camera operations, satellite and microwave operations, metering functions, and rf transmission systems.

BRDTEC 122 BROADCAST OPERATIONS LABORATORY (0-6-2)(F/S). Lab to support BRDTEC 121.

BRDTEC 221 BROADCAST FACILITIES MAINTENANCE (3-0-3)(F/S). Preventive maintenance for studio and field-based broadcast systems. Procedures for routine repair of broadcast equipment. Conceptual knowledge of electronic components within broadcast systems. SBE certification exam preparation. PREREQ: ELCTEC 163 and BRDTEC 121.

BRDTEC 222 BROADCAST FACILITIES MAINTENANCE LABORATORY (0-6-2)(F/S). Lab to support BRDTEC 221.

BRDTEC 230 RF FOR BROADCASTING (2-0-2)(F/S). Transmitters, receivers, transmission lines, fiber optics and antennas. PREREQ: BRDTEC 221.

BRDTEC 232 RF FOR BROADCASTING LABORATORY (0-6-2)(F/S). Lab to support BRDTEC 230.

BRDTEC 293 BROADCAST TECHNOLOGY INTERNSHIP (0-50-1)(F/S). Practical experience within a professional broadcast environment. Course can be repeated for credit.

Business
Business Technology

Instructors: Benson, Harbacheck, Hartman, Holcomb, Orr, Shaver.

Degrees Offered

- T.C. in Business Technology
- A.T.C., A.A.S., and B.A.S. in Accounting Technology
- A.T.C., A.A.S., and B.A.S. in Administrative Office Technology
- A.T.C., A.A.S., and B.A.S. in Legal Office Technology

Program Statement

The Business Technology program develops strong basic skills, technical skills, knowledge, and attitudes required for successful employment in a variety of business offices in private industry and government. Students in the program may pursue a 1-year technical certificate in business technology or a specialized 2-year advanced technical certificate or associate of applied science degree in accounting technology, administrative office technology, or legal office technology.

The Business Technology program is competency-based, specifying student performance objectives required for employment. Previous training or experience may be substituted for course work if competence is demonstrated through testing (with permission of the program head and the instructor).

The technical certificate program provides students with the basic skills necessary to work in such entry-level office positions as office clerk, receptionist, office assistant, or information processing assistant. After completing the program, students will be able to perform such routine office tasks as filing, answering the telephone, and record keeping, as well as using microcomputers for word processing and basic business applications. Emphasis is placed on developing communication and problem-solving skills in addition to technical skills. A technical certificate is awarded upon successful completion of the required business technology courses. All credits earned for a technical certificate may be applied toward an advanced technical certificate or associate of applied science degree.

Degree Requirements

Business Technology Technical Certificate	
Course Number and Title	**Credits**
APPACAD 111 Applied Communication	3
APPACAD 138 Applied Business Math	3
APPACAD 180 Human Relations at Work	2
BUSTEC 104 Leadership Development	2
BUSTEC 110 Document Formatting	3
BUSTEC 111 Document Processing	3
BUSTEC 112 Office Procedures	3
BUSTEC 118 Career Development	2
BUSTEC 133 Business English	3
BUSTEC 135 Business Editing	3
BUSTEC 151 Applied Accounting I	3
BUSTEC 162 Business Computer Applications I	3
BUSTEC 164 Business Computer Applications II	3
Total	36

The program leading to an associate of applied science degree in accounting technology provides students with the basic knowledge of accounting processes necessary for employment as accounting clerks, payroll clerks, bookkeepers, accounting technicians, and accounting associates. After completing the program, students will be able to record day-to-day financial transactions and prepare summary statements of business conditions for a small business, or assist with the accounting functions of a larger business or government agency. Emphasis is placed on using microcomputers to perform accounting functions and prepare reports. As a capstone training experience, students complete a one-semester internship in an accounting technician trainee position. This internship allows students to apply competencies previously learned to on-the-job situations.

Accounting Technology Advanced Technical Certificate	
Course Number and Title	**Credits**
Successful completion of Business Technology technical certificate	36
BUSTEC 231 Applied Business Communication BUSTEC 252 Applied Accounting II BUSTEC 253 Applied Accounting III BUSTEC 255 Computerized Accounting BUSTEC 257 Payroll Accounting BUSTEC 261 Integrated Microcomputer Applications BUSTEC 293 Business Technology Internship	3 3 3 3 3 3 3
Course chosen from MRKTEC 257, Area I Core, or Area II Core	3
Total	60

Accounting Technology Associate of Applied Science	
Course Number and Title	**Credits**
Successful completion of Business Technology technical certificate except APPACAD 111	33
BUSTEC 231 Applied Business Communication BUSTEC 252 Applied Accounting II BUSTEC 253 Applied Accounting III BUSTEC 255 Computerized Accounting BUSTEC 257 Payroll Accounting BUSTEC 261 Integrated Microcomputer Applications BUSTEC 293 Business Technology Internship	3 3 3 3 3 3 3
ENGL 101 English Composition **AND** ENGL 102 **OR** COMM 101 **OR** APPACAD 111 Area I or II core course in any field Area III core course in mathematics Area I, II, or III core course in any field 16 credits chosen from above. Please refer to the A.A.S. requirements in Chapter 10 for explanation.	3 3 3 3-5 3-4
Total	70

The program leading to an associate of applied science degree in administrative office technology provides students with the technical skills and knowledge necessary for employment in a variety of office positions and for advancement toward administrative assistant and office management positions. After completing the program, students will be able to perform a variety of administrative duties in an office as well as use microcomputers and business application software to perform advanced information processing functions. Emphasis is placed on developing problem-solving and decision-making abilities in addition to technical skills. As a capstone training experience, students complete a one-semester internship in an administrative support trainee position. This internship allows students to apply competencies previously learned to on-the-job situations.

Administrative Office Technology Advanced Technical Certificate	
Course Number and Title	**Credits**
Successful completion of Business Technology technical certificate	36
BUSTEC 211 Word Processing Production I BUSTEC 212 Word Processing Production II BUSTEC 231 Applied Business Communication BUSTEC 261 Integrated Microcomputer Applications BUSTEC 267 Desktop Publishing BUSTEC 285 Administrative Office Systems BUSTEC 293 Business Technology Internship	3 3 3 3 3 3 3
Course chosen from MRKTEC 257, Area I Core, or Area II Core	3
Total	60

Administrative Office Technology Associate of Applied Science	
Course Number and Title	**Credits**
Successful completion of Business Technology technical certificate except APPACAD 111	33
BUSTEC 211 Word Processing Production I BUSTEC 212 Word Processing Production II BUSTEC 231 Applied Business Communication BUSTEC 261 Integrated Microcomputer Applications BUSTEC 267 Desktop Publishing BUSTEC 285 Administrative Office Systems BUSTEC 293 Business Technology Internship	3 3 3 3 3 3 3
ENGL 101 English Composition **AND** ENGL 102 **OR** COMM 101 **OR** APPACAD 111 Area I or II core course in any field Area III core course in mathematics Area I, II, or III core course in any field 16 credits chosen from above. Please refer to the A.A.S. requirements in Chapter 10 for explanation.	3 3 3 3-5 3-4
Total	70

The program leading to an associate of applied science degree in legal office technology provides students with the technical skills and knowledge necessary for employment in a legal office as a legal secretary or legal word processor. After completing the program, students will be able to perform a variety of administrative and technical duties essential to the efficient operation of a legal office. Specialized training is provided in legal terminology and transcription, legal office procedures, and legal document preparation. Emphasis is placed on legal systems and procedures as well as using microcomputers and business application software to perform advanced information-processing functions. Problem-solving and decision-making abilities are developed in addition to technical skills. As a capstone training experience, students will complete a one-semester internship in a legal secretary trainee position. This internship allows students to apply competencies previously learned to on-the-job situations.

Legal Office Technology Advanced Technical Certificate	
Course Number and Title	**Credits**
Successful completion of Business Technology technical certificate	36
BUSTEC 210 Legal Word Processing BUSTEC 231 Applied Business Communication BUSTEC 271 Legal Terminology and Transcription BUSTEC 273 Legal Office Technology I BUSTEC 274 Legal Office Technology II BUSTEC 277 Legal Documentation BUSTEC 293 Business Technology Internship	3 3 3 3 3 3 3
Course chosen from MRKTEC 257, Area I Core, or Area II Core	3
Total	60

Legal Office Technology Associate of Applied Science	
Course Number and Title	**Credits**
Successful completion of Business Technology technical certificate except APPACAD 111	33
BUSTEC 210 Legal Word Processing BUSTEC 231 Applied Business Communication BUSTEC 271 Legal Terminology and Transcription BUSTEC 273 Legal Office Technology I BUSTEC 274 Legal Office Technology II BUSTEC 277 Legal Documentation BUSTEC 293 Business Technology Internship	3 3 3 3 3 3 3
ENGL 101 English Composition **AND** ENGL 102 **OR** COMM 101 **OR** APPACAD 111 Area I or II core course in any field Area III core course in mathematics Area I, II, or III core course in any field 16 credits chosen from above. Please refer to the A.A.S. requirements in Chapter 10 for explanation.	3 3 3 3-5 3-4
Total	70

Course Offerings

See page 65 for a definition of the course-numbering system.

BUSTEC — BUSINESS TECHNOLOGY

BUSTEC 104 LEADERSHIP DEVELOPMENT (2-0-2)(F/S). Emphasis on skills and attitudes necessary to develop leadership potential.

BUSTEC 105 LEADERSHIP ACTIVITIES (1-0-1)(F/S). Application of leadership skills through involvement in Business Professionals of America student organization activities. Includes participation in business-oriented community/campus projects and state/national leadership conferences/competition. Course may be repeated for credit.

BUSTEC 110 DOCUMENT FORMATTING (2-3-3)(F/S). Introduction to the alphabetic and numeric computer keyboard and basic keyboarding techniques. Develops skill and proficiency in formatting basic business documents including correspondence, reports, and tables using word processing features and functions. Emphasis on mailability, keyboarding speed, and accuracy.

BUSTEC 111 DOCUMENT PROCESSING (2-3-3)(F/S). Develops skill in producing business documents including specialized tables, reports, correspondence, forms, and graphics using word processing functions and features. Emphasis on productivity and continued improvement in keyboarding speed and accuracy. PREREQ: BUSTEC 110.

BUSTEC 112 OFFICE PROCEDURES (3-0-3)(F/S). An introduction to the role of the office professional in the modern office environment. Develops skills in telephone communication, mail handling procedures, organization and time management, records management, meeting and travel planning, and other administrative support responsibilities.

BUSTEC 118 CAREER DEVELOPMENT (2-0-2)(F/S). Strategies and techniques for establishing and succeeding in a career. Emphasizes self-analysis, developing a job search strategy, preparing a professional portfolio, effective interview techniques, human relations, and current career topics.

BUSTEC 133 BUSINESS ENGLISH (3-0-3)(F/S). Comprehensive review of English skills with emphasis on correct grammar usage, sentence structure, word usage, spelling, and vocabulary. Covers mechanics of punctuation, capitalization, number usage, and abbreviations. Provides strong foundation for effective communication in business.

BUSTEC 135 BUSINESS EDITING (2-3-3)(F/S). Application of proofreading and editing techniques to written business communications. Develops skill in detecting and correcting errors in format, punctuation, spelling, grammar, and word usage as well as editing for clarity and conciseness. Includes transcription of business documents from recorded dictation. PREREQ: BUSTEC 133.

BUSTEC 151 APPLIED ACCOUNTING I (3-0-3)(F/S). Introduction of fundamental double-entry accounting concepts and terminology. Emphasis on analyzing and recording business transactions and completing adjusting and closing entries for the accounting cycle of a service business. Includes procedures for banking, cash funds, calculating and recording payroll.

BUSTEC 161 INTRO TO MICROCOMPUTERS (2-2-3)(F/S). An introduction to the fundamentals of microcomputers and specialized software used in business, including word processing, database, spreadsheets, and operating systems.

BUSTEC 162 BUSINESS COMPUTER APPLICATIONS I (2-3-3)(F/S). Introduction to computer components and terminology, the Windows environment, and current productivity software with emphasis on spreadsheet, database, and electronic presentation applications.

BUSTEC 164 BUSINESS COMPUTER APPLICATIONS II (2-3-3)(F/S). Intermediate course in computer software for business with emphasis on business problem solving and productivity in spreadsheet, database, and electronic presentation applications. PREREQ: BUSTEC 162.

BUSTEC 210 LEGAL WORD PROCESSING (1-4-3)(F/S). Introduction to legal document formatting and production using WordPerfect word processing software. PREREQ: BUSTEC 111.

BUSTEC 211 WORD PROCESSING PRODUCTION I (1-5-3)(F/S). Develops skill in creating and revising complex business documents and integrated office projects using advanced functions and desktop publishing features of word processing software. Emphasis on decision-making, productivity, and high-quality work. PREREQ: BUSTEC 111 and demonstrated keyboarding speed of 40 net words per minute on a 5 minute timing.

BUSTEC 212 WORD PROCESSING PRODUCTION II (1-5-3)(F/S). Develops proficiency in using advanced word processing functions of multiple software packages. This course will allow students to maximize their effectiveness in using word processing capabilities to produce impressive documents in the business office. PREREQ: BUSTEC 211 and demonstrated keyboarding speed of 50 net words per minute on a 5 minute timing.

BUSTEC 231 APPLIED BUSINESS COMMUNICATION (3-0-3)(F/S). Principles and strategies for effective written and oral communication in business. Develops ability to analyze communication problems; organize ideas logically; and express ideas correctly and persuasively in business letters, memos, reports, and oral presentations. Emphasis on systematic and creative approaches to solving business communication problems. PREREQ: BUSTEC 133.

BUSTEC 252 APPLIED ACCOUNTING II (3-2-3)(F/S). Continuation of BUSTEC 151. Includes accounting for sales, purchases, cash payments, and cash receipts; completing adjusting and closing entries; and preparing financial statements for a merchandising business. Introduces accounting for notes payable and receivable as well as valuation of receivables, inventories, and plant assets. PREREQ: BUSTEC 151.

BUSTEC 253 APPLIED ACCOUNTING III (3-2-3)(F/S). Introduction of advanced accounting topics. Includes voucher systems, accounting procedures for partnerships and corporations, statement of cash flows, analysis of financial statements, and an overview of departmental and manufacturing accounting. PREREQ: BUSTEC 252.

BUSTEC 255 COMPUTERIZED ACCOUNTING (1-5-3)(F/S). Introduction to computerized systems for establishing and maintaining small business accounting records. Includes integrated modules for general ledger, invoicing, cash receipts, purchasing, accounts payable/receivable, fixed assets, and payroll; performing end-of-period and end-of-year closing operations; and generating financial reports. PREREQ: BUSTEC 252.

BUSTEC 257 PAYROLL ACCOUNTING (2-3-3)(F/S). Comprehensive coverage of payroll operations and reporting. Provides practice in calculation of payroll and payroll taxes and preparation of records and reports that form the foundation of an efficient payroll system. PREREQ: BUSTEC 151.

BUSTEC 261 INTEGRATED MICROCOMPUTER APPLICATIONS (1-5-3)(F/S). Explores software applications in the graphical operating environment including basic concepts and features, multi-tasking, and data transfer. Expands knowledge of microcomputer applications used in typical business information systems with emphasis on problem-solving. PREREQ: BUSTEC 110 and BUSTEC 161.

BUSTEC 267 DESKTOP PUBLISHING (1-5-3)(F/S). Develops skill in professional document preparation using specialized software. Presents layout and design concepts and software functions applied to business documents such as flyers, brochures, newsletters, forms, and presentation media. PREREQ: BUSTEC 261 or MRKTEC 250 or PERM/INST.

BUSTEC 271 LEGAL TERMINOLOGY AND TRANSCRIPTION (1-5-3)(F/S). Introduction to legal vocabulary, including Latin terms, and transcription of dictated legal documents. Emphasis on producing high-quality work. PREREQ: BUSTEC 135.

BUSTEC 273 LEGAL OFFICE TECHNOLOGY I (3-2-3)(F/S). Introduction to basic procedures in the legal office including legal document preparation, records management, use of law library, and an overview of court systems and administrative agencies. Emphasis on legal ethics and responsibilities of a legal office professional.

BUSTEC 274 LEGAL OFFICE TECHNOLOGY II (3-2-3)(F/S). Advanced legal office procedures required for civil and criminal litigation, business organizations, contracts, real estate, bankruptcy, and wills/estates. Emphasis on understanding legal systems and processes. PREREQ: BUSTEC 271, BUSTEC 273.

BUSTEC 277 LEGAL DOCUMENTATION (2-3-3)(F/S). Provides experience in preparing legal documents associated with areas of substantive law introduced in BUSTEC 274. Emphasis on use of legal references, records management, and problem-solving techniques in a legal office. PREREQ: BUSTEC 271, BUSTEC 273.

BUSTEC 285 ADMINISTRATIVE OFFICE SYSTEMS (2-3-3)(F/S). Provides a capstone training experience as students develop advanced skills in computer applications, telecommunications, records management, and other administrative support functions. Skills reinforced through simulated office activities. Emphasis on efficiency, decision-making, and high-quality work. PREREQ: BUSTEC 211, BUSTEC 261.

BUSTEC 293 BUSINESS TECHNOLOGY INTERNSHIP (0-10-3)(F/S). Application of technical knowledge and skills in community business and office settings to gain practical work experience. Individual contract arrangement involving student, instructor and employer; monitored and evaluated by appropriate faculty in consultation with training site supervisor. PREREQ: Permission of internship coordinator.

Marketing/Management Technology

Instructor: Haislip.

Degrees Offered

- T.C., A.T.C., A.A.S., and B.A.S. in Marketing/Management Technology

Program Statement

The Marketing/Management Technology program prepares students for supervisory positions in retail, finance, or service-oriented businesses or for ownership of a small business. Students develop strong basic skills, technical skills, and an understanding of the business environment.

After completing the program, students will possess skills in selling, retail operations, marketing and promotion strategies, supervision and management principles and techniques, computer applications, and written and oral communication. Emphasis is placed on developing problem-solving and decision-making abilities in addition to technical skills.

As a complement to their technical education, students complete a supervised internship in a local business. This experience enables them to apply marketing and management skills learned in the classroom to on-the-job business situations, expand their perceptions of the work environment, and gain practical experience.

Degree Requirements

Marketing/Management Technology Technical Certificate	
Course Number and Title	**Credits**
APPACAD 138 Applied Business Math APPACAD 180 Human Relations at Work	3 2
BUSTEC 118 Career Development BUSTEC 133 Business English BUSTEC 161 Introduction to Microcomputers	2 3 3
Communication course chosen from APPACAD 111 or COMM 101	3
MRKTEC 104 Leadership Development MRKTEC 121 Business Concepts MRKTEC 125 Introduction to Marketing MRKTEC 167 Microcomputer Applications for Business MRKTEC 203 Principles of Promotion MRKTEC 257 Principles of Management	2 3 3 3 3 3
Total	33

Marketing/Management Technology Advanced Technical Certificate	
Course Number and Title	**Credits**
Successful completion of Marketing/Management Technology technical certificate	33
BUSTEC 151 Applied Accounting I BUSTEC 231 Applied Business Communication BUSTEC 267 Desktop Publishing	3 3 3
MRKTEC 212 Integrated Marketing Communications MRKTEC 240 Principles of Selling MRKTEC 243 Marketing Applications MRKTEC 262 Small Business Management MRKTEC 293 Marketing/Management Internship	3 3 3 3 3
Total	57

Marketing/Management Technology Associate of Applied Science	
Course Number and Title	**Credits**
Successful completion of Marketing/Management Technology advanced technical certificate except communication course	54
ENGL 101 English Composition **AND** ENGL 102 **OR** COMM 101 **OR** APPACAD 111 Area I or II core course in any field Area III core course in mathematics Area I, II, or III core course in any field 16 credits chosen from above. Please refer to the A.A.S. requirements in Chapter 10 for explanation.	3 3 3 3-5 3-4
Total	70

Course Offerings

See page 65 for a definition of the course-numbering system.

MRKTEC — MARKETING/MANAGEMENT TECHNOLOGY

MRKTEC 104 LEADERSHIP DEVELOPMENT (2-0-2)(F/S). Emphasis on skills and attitudes necessary to develop leadership potential.

MRKTEC 105 LEADERSHIP ACTIVITIES (1-0-1)(F/S). Application of leadership skills through involvement in Delta Epsilon Chi student organization activities. Includes participation in business-oriented community/campus projects and state/national leadership conference/competition. Course may be repeated for credit.

MRKTEC 121 BUSINESS CONCEPTS (3-0-3)(F/S). Introduction to current management and marketing practices in business enterprises. Develops an understanding of the role and functions of the small business in today's local and national economy.

MRKTEC 125 INTRODUCTION TO MARKETING (3-0-3)(F/S). Marketing concepts, consumer demand and behavior, location analysis, marketing functions, institutions, channels, prices, and international marketing. Situational analysis, market research techniques, and marketing strategies are applied to develop a marketing plan for an organization.

MRKTEC 167 MICROCOMPUTER APPLICATIONS FOR BUSINESS (2-3-3)(F/S). Develops skill in using microcomputer applications for business problem-solving, decision-making, and information management. Includes word processing, spreadsheet and database applications, electronic presentations, and an introduction to web page development. PREREQ: BUSTEC 161.

MRKTEC 203 PRINCIPLES OF PROMOTION (3-0-3)(F/S). Introduction to integrated marketing communications elements, including advertising, direct response, sales promotion and public relations and their functions in today's communication environment. Explores research, media and message elements involved in the creation of a campaign, governmental regulations, and social and economic considerations.

MRKTEC 212 INTEGRATED MARKETING COMMUNICATIONS (3-0-3)(F/S). Application of business, research, media and creative principles used in the formulation of persuasive messages to solve marketing communications problems and develop integrated campaigns. Projects include advertising, public relations, and sales promotion cases. PREREQ: MRKTEC 203.

MRKTEC 240 PRINCIPLES OF SELLING (3-0-3)(F/S). The role of influence and persuasion in professional selling and other organizational settings. Students practice sales skills, apply selling theory and examine consumer buying behavior, negotiation, communication, customer-service and sales management. Emphasis is on ethical sales strategies.

MRKTEC 243 MARKETING APPLICATIONS (3-0-3)(F/S). Analysis and management of customer satisfaction in goods and services markets by profit and nonprofit organizations. Emphasis is on the strategies and interaction of various marketing alternatives available to all types of organizations. Case-based and project approach to studying marketing management. PREREQ: MRKTEC 125.

MRKTEC 257 PRINCIPLES OF MANAGEMENT (3-0-3)(F/S). Introduction to the basic management functions of planning, organizing, staffing, directing, and controlling. Focus on practical applications of job design and analysis, employee training and development, motivation, leadership, negotiation, improving team performance and productivity, and creative problem-solving as they relate to retail, service, and wholesale fields.

MRKTEC 262 SMALL BUSINESS MANAGEMENT (3-0-3)(F/S). Concepts of planning, organizing, and managing a small business enterprise with emphasis on the procedures and regulations that influence success. Includes an overview of entrepreneurship and the essential factors for launching a new venture including the business plan, legal requirements, and financing.

MRKTEC 293 MARKETING/MANAGEMENT INTERNSHIP (0-10-3)(F/S). Cooperative work experience for students in the Marketing/Management Technology program. Provides opportunity to apply marketing and management skills learned in the classroom to on-the-job experiences in retail, wholesale, or service businesses. Students follow a training plan and are evaluated by both the employer and the internship coordinator. Maximum of 6 credits internship allowed, including 3 elective credits.

Office Occupations

Instructors: Gunner, Holcomb.

Degree Offered

- P.T.C. in Office Occupations

Program Statement

The Office Occupations program is designed to provide the basic knowledge and skills necessary for graduates to gain entry-level employment in the clerical field in a short period of time. Students in the program develop general office and technical skills while refining job search and interviewing techniques. Work attitudes and ethics are cultivated to ensure successful employment. The program is competency-based, which requires that the student perform the skills and objectives of the program as required for employment at entry level.

Students choosing to continue their education may transfer Office Occupations program credits into the Business Technology program's technical certificates or A.A.S. degrees.

Degree Requirements

Office Occupations Postsecondary Technical Certificate	
Course Number and Title	**Credits**
OFFOCC 112 Office Procedures	2
OFFOCC 115 Job Readiness	2
OFFOCC 131 Business English	3
OFFOCC 141 Business Math/10-Key Operations	3
OFFOCC 160 Intro to Computers and Software	1
OFFOCC 161 Spreadsheet Software	2
OFFOCC 162 Word Processing	3
OFFOCC 165 Database Software	2
Total	18

Course Offerings

See page 65 for a definition of the course-numbering system.

OFFOCC — OFFICE OCCUPATIONS

OFFOCC 112 OFFICE PROCEDURES (1-2-2)(F/S). Introduction to the role of the office professional in the modern office environment. Develops skills in telephone communication, mail handling procedures, organization and time management, records management, meeting and travel planning, and other administrative support responsibilities.

OFFOCC 115 JOB READINESS (1-2-2)(F/S). Preparation for successfully competing in today's job market. Emphasizes self-analysis, job search strategy, preparing a professional portfolio, interviewing skills, and interpersonal relations in the workplace.

OFFOCC 131 BUSINESS ENGLISH (2-3-3)(F/S). Comprehensive review of English skills with emphasis on correct grammar usage, sentence structure, word usage, punctuation, spelling, and vocabulary. Provides strong foundation for effective communication in business.

OFFOCC 141 BUSINESS MATH/10-KEY OPERATIONS (2-3-3)(F/S). Introduction to business math applications as used in accounting, management, and retailing. Functions of the electronic calculator are introduced along with correct fingering for efficient use of the electronic calculator in business applications.

OFFOCC 160 INTRO TO COMPUTERS AND SOFTWARE (0-2-1)(F/S). Introduction to computer components and terminology, the Windows environment, and survey of current productivity software.

OFFOCC 161 SPREADSHEET SOFTWARE (1-2-2)(F/S). Concepts and applications of electronic spreadsheets. Includes creating and modifying worksheets, designing and printing charts/graphs, and using spreadsheet functions for business decision-making. Eight week course.

OFFOCC 162 WORD PROCESSING (1-4-3)(F/S). Alphabetic and numeric computer keyboard and basic keyboarding techniques. Formatting basic business documents including correspondence, reports, and tables using word processing features and functions. Emphasis on mailability, keyboarding speed, and accuracy.

OFFOCC 165 DATABASE SOFTWARE (1-2-2)(F/S). Concepts and applications of electronic database management. Includes creating, modifying, and querying databases and generating reports commonly used in business. Eight week course.

Professional Truck Driving Program — See Idaho Professional Driver Training Program

Information Technology
Computer Network Technology

Degrees Offered

- T.C. in Network Technician
- A.T.C., A.A.S., and B.A.S. in Computer Network Technology

Program Statement

The Computer Network Technology program prepares technicians to design, build, implement, and maintain small- to medium-sized computer network systems. Participants develop entry-level technical skills in hardware and software implementation, local and wide area networking, network administration, and the troubleshooting of common problems associated with network operating systems.

Degree Requirements

Network Technician Technical Certificate	
Course Number and Title	**Credits**
APPACAD 111 Applied Communications	3
APPACAD 139 Applied Algebra & Trigonometry	4
APPACAD 180 Human Relations at Work	2
CNET 101 Operating System Basics	4
CNET 121 Computer Networking I	4
CNET 125 Computer Networking II	4
CNET 205 Network Operating Systems I	4
CNET 220 Network Operating Systems II	4
CNET 240 Network Infrastructure Support	4
Total	33

Computer Network Technology Advanced Technical Certificate	
Course Number and Title	**Credits**
Successful completion of Network Technician technical certificate	33
CNET 255 Designing Directory Services	4
CNET 266 Network Applications Support	4
CNET 270 End-User Support	1
CNET 272 Technical Career Exploration	1
CNET 280 Database Principles	4
CNET 282 Networking Technology I	4
CNET 284 Networking Technology II	4
CNET 286 Enterprise Security	4
Total	59

Computer Network Technology Associate of Applied Science	
Course Number and Title	**Credits**
Successful completion of Computer Network Technology advanced technical certificate except APPACAD 111, APPACAD 139, and APPACAD 180	50
ENGL 101 English Composition **AND** ENGL 102 **OR** COMM 101 **OR** APPACAD 111 Area I or II core course in any field Area III core course in mathematics Area I, II, or III core course in any field 16 credits chosen from above. Please refer to the A.A.S. requirements in Chapter 10 for explanation.	3 3 3 3-5 3-4
Total	66

Course Offerings

See page 65 for a definition of the course-numbering system.

CNET — COMPUTER NETWORK TECHNOLOGY

CNET 101 OPERATING SYSTEM BASICS (3-3-4)(F/S). Hard disk management skills, batch file creation, system configuration, installation of operating systems and application software, advanced use and configuration of graphical user interfaces.

CNET 121 COMPUTER NETWORKING I (2-4-4)(F/S). OSI reference model; network addressing; subnetting; TCP/IP network-layer protocols; LAN media and topology; networking devices, tools, meters, and connector types. PRE/COREQ: CNET 101.

CNET 125 COMPUTER NETWORKING II (2-4-4)(F/S). Routing theory, components, and protocols; router setup and startup; router configuration, control, and backup procedures. Includes building and troubleshooting simple LANs. PRE/COREQ: CNET 121.

CNET 205 NETWORK OPERATING SYSTEMS I (3-3-4)(F/S). Planning, installing, and configuring network servers and clients in a server environment. Protocols, sharing, policies, migration, optimization, architectural, and administration issues. PRE/COREQ: CNET 125.

CNET 220 NETWORK OPERATING SYSTEMS II (3-3-4)(F/S). UNIX or Linux operating system administration. PRE/COREQ: CNET 205.

CNET 240 NETWORK INFRASTRUCTURE SUPPORT (3-3-4)(F/S). Implementation of various protocols including IPX/SPX and TCP/IP. Host name resolution methods including DNS and WINS. Support of DHCP, NAT, and RAS. PRE/COREQ: CNET 205.

CNET 255 DESIGNING DIRECTORY SERVICES (3-3-4)(F/S). Design and support of network systems in a directory services environment. PRE/COREQ: CNET 240.

CNET 266 NETWORK APPLICATIONS SUPPORT (3-3-4)(F/S). Planning application deployment and upgrading in an enterprise environment. Installation technologies, desktop standardization, roaming user support, and Web technology integration at the desktop. PRE/COREQ: CNET 205.

CNET 270 END-USER SUPPORT (1-0-1)(F/S). Effective communication with and support of nontechnical end-users.

CNET 272 TECHNICAL CAREER EXPLORATION (1-0-1)(F/S). Industry research and liaison activities including technical employment interviewing strategies. PRE/COREQ: CNET 270.

CNET 280 DATABASE PRINCIPLES (3-3-4)(F/S). Designing, scripting, installing, configuring, administering, and troubleshooting of an SQL-based client-server database management system. PRE/COREQ: CNET 240.

CNET 282 NETWORKING TECHNOLOGY I (2-4-4)(F/S). Introduction to LAN design and segmentation, LAN switching, VLANs, dynamic routing protocol, router configuration, and Ethernet and IPX addressing. Includes hands-on troubleshooting of network design and analysis of networking equipment configuration. PRE/COREQ: CNET 255.

CNET 284 NETWORKING TECHNOLOGY II (2-4-4)(F/S). Introduction to WAN concepts and technologies, PPP process, ISDN technology, Frame Relay sub interfaces, ACLs, and network management. Includes hands on experimentation and troubleshooting of network devices. PRE/COREQ: CNET 282.

CNET 286 ENTERPRISE SECURITY (3-3-4)(F/S). Security issues relating to the directory, including design, management, groups, and auditing; security of file and print servers; assessing an organization's security needs and developing an implementation plan. Emphasis on group policy design and implementation. PRE/COREQ: CNET 280.

CNET 293 COMPUTER NETWORK TECHNICIAN INTERNSHIP II (0-45-1). A supervised work internship conducted at an approved work site. Course may be repeated for credit.

Computer Service Technology

Instructors: Anderson, Dunbar, Wood.

Degrees Offered

- T.C. in Computer Peripheral Service
- T.C. in PC/LAN Specialist
- A.T.C., A.A.S., and B.A.S. in Computer Network Technology

Program Statement

The Computer Service Technology program prepares technicians to work in a variety of computer and peripheral service-related fields including laser printer repair, computer service and support, technical customer support, network service and design, and electromechanical service where mechanics, electronics, and computer control knowledge are required. This unique program provides theory instruction supported by hands-on labs where students develop entry-level skills required by the computer and peripheral service industry.

Degree Requirements

Computer Peripheral Service Technical Certificate

Course Number and Title	Credits
APPACAD 111 Applied Communication	3
APPACAD 136 Applied Technical Math	3
APPACAD 180 Human Relations at Work	2
BUSTEC 161 Intro to Microcomputers **OR** ITM 104-ITM 105-ITM 106 Computer Applications	3
CST 102 Technical Basics	5
CST 111 Computer Peripheral Electronics	4
CST 120 Introduction to Electromechanical Service	4
CST 130 Computer Peripheral Communication Electronics	4
CST 140 Advanced Printer Hardware Service	4
CST 150 Introduction to PC and Macintosh	4
CST 160 Customer Support	1
Total	37

PC/LAN Specialist Technical Certificate

Course Number and Title	Credits
APPACAD 111 Applied Communications	3
APPACAD 136 Applied Technical Math	3
APPACAD 180 Human Relations at Work	2
BUSTEC 161 Introduction to Microcomputers **OR** ITM 104-ITM 105-ITM 106 Computer Applications	3
CST 205 Computer Hardware Technology	4
CST 210 Computer Software Technology	4
CST 215 PC Troubleshooting and Support	3
CST 218 Introduction to Telephony	1
CST 220 Technical Career Exploration	1
CST 225 Principles of Network Technologies	3
CST 230 Advanced Network Technologies	5
CST 235 Applications of Office Productivity	2
CST 240 Client Network Support	2
CST 245 Advanced Technical Support	1
Total	37

Computer Service Technology Advanced Technical Certificate	
Course Number and Title	**Credits**
Successful completion of Computer Peripheral Service technical certificate.	37
Successful completion of Computer Service Technology PC/ LAN Specialist technical certificate except APPACAD 111, APPACAD 136, APPACAD 180, and BUSTEC 161	26
Total	64

Computer Service Technology Associate of Applied Science	
Course Number and Title	**Credits**
Successful completion of Computer Service Technology advanced technical certificate except APPACAD 111, APPACAD 136, APPACAD 180, and BUSTEC 161	52
ENGL 101 English Composition **AND** ENGL 102 **OR** COMM 101 **OR** APPACAD 111 Area I or II core course in any field Area III core course in mathematics Area I, II, or III core course in any field 16 credits chosen from above. Please refer to the A.A.S. requirements in Chapter 10 for explanation.	3 3 3 3-5 3-4
Total	68

Course Offerings

See page 65 for a definition of the course-numbering system.

CST — COMPUTER SERVICE TECHNOLOGY

CST 102 TECHNICAL BASICS (4-3-5)(F/S). Field service call procedures; position descriptions; mechanical understanding of drive systems and motors; adjustments; soldering techniques; and electricity with training in metric prefixes, binary numbers, and technical color code systems.

CST 111 COMPUTER PERIPHERAL ELECTRONICS (3-3-4)(F/S). Electronic safety, DC/ AC circuit applications for electromechanical devices, meter use, and wiring/timing diagram applications. PRE/COREQ: CST 102.

CST 120 INTRODUCTION TO ELECTROMECHANICAL SERVICE (3-3-4)(F/S). Mechanical components and the interaction between processes. Includes drive systems, mechanical adjustments, and component identification. Develops troubleshooting skills through lab mock-up equipment and actual service call experience. PRE/COREQ: CST 111.

CST 130 COMPUTER/PERIPHERAL COMMUNICATION ELECTRONICS (3-3-4)(F/S). Electrostatic static discharge, communication transfer between devices, digital and microprocessor function, including chip sets and input/output devices. PRE/COREQ: CST 120.

CST 140 ADVANCED PRINTER HARDWARE SERVICE (3-3-4)(F/S). Desktop and network printing devices including interfacing techniques, printer language, drivers, utilities, and fonts. PRE/COREQ: CST 130.

CST 150 INTRODUCTION TO PC AND MACINTOSH (3-3-4)(F/S). Industry computer language, PC/Mac hardware, monitors, hardware for operating system and application software, and security and data recovery techniques. PRE/COREQ: CST 140.

CST 160 CUSTOMER SUPPORT (1-0-1)(F/S). Customer technical support, technical marketing techniques, and customer relations. PRE/COREQ: CST 102.

CST 205 COMPUTER HARDWARE TECHNOLOGY (3-3-4)(F/S). Overview of the role hardware plays in computer dynamics. Hands-on training in hardware identification, installation, and upgrading. Students will build a personal computer and study hardware troubleshooting techniques. PRE/COREQ: CST 150.

CST 210 COMPUTER SOFTWARE TECHNOLOGY (3-3-4)(F/S). Multiple PC platforms including DOS, Windows 9x, Windows 2000, and Windows XP. Students will install, upgrade, and support each operating system. PRE/COREQ: CST 205.

CST 215 PC TROUBLESHOOTING AND SUPPORT (2-3-3)(F/S). Develops knowledge and skills for troubleshooting PC hardware and software in the user support industry. Course uses a hands-on approach to critical problem solving and communication skills. PRE/COREQ: CST 210.

CST 218 INTRODUCTION TO TELEPHONY (1-0-1)(F/S). Survey of voice transmission over Internet protocols and the growing industry relationship between telephone systems and computer networking. PRE/COREQ: CST 210.

CST 220 TECHNICAL CAREER EXPLORATION (1-0-1)(F/S). Industry research and liaison activities including technical employment interviewing strategies. PRE/COREQ: CST 160.

CST 225 PRINCIPLES OF NETWORK TECHNOLOGIES (2-3-3)(F/S). Basic concepts of network design, connectivity, and implementation including WAN protocols, data structure, network printing, back-up protocols, and fault tolerance. PRE/COREQ: CST 215.

CST 230 ADVANCED NETWORK TECHNOLOGIES (4-3-5)(F/S). Office connectivity, LAN and WAN protocols, MAC layer switching, routing fundamentals, client-server architecture, and supporting printers in an enterprise environment. Includes overview of wireless technology. PRE/COREQ: CST 225.

CST 235 APPLICATIONS OF OFFICE PRODUCTIVITY (2-0-2)(F/S). Deploying and maintaining office applications. Fundamentals of supporting office applications in a networked environment, including service pack application, upgrades, licensing, and remote installations. PRE/COREQ: CST 230.

CST 240 CLIENT NETWORK SUPPORT (2-0-2)(F/S). Support of client computers in a mixed operating system environment, shared file access, client deployment, and advanced printing administration. PRE/COREQ: CST 230.

CST 245 ADVANCED TECHNICAL SUPPORT (0-3-1)(F/S). Hands-on training to support computer and printer product repair. PRE/COREQ: CST 215.

CST 271 NETWORKING III (6-0-3)(F/S). Theory course aimed at analyzing network equipment, LAN design goals methodology, design issues, dynamic routing protocol, configure router Ethernet and IPX addresses. First 8 weeks. COREQ: CST 272.

CST 272 NETWORKING III LAB (0-12-3)(F/S). Experiments and troubleshooting exercises in analyzing network equipment configuration and design aimed at the processes learned in CST 271. First 8 weeks. COREQ: CST 271.

CST 274 NETWORKING TECHNOLOGY (6-0-3)(F/S). Study of the benefit of a network layered system, and gain knowledge of each layers' network function. Examination of components of ISDN and how they work. Student will gain knowledge on how to configure Frame Relay subinterfaces and other network devices. Second 8 weeks. COREQ: CST 275.

CST 275 NETWORKING TECHNOLOGY LAB (0-12-3)(F/S). Experiment and trouble-shooting involving network components learned in CST 274. Second 8 weeks. COREQ: CST 274.

Child Care and Development

Instructors: Britton, Noonan, Shockley.

Degrees Offered

- P.T.C., T.C., A.T.C, A.A.S., and B.A.S. in Child Care and Development

Program Statement

The Child Care and Development program provides entry- and advanced-level courses for individuals interested in providing quality care and educational services to children from birth to age eight. Classes and practical experience prepare students for teaching and supervisory roles in early care and education programs. Courses emphasize curriculum development and planning, health and safety, assessment of children's growth, program management, and parent communication. Field experiences with young children in a variety of programs on campus and in the community connect theory with practice. General education electives assure that students have a well-rounded education that supports early education practices.

Degree Requirements

Child Care and Development Postsecondary Technical Certificate	
Course Number and Title	**Credits**
CHLDCR 100 Orientation to Child Care and Early Education CHLDCR 101 Child Development and Guidance CHLDCR 105 Teaching Young Children I CHLDCR 141 Health, Safety and Nutrition for Children CHLDCR 171 Curriculum of the Young Child CHLDCR 183 Professional Development in Child Care & Early Education CHLDCR 184 Parent Involvement in Child Care & Early Education	2 2 4 3 3 1 2
Total	17
Successful completion of coursework fulfills the formal child care education requirement of Child Development Associate. Contact program head for additional requirements for CDA credentials.	

Child Care and Development Technical Certificate	
Course Number and Title	**Credits**
APPACAD 120 Basic Math Applications	1
APPACAD 180 Human Relations at Work	2
CHLDCR 100 Orientation to Child Care and Early Education	2
CHLDCR 101 Child Development and Guidance	2
CHLDCR 102 Child Growth and Development	3
CHLDCR 105 Teaching Young Children I	4
CHLDCR 106 Teaching Young Children II	4
CHLDCR 141 Health, Safety and Nutrition for Children	3
CHLDCR 171 Curriculum of the Young Child	3
CHLDCR 173 Environments for Learning	4
CHLDCR 183 Professional Development in Child Care and Early Education	1
CHLDCR 184 Parent Involvement in Child Care and Early Education	2
Communication course chosen from APPACAD 111 or COMM 101	3
Total	34

Child Care and Development Advanced Technical Certificate	
Course Number and Title	**Credits**
Successful completion of Child Care and Development technical certificate	34
CHLDCR 203 Child Care Practicum	6
CHLDCR 232 Program Management in Child Care and Early Education	3
CHLDCR 257 Infant and Toddler Care and Education	4
CHLDCR 258 Programs for School Age Children	2
CHLDCR 220 Inclusion In Early Childhood Programs and elective to equal 3 credits **OR** MRKTEC 121 Business Concepts	3
Total	52

Child Care and Development Associate of Applied Science	
Course Number and Title	**Credits**
Successful completion of Child Care and Development technical certificate except APPACAD 120, APPACAD 180, and communication course	28
CHLDCR 203 Child Care Practicum	6
CHLDCR 232 Program Management in Child Care and Early Education	3
CHLDCR 257 Infant and Toddler Care and Education	4
CHLDCR 258 Programs for School Age Children	2
CHLDCR 220 Inclusion In Early Childhood Programs **OR** MRKTEC 121 Business Concepts	2-3
ENGL 101 English Composition **AND**	3
ENGL 102 **OR** COMM 101 **OR** APPACAD 111	3
Area I or II core course in any field	3
Area III core course in mathematics	3-5
Area I, II, or III core course in any field	3-4
16 credits chosen from above. Please refer to the A.A.S. requirements in Chapter 10 for explanation.	
Total	61-62

Course Offerings

See page 65 for a definition of the course-numbering system.

CHLDCR — CHILD CARE AND DEVELOPMENT

CHLDCR 100 ORIENTATION TO CHILD CARE AND EARLY EDUCATION (2-0-2)(F,S). Introduction to the field including teacher's role, program planning, creating healthy and safe environments, play and learning, developmentally appropriate practice, and communication with parents.

CHLDCR 101 CHILD DEVELOPMENT AND GUIDANCE (2-0-2)(F). Explores the interrelationship of developmental age/stage and the growth of self-control from birth to age eight. Models of positive guidance techniques for parents and caregivers will be studied. Resources for atypical child behavior will be presented.

CHLDCR 102 CHILD GROWTH AND DEVELOPMENT (3-0-3)(S). Principles of physical, cognitive, social and emotional growth from prenatal development through age eight. Study of theories and individual variations with application to care and learning in early care and education settings. Course will emphasize multicultural research in development.

CHLDCR 105 TEACHING YOUNG CHILDREN I (1-6-4)(F,S). Supervised laboratory experience. Students will function as learning area supervisors planning activities and guiding behavior. Includes various techniques for assessing development and learning. PREREQ: PERM/INST.

CHLDCR 106 TEACHING YOUNG CHILDREN II (1-6-4)(F,S). Advanced laboratory experience. Students will be lead teachers, supervising staff, planning program activities and communication with parents. Formal child assessments and parent conferences will be conducted. PREREQ: CHLDCR 105 and PERM/INST.

CHLDCR 141 HEALTH, SAFETY AND NUTRITION FOR CHILDREN (3-0-3)(F). Studies in health, safety and nutritional practices in group settings; accident and illness prevention; nutritional requirements and menu planning; and development of good health habits in children. Maintenance of caregiver's health included.

CHLDCR 171 CURRICULUM OF THE YOUNG CHILD (3-0-3)(F). Integrated curriculum approach to activities in art, literature, storytelling, music, dance, and dramatic play for young children in a multicultural and anti-bias context. PRE/COREQ: CHLDCR 100.

CHLDCR 173 ENVIRONMENTS FOR LEARNING (2-4-4)(S). Relationship of physical, emotional and social environment to learning. Focus on schedules, transitions, science, math, blocks, social studies and group time. Fieldwork included. PRE/COREQ: CHLDCR 100.

CHLDCR 183 PROFESSIONAL DEVELOPMENT IN CHILD CARE AND EARLY EDUCATION (1-0-1)(S). Professionalism and career opportunities in the field. Topics include developing a philosophy, code of ethics, decision-making, value clarification, professional organizations, and job seeking skills.

CHLDCR 184 PARENT INVOLVEMENT IN CHILD CARE AND EARLY EDUCATION (2-0-2)(S). Rationale and techniques for collaborative relationships with parents; how to access resources for families and programs. Emphasis on understanding and working with diverse families.

CHLDCR 203 CHILD CARE PRACTICUM (1-10-6)(F,S). Students assume responsibility for all aspects of curriculum planning, implementation, classroom management and parent communication under the supervision of head teacher and program instructor in a child care classroom in the community. Includes weekly seminar. PREREQ: CHLDCR 101, 102, 106, 141, 171, 173, 183, 184 and PERM/INST.

CHLDCR 220 INCLUSION IN EARLY CHILDHOOD PROGRAMS (2-0-2)(F). Identification of children from birth to age eight with special needs. Resources and models for early childhood special education in the community. Techniques for adapting materials and environments to support all children's development.

CHLDCR 232 PROGRAM MANAGEMENT IN CHILD CARE AND EARLY EDUCATION (3-0-3)(S). Establishing and operating a child care home, center or preschool, developing a business plan, budgeting, legal requirements, marketing, working with parents and staff, grouping children, and designing the environment. Emphasis on the interpersonal climate of the organization.

CHLDCR 257 INFANT AND TODDLER CARE AND EDUCATION (2-5-4)(S). Care and education of children from birth to age three in group settings. Emphasis on supporting the unique needs of very young children and their parents, developing appropriate policies, procedures, environments, and activities. Includes supervised fieldwork.

CHLDCR 258 PROGRAMS FOR SCHOOL AGE CHILDREN (2-0-2)(F). Examination of issues related to implementation and day-to-day operation of school age programs. Topics include developmental needs of school age children, appropriate environments, creative curriculum ideas, guidance techniques, and working with schools and parents. Includes fieldwork.

Core Block Courses

All 100-level Core Block (CORBLK) classes, or equivalent, must be completed prior to enrolling in the Automotive Technology, Heavy Duty Mechanics—Diesel, and Mechanical Welding Technician programs.

Course Offerings

See page 65 for a definition of the course-numbering system.

CORBLK — CORE BLOCK

CORBLK 110 AUTOMOTIVE/HD DIESEL SERVICE FUNDAMENTALS (4-0-4)(F/S). Principles of mechanics, including shop safety, tools and equipment, measuring, fasteners, service information, under hood maintenance, and under vehicle maintenance including tires, suspension, brakes, power train, and wheel bearings. Principles of electricity, electrical circuits, engine operation, and identification. COREQ: CORBLK 110L.

CORBLK 110L AUTOMOTIVE/HD DIESEL SERVICE FUNDAMENTALS LAB (0-6-2) (F/S). COREQ: CORBLK 110.

CORBLK 257 ELECTRO-MECHANICAL THEORY (4-1-4)(F). Theory and hands on experiments which assist understanding of DC circuits, Ohm's Law, magnetism, and properties of electronic components.

Culinary Arts

Instructors: Dever, Hickman, Kulm.

Degrees Offered

- P.T.C., T.C., A.T.C., A.A.S., and B.A.S. in Culinary Arts

Program Statement

The Culinary Arts program provides training for careers in the food service industry. The core of the Culinary Arts program is hands-on training backed by theory. The curriculum offers an opportunity to:

- Build a strong foundation in the basic concepts, methods, and chemistry of cooking.
- Develop both the artist and business person within each student.
- Apply sanitation, customer service, math, science, and nutrition principles.
- Gain experience in the proper use and maintenance of food-service equipment.
- Become familiar with the layout and work flow of professional kitchens and bakeshops.
- Gain industry experience through internship.

The program is fully accredited by the American Culinary Foundation Educational Institute. A.A.S. graduates are eligible to apply for ACF certification.

Degree Requirements

**Culinary Arts
Postsecondary Technical Certificate**

Course Number and Title	Credits
CULART 102 Culinary Foundations	4
CULART 103 Sanitation, Safety, and Health	2
CULART 106 Baking I	2
CULART 107 Dining Room	2
CULART 110 Bakery Lab I	1
CULART 111 Kitchen Lab I	2
CULART 112 Introductory Hot Foods	3
Total	16

**Culinary Arts
Technical Certificate**

Course Number and Title	Credits
Successful completion of Culinary Arts postsecondary technical certificate	16
APPACAD 111 Applied Communication	3
APPACAD 120 Basic Math Applications	1
APPACAD 180 Human Relations at Work	2
CULART 120 Bakery Lab II	2
CULART 121 Kitchen Lab II	2
CULART 122 Catering Lab	2
CULART 125 Center of the Plate	3
CULART 128 Global Cuisine	2
CULART 132 Nutrition for Foodservice	2
Total	35

**Culinary Arts
Advanced Technical Certificate**

Course Number and Title	Credits
Successful completion of Culinary Arts technical certificate	35
CULART 205 Business Operations	3
CULART 206 Patisserie	2
CULART 208 Beverage Management	2
CULART 209 Hospitality Purchasing	2
CULART 210 Bakery Lab III	2
CULART 211 Kitchen Lab III	3
CULART 216 Garde Manger	2
CULART 225 Formal Dinner Practical	1
Total	52

**Culinary Arts
Associate of Applied Science**

Course Number and Title	Credits
Successful completion of Culinary Arts advanced technical certificate except APPACAD 111, APPACAD 120, and APPACAD 180	46
CULART 293 Culinary Internship	3
ENGL 101 English Composition **AND**	3
ENGL 102 **OR** COMM 101 **OR** APPACAD 111	3
Area I or II core course in any field	3
Area III core course in mathematics	3-5
Area I, II, or III core course in any field	3-4
16 credits chosen from above. Please refer to the A.A.S. requirements in Chapter 10 for explanation.	
Total	65

Course Offerings

See page 65 for a definition of the course-numbering system.

CULART — CULINARY ARTS

CULART 102 CULINARY FOUNDATIONS (2-4-4)(F/S). Introduction to the food service industry including basic cooking methods, knife skills, and flavor dynamics. Fundamentals of breakfast cookery and pantry preparations.

CULART 103 SANITATION, SAFETY AND HEALTH (2-0-2)(F/S). Theory and practice of food and environmental sanitation in a food production area are stressed, with attention to food-related diseases and their origins. The sanitation course has been reviewed for compliance and approved by the Federal Food and Drug Administration. Students conduct a sanitation inspection of one of the Culinary Arts Program's facilities in their production areas.

CULART 106 BAKING I (1-2-2)(F/S). Fundamental principles of baking and working with a variety of dough and batters. The bread baking process: technology, ingredients, formula conversion, weights and measures, mixing methods and presentation.

CULART 107 DINING ROOM (1-3-2)(F/S). Front-of-the-house service techniques and procedures. Basic skills in table and banquet service, guest relations, and cash handling procedures. PRE/COREQ: CULART 103.

CULART 110 BAKERY LAB I (0-3-1)(F/S). Practical application of bakeshop orientation, sanitation, weights and measures, mixing methods, cookies, quick breads and yeast bread skills, techniques, and procedures. PRE/COREQ: CULART 103.

CULART 111 KITCHEN LAB I (0-6-2)(F/S). Hands-on experience to demonstrate kitchen sanitation, knife handling, pantry, basic cooking skills, techniques, and procedures. PRE/COREQ: CULART 103.

CULART 112 INTRODUCTORY HOT FOODS (2-3-3)(F/S). Fundamental technique of basic hot menu items such as soups, sauces, stocks, vegetables and entrees are demonstrated and/or practiced.

CULART 120 BAKERY LAB II (0-6-2)(F/S). Practical application of baking sanitation, organization, preparation, and presentation skills, techniques and procedures. Supervisory skills of training, planning, delegating, and maintaining records. PREREQ: CULART 106 and CULART 110.

CULART 121 KITCHEN LAB II (0-6-2)(F/S). Hands-on experience to demonstrate kitchen sanitation, knife handling, pantry, and basic cooking skills, techniques and procedures. Supervisor skills of training, planning, delegating, and maintaining records. PREREQ: CULART 111 and CULART 112.

CULART 122 CATERING LAB (0-4-2)(F/S). Back- and front-of-the-house experience in buffet service, platter presentation, catering logistics, and other catering skills. (Pass/Fail.) PREREQ: CULART 103, CULART 107, CULART 111, CULART 112.

CULART 125 CENTER OF THE PLATE (2-2-3)(F/S). Identification and fabrication of meat, poultry, and fish. Classification, grading, butcher yield test, storage, handling, composition, cooking principles, and techniques. PREREQ: CULART 103.

CULART 128 GLOBAL CUISINE (1-3-2)(F/S). Production and discussion of flavor principles, regional history, ingredient tasting, examination and use of equipment unique to specific cuisine. Impact on American regional cooking is a primary focus. PREREQ: CULART 103 and CULART 112.

CULART 132 NUTRITION FOR FOODSERVICE (1-2-2)(F/S). Basic understanding of nutrients, functions, methods to minimize nutrient loss, food labeling laws, dietary concerns, nutrient analysis, and recipe modification. PREREQ: CULART 103, CULART 112.

CULART 205 BUSINESS OPERATIONS (3-0-3)(F/S). Theory of hospitality operations: constructing and interpreting income statements, balance sheets, cash flow statements, and budget reports. Also includes successful business practices, menu engineering, marketing functions, and facility planning.

CULART 206 PATISSERIE (1-3-2)(F/S). Techniques to develop skills in advanced and complex preparations of pastry confections. Emphasis is on flavor, eye appeal, and technique. PREREQ: CULART 120.

CULART 208 BEVERAGE MANAGEMENT (2-0-2)(F/S). Theory of beverage service, principles of liquor management, production and classification of alcoholic beverages, liquor laws, pricing, pairing with food, and banquet and catering operations.

CULART 209 HOSPITALITY PURCHASING (1-2-2)(F/S). Product specification controls, par stocks, forecasting needs, receiving and storing functions essential in hospitality operations.

CULART 210 BAKERY LAB III (0-6-2)(F/S). Bakeshop sanitation, organization and plated dessert skills, techniques and procedures. Supervisory skills of training, planning, delegating, and maintaining records. PRE/COREQ: CULART 206.

CULART 211 KITCHEN LAB III (0-9-3)(F/S). Hands-on experience to demonstrate kitchen sanitation, garde manger, saucier, and a la carte cooking skills, techniques and procedures. Supervisory skills of training, planning, delegating, and maintaining records. PREREQ: CULART 121, CULART 125, and CULART 128.

CULART 216 GARDE MANGER (1-2-2)(F/S). Instruction, demonstration, and production of cold buffet food preparation and presentation techniques including garnishes, show pieces and centerpieces, and charcuterie items of forcemeats, pate, galantine, and aspic.

CULART 225 FORMAL DINNER PRACTICAL (0-3-1)(F/S). Students create a formal dinner from concept through implementation, demonstrating a culmination of skills learned in the program including purchasing, beverage paring, garde manger, front-of-the-house, baking, and execution of a multi-course meal. PRE/COREQ: CULART 205, CULART 208, CULART 209, CULART 211, and CULART 216.

CULART 293 CULINARY INTERNSHIP (0-10-3)(F/S). Supervised food service work experience in approved food establishments, analyze job and career-related performance, growth, and achievements of goals. PREREQ: Successful completion of culinary technical certificate.

Dental Assisting

Instructors: Beckman, Tollinger.

Degrees Offered

- T.C., A.A.S., and B.A.S. in Dental Assisting

Program Statement

The Dental Assisting curriculum includes theory and laboratory instruction, as well as clinical experiences in local dental offices. Entrance requirements are high school diploma or equivalency certificate, current Standard First Aid card, CPR card, and keyboarding skills. The program is accredited by the Commission on Dental Accreditation and is recognized by the Council on Postsecondary Accreditation and the United States Department of Education. Graduates are eligible to take the Dental Assisting National Board Certification Examination.

Degree Requirements

**Dental Assisting
Technical Certificate**

Course Number and Title	Credits
APPACAD 111 Applied Communication	3
APPACAD 120 Basic Math Applications	1
APPACAD 179 Job Seeking Skills	1
APPACAD 180 Human Relations at Work	2
DNTASST 100 Dental Assisting Anatomy	1
DNTASST 101 Dental Laboratory	5
DNTASST 102 Dental Laboratory	4
DNTASST 104 Dental Radiology	3
DNTASST 106 Dental Assisting Clinical Experience	6
DNTASST 108 Dental Office Management	2
DNTASST 109 Public Health and Dental Hygiene	1
DNTASST 151 Dental Theory I	5
DNTASST 152 Dental Theory II	5
Total	39

**Dental Assisting
Associate of Applied Science**

Course Number and Title	Credits
Successful completion of dental assisting technical certificate	39
DNTASST 225 Advanced Dental Assisting Practicum I	4
DNTASST 226 Advanced Dental Assisting Practicum II	4
ENGL 101 English Composition **AND**	3
ENGL 102 **OR** COMM 101 **OR** APPACAD 111	3
Area I or II core course in any field	3
Area III core course in mathematics	3-5
Area I, II, or III core course in any field	3-4
16 credits chosen from above. Please refer to the A.A.S. requirements in Chapter 10 for explanation.	
Total	63

Course Offerings

See page 65 for a definition of the course-numbering system.

DNTASST — DENTAL ASSISTING

DNTASST 100 DENTAL ASSISTING ANATOMY (1-0-1)(F/S). Overview of anatomy related to dental assisting.

DNTASST 101 DENTAL LABORATORY I (1-12-5)(F). Experience in handling dental materials, instruments, and chairside assisting.

DNTASST 102 DENTAL LABORATORY II (1-9-4)(S). Laboratory experience for clinical competency in chair-side skills and expanded dental assisting functions.

DNTASST 104 DENTAL RADIOGRAPHY (1-6-3)(F). Dental x-ray theory and procedures.

DNTASST 106 DENTAL ASSISTING CLINICAL EXPERIENCE (0-20-6)(S). Supervised experience in private dental offices and clinics.

DNTASST 108 DENTAL OFFICE MANAGEMENT (2-0-2)(F). Fundamentals of business practices related to dentistry.

DNTASST 109 PUBLIC HEALTH AND DENTAL HYGIENE (1-0-1)(F). Preventive dentistry and patient education.

DNTASST 151 DENTAL THEORY I (4-2-5)(F/S). Basic dental sciences and dental specialties.

DNTASST 152 DENTAL THEORY II (4-2-5)(F/S). Continuation of basic dental sciences and dental specialties.

DNTASST 225 ADVANCED DENTAL ASSISTING PRACTICUM (0-12-4)(F/S). Directed study emphasizing the practical application of advanced skills and theory relevant to dental assisting. This contracted practicum allows the student the opportunity to focus on areas of special interest. Documentation consistent with practicum will be required. (Pass/Fail.). PREREQ: PERM/CHAIR.

DNTASST 226 ADVANCED DENTAL ASSISTING PRACTICUM II (0-12-4)(F/S). Continuation of DNTASST 225. (Pass/Fail.) PREREQ: PERM/CHAIR.

Diesel Technology
Heavy Duty Truck Technician

Instructors: Beal, Huston, Rayburn.

Degrees Offered

- T.C., A.T.C., A.A.S., and B.A.S. in Heavy Duty Truck Technician

Program Statement

The Heavy Duty Truck Technician program covers the theory, service, diagnosis, and repair of medium and heavy-duty on-highway and off-highway trucks. Students are offered entry into the program at the beginning of the fall semester, depending on available seating as determined by the instructor.

The Heavy Duty Truck Technician program is a two-part program. The first part covers basic theory and repair procedures and emphasizes a hands-on approach with extensive training using aids and equipment. All courses are oriented toward high levels of technical understanding to support skills required for entry-level placement in heavy-duty truck technician job market. In addition to technical course training, related instruction courses enable students to develop interpersonal skills needed to advance within the heavy-duty truck technology service industry. Students completing the first year technical and related instruction courses will receive a technical certificate.

The second part includes advanced technical theory in the classroom along with "live" laboratory work. Diagnosis and repair procedures on customer equipment enables students to develop the skill levels required for advanced entry level placement in the heavy duty truck technology industry. Students completing the first and second parts of the program will receive an advanced technical certificate. While completing the advanced technical certificate students may choose to take the university core requirements for the associate of applied science degree.

Degree Requirements

**Heavy Duty Truck Technician
Technical Certificate**

Course Number and Title	Credits
APPACAD 111 Applied Communication	3
APPACAD 130 Mechanical Math	1
APPACAD 179 Job Seeking Skills	1
APPACAD 180 Human Relations at Work	2
HETEC 100 Shop Practices	4
HETEC 105 Electrical Systems	4
TTEC 110 Engines/Engine Controls	4
TTEC 120 Mobile Hydraulics/Braking Systems	4
TTEC 130 Drivetrains/Steering and Suspension	4
TTEC 140 Preventive Maintenance/HVAC	4
Total	31

**Heavy Duty Truck Technician
Advanced Technical Certificate**

Course Number and Title	Credits
Successful completion of Heavy Duty Truck Technician technical certificate	31
IPDT 106 Drive Skills Development	4
TTEC 220 Advanced Electrical Systems	4
TTEC 230 Advanced Engine/Engine Controls	4
TTEC 240 Advanced Drivetrain/Steering and Suspension	4
TTEC 250 Advanced Braking Systems	4
TTEC 260 Advanced Preventive Maintenance/HVAC	4
TTEC 280 Heavy Duty Truck Capstone	4
Total	59

**Heavy Duty Truck Technician
Associate of Applied Science**

Course Number and Title	Credits
Successful completion of Heavy Duty Truck Technician advanced technical certificate except APPACAD 111, APPACAD 130, APPACAD 179, and APPACAD 180	52
ENGL 101 English Composition **AND**	3
ENGL 102 **OR** COMM 101 **OR** APPACAD 111	3
Area I or II core course in any field	3
Area III core course in mathematics	3-5
Area I, II, or III core course in any field	3-4
16 credits chosen from above. Please refer to the A.A.S. requirements in Chapter 10 for explanation.	
Total	68

Course Offerings

See page 65 for a definition of the course-numbering system.

TTEC — TRUCK TECHNICIAN

TTEC 110 ENGINES/ENGINE CONTROLS (1-9-4)(F/S). Theory and operation of diesel engine systems. Basic service including disassembly and assembly procedures. PREREQ: HETEC 100.

TTEC 120 MOBILE HYDRAULICS/BRAKING SYSTEMS (1-9-4)(F/S). Fundamental principles and basic service of mobile hydraulic systems. Theory and maintenance of air and hydraulic brake systems. PREREQ: HETEC 100.

TTEC 130 DRIVETRAINS/STEERING AND SUSPENSION (1-9-4)(F/S). Introduction to power transmission devices including theory and maintenance procedures on clutches, transmissions, drivelines, and differentials. Steering, suspension and alignment theories, and maintenance procedures. PREREQ: HETEC 100.

TTEC 140 PREVENTIVE MAINTENANCE/HVAC (1-9-4)(F/S). Fundamentals of vehicle maintenance and vehicle pre-delivery inspection. Terminology, fundamental operating principles, and basic service techniques associated with mobile equipment HVAC systems. PREREQ: HETEC 100.

TTEC 220 ADVANCED ELECTRICAL SYSTEMS (1-9-4)(F/S). Advanced system theory with diagnostic procedures on simulators and actual equipment. PREREQ: HETEC 105.

TTEC 230 ADVANCED ENGINE/ENGINE CONTROLS (1-9-4)(F/S). Advanced system theory with diagnostic procedures on simulators and actual equipment. PREREQ: TTEC 110.

TTEC 240 ADVANCED DRIVETRAIN/STEERING AND SUSPENSION (1-9-4)(F/S). Advanced system theory with diagnostic procedures on simulators and actual equipment. PREREQ: TTEC 130.

TTEC 250 ADVANCED BRAKING SYSTEMS (1-9-4)(F/S). Advanced braking system theory and maintenance with diagnostic procedures on simulators and actual equipment. PREREQ: TTEC 120.

TTEC 260 ADVANCED PREVENTIVE MAINTENANCE/HVAC (1-9-4)(F/S). Preventive maintenance inspections on medium/heavy duty trucks. HVAC electrical control systems and system diagnostics. PREREQ: TTEC 140.

TTEC 280 HEAVY DUTY TRUCK CAPSTONE (0-12-4)(F/S). Supervised application of coursework. Capstone projects will be assigned by instructor and may take place within a lab or industrial setting. PREREQ: PERM/INST.

Heavy Equipment Technician

Instructors: Beal, Huston, Rayburn.

Degrees Offered

- T.C., A.T.C., A.A.S., and B.A.S. in Heavy Equipment Technician

Program Statement

The Heavy Equipment Technician program covers the theory, service, diagnosis, and repair of heavy equipment found in the agricultural and construction industries. Students are offered entry into the program at the beginning of the fall semester, depending on available seating as determined by the instructor.

The Heavy Equipment Technician program is a two-part program. The first part covers basic theory and repair procedures and emphasizes a hands-on approach with extensive training on functional training aids and equipment. All courses are oriented toward high levels of technical understanding to support skills required for entry-level placement in the heavy equipment technician job market. In addition to technical course training, related instruction courses enable students to develop interpersonal skills needed to advance within the heavy equipment technology service industry. Students completing the first year technical and related instruction courses will receive a technical certificate.

The second part includes advanced technical theory in the classroom along with "live" laboratory work. Diagnosis and repair procedures performed on customer equipment enable students to develop the skill levels required for advanced entry-level placement in the heavy equipment technology industry. Students completing the first and second parts of the program will receive an advanced technical certificate. While completing the Advanced Technical Certificate students may choose to take the university core requirements for the associate of applied science degree.

Degree Requirements

Heavy Equipment Technician Technical Certificate	
Course Number and Title	**Credits**
APPACAD 111 Applied Communication	3
APPACAD 130 Mechanical Math	1
APPACAD 179 Job Seeking Skills	1
APPACAD 180 Human Relations at Work	2
HETEC 100 Shop Practices	4
HETEC 105 Electrical Systems	4
HETEC 110 Engines/Engine Controls	4
HETEC 120 Mobile Hydraulic Systems	4
HETEC 130 Powertrains	4
HETEC 140 Preventive Maintenance/HVAC	4
Total	31

Heavy Equipment Technician Advanced Technical Certificate	
Course Number and Title	**Credits**
Successful completion of Heavy Equipment Technician technical certificate	31
HETEC 220 Advanced Electrical Systems	4
HETEC 230 Advanced Engines/Engine Controls	4
HETEC 240 Advanced Powertrain	4
HETEC 250 Advanced Hydraulic Systems	4
HETEC 260 Advanced Preventive Maintenance/HVAC	4
HETEC 280 Heavy Equipment Capstone	4
IPDT 106 Drive Skills Development	4
Total	59

Heavy Equipment Technician Associate of Applied Science	
Course Number and Title	**Credits**
Successful completion of Heavy Equipment Technician advanced technical certificate except APPACAD 111, APPACAD 130, APPACAD 179, and APPACAD 180	52
ENGL 101 English Composition **AND**	3
ENGL 102 **OR** COMM 101 **OR** APPACAD 111	3
Area I or II core course in any field	3
Area III core course in mathematics	3-5
Area I, II, or III core course in any field	3-4
16 credits chosen from above. Please refer to the A.A.S. requirements in Chapter 10 for explanation.	
Total	68

Course Offerings

See page 65 for a definition of the course-numbering system.

HETEC — HEAVY EQUIPMENT TECHNICIAN

HETEC 100 SHOP PRACTICES (1-9-4)(F/S). Theory and application of shop safety, tool and equipment usage, precision measuring, basic welding, and oxyacetylene skills.

HETEC 105 ELECTRICAL SYSTEMS (1-9-4)(F/S). Terminology, fundamental principles, and service of heavy duty electrical systems. Multimeters, wiring diagrams, batteries, starting, charging and lighting systems. PREREQ: HETEC 100.

HETEC 110 ENGINES/ENGINE CONTROLS (1-9-4)(F/S). Diesel engine principles including lubrication, cooling, intake and exhaust, engine controls, and fuel systems. PREREQ: HETEC 100.

HETEC 120 MOBILE HYDRAULIC SYSTEMS (1-9-4)(F/S). Terminology, fundamental principles, and basic service of mobile hydraulic systems. PREREQ: HETEC 100.

HETEC 130 POWERTRAINS (1-9-4)(F/S). Terminology, fundamental operating principles, and basic service techniques associated with heavy equipment powertrains. PREREQ: HETEC 100.

HETEC 140 PREVENTIVE MAINTENANCE/HVAC (1-9-4)(F/S). Vehicle and equipment maintenance, service procedures, vehicle and pre-delivery inspection. Terminology, fundamental operating principles, and basic service techniques associated with mobile equipment HVAC systems. PREREQ: HETEC 100.

HETEC 220 ADVANCED ELECTRICAL SYSTEMS (1-9-4)(F/S). Advanced theories, system testing, and troubleshooting on simulators and actual equipment. PREREQ: HETEC 105.

HETEC 230 ADVANCED ENGINES/ENGINE CONTROLS (1-9-4)(F/S). Advanced system theory with diagnostic procedures on simulators and actual equipment. PREREQ: HETEC 110.

HETEC 240 ADVANCED POWERTRAIN (1-9-4)(F/S). Advanced theories, component rebuild, and troubleshooting on simulators and actual equipment. PREREQ: HETEC 130.

HETEC 250 ADVANCED HYDRAULIC SYSTEMS (1-9-4)(F/S). Advanced theories, system testing, and troubleshooting on simulators and actual equipment. PREREQ: HETEC 120.

HETEC 260 ADVANCED PREVENTIVE MAINTENANCE/HVAC (1-9-4)(F/S). HVAC controls and troubleshooting techniques performed on simulators and actual equipment. PREREQ: HETEC 140.

HETEC 280 HEAVY EQUIPMENT CAPSTONE (0-12-4)(F/S). Supervised application of coursework. Capstone projects will be assigned by instructor and may take place within an industry or lab setting. PREREQ: PERM/INST.

Drafting Technology

Instructors: Benton, Marshall.

Degrees Offered

- T.C., A.T.C., A.A.S., and BAS in Drafting Technology

Program Statement

The Drafting Technology program is designed to prepare students to meet the employability demands of varying engineering, architectural, and manufacturing firms. Graduates from this program will be especially qualified as computer-assisted drafters who are able to solve basic design problems and provide engineering support.

Degree Requirements

**Drafting Technology
Technical Certificate**

Course Number and Title	Credits
APPACAD 111 Applied Communication	3
APPACAD 139 Applied Algebra and Trigonometry	4
APPACAD 179 Job Seeking Skills	1
APPACAD 180 Human Relations at Work	2
BUSTEC 161 Intro to Microcomputers	3
DRAFTEC 101 Machine Drafting	1
DRAFTEC 101L Machine Drafting Lab	2
DRAFTEC 102 Architectural Drafting	1
DRAFTEC 102L Architectural Drafting Lab	2
DRAFTEC 109 Fundamentals of Computer-Aided Drafting & Design	2
DRAFTEC 110 Advanced Computer-Aided Drafting & Design	2

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Drafting Technology, T.C. (continued)	
MFGTEC 100 Material and Process Manufacturing	3
MFGTEC 231 Technical Physics	4
Total	30

**Drafting Technology
Advanced Technical Certificate**

Course Number and Title	Credits
Successful completion of Drafting Technology technical certificate	30
DRAFTEC 201 Civil Drafting	2
DRAFTEC 201L Civil Drafting Lab	4
DRAFTEC 202 Structural Drafting	2
DRAFTEC 202L Structural Drafting Lab	3
DRAFTEC 209 Introduction to 3-Dimensional CAD	3
ELCTEC 105 Drafting Electronics	2
Two design electives selected from: DRAFTEC 203 Machine Drafting and Design DRAFTEC 204 Architectural Drafting and Design DRAFTEC 207 Civil Drafting and Design DRAFTEC 208 Structural Drafting and Design	8
Total	57

**Drafting Technology
Associate of Applied Science**

Course Number and Title	Credits
Successful completion of the Drafting Technology advanced technical certificate except APPACAD 111	54
ENGL 101 English Composition **AND**	3
ENGL 102 **OR** COMM 101 **OR** APPACAD 111	3
Area I or II core course in any field	3
Area III core course in mathematics	3-5
Area I, II, or III core course in any field 16 credits chosen from above. Please refer to the A.A.S. requirements in Chapter 10 for explanation.	3-4
Total	70

Course Offerings

See page 65 for a definition of the course-numbering system.

DRAFTEC — DRAFTING TECHNOLOGY

Lower Division

DRAFTEC 101 MACHINE DRAFTING (1-0-1)(F/S). Theory of projection, properties of points, lines, planes, solids, basic drafting applications, standards, methods, and manufacturing fits. COREQ: DRAFTEC 101L and DRAFTEC 109.

DRAFTEC 101L MACHINE DRAFTING LAB (0-6-2)(F/S). Lab to support DRAFTEC 101. COREQ: DRAFTEC 101.

DRAFTEC 102 ARCHITECTURAL DRAFTING (1-0-1)(F/S). Facility planning, codes and standards. PREREQ: DRAFTEC 101L. COREQ: DRAFTEC 102L AND DRAFTEC 110.

DRAFTEC 102L ARCHITECTURAL DRAFTING LAB (0-6-2)(F/S). Lab to support DRAFTEC 102. COREQ: DRAFTEC 102.

DRAFTEC 109 FUNDAMENTALS OF COMPUTER-AIDED DRAFTING AND DESIGN (2-1-2)(F/S). Introductory applications of computer graphics and production systems to industry standards. COREQ: DRAFTEC 101L.

DRAFTEC 110 ADVANCED COMPUTER-AIDED DRAFTING AND DESIGN (2-1-2)(F/S). Isometrics, paper space, attributes, attachments, X-referencing, and dimensioning. PREREQ: DRAFTEC 109. COREQ: DRAFTEC 102L.

DRAFTEC 201 CIVIL DRAFTING AND MATH (2-0-2)(F/S). Mapping applications to highway curves, traverse closures, and earthwork. PREREQ: DRAFTEC 110 and APPACAD 139. COREQ: DRAFTEC 201L.

DRAFTEC 201L CIVIL DRAFTING LAB (0-12-4)(F/S). Lab to support DRAFTEC 201. COREQ: DRAFTEC 201.

DRAFTEC 202 STRUCTURAL DRAFTING AND MATH (2-0-2)(F/S). AISC and ACI processes applied to steel structures and reinforced concrete. PREREQ: DRAFTEC 110 and APPACAD 139. COREQ: DRAFTEC 202L.

DRAFTEC 202L STRUCTURAL DRAFTING LAB (0-9-3)(F/S). Lab to support DRAFTEC 202. COREQ: DRAFTEC 202.

DRAFTEC 203 MACHINE DRAFTING AND DESIGN (2-6-4)(F/S). Design principles, materials, precision dimensioning and tolerancing, jigs, fixtures, and tools. PREREQ: DRAFTEC 110, MFGTEC 100, MFGTEC 231, and APPACAD 139.

DRAFTEC 204 ARCHITECTURAL DRAFTING AND DESIGN (2-6-4)(F/S). Design principles, code applications, materials, facilities planning and design. PREREQ: DRAFTEC 110, MFGTEC 100, and APPACAD 139.

DRAFTEC 207 CIVIL DRAFTING AND DESIGN (2-6-4)(F/S). Design projects relating to traverse, road and utilities, earthwork, subdivision layout. PREREQ: DRAFTEC 201L and APPACAD 139.

DRAFTEC 208 STRUCTURAL DRAFTING AND DESIGN (2-6-4)(F/S). Design calculations and detail of multifloor buildings. PREREQ: DRAFTEC 202L and APPACAD 139.

DRAFTEC 209 INTRODUCTION TO 3-DIMENSIONAL CAD (2-3-3)(F/S). 3-D wire frame drawing, surfaces, and introduction to solid modeling and rendering techniques. PREREQ: DRAFTEC 110.

DRAFTEC 243 ADVANCED MACHINE PROCESS (1-6-3)(F/S). Covers safety, the use of special attachments, bench work, layout, heat treating, hardness testing, layout inspection, and computer numerical control mill set-up, operation, and programming. PREREQ: DRAFTEC 101, DRAFTEC 110, MFGTEC 100.

Electrical Lineworker

Instructor: Cantrell.

Degrees Offered

- T.C. in Electrical Lineworker

Program Statement

Leading to a technical certificate, the Electrical Lineworker program provides students with the best and most complete basic preparation possible in overhead and underground construction and maintenance procedures. Focusing on a basic program of performance-based objectives, instructional materials, and field experiences, the program provides students with the skills and knowledge needed in this rapidly advancing field. The program is designed to produce a highly skilled, well-informed, entry-level lineworker who is familiar with the use of all tools, materials, and equipment of the trade. The areas of first aid, personal safety, and occupational safety are stressed as integral parts of each area of the craft. Students are required to obtain a class A commercial driver's license before graduation.

Degree Requirements

Electrical Lineworker Technical Certificate	
Course Number and Title	**Credits**
APPACAD 111 Applied Communication	3
APPACAD 136 Applied Technical Math	3
APPACAD 179 Job Seeking Skills	1
APPACAD 180 Human Relations at Work	2
ELLINE 101 Electrical Lineworker Laboratory	6
ELLINE 102 Electrical Lineworker Laboratory	6
ELLINE 151 Electrical Lineworker Basics	4
ELLINE 152 Electrical Lineworker Basics	4
ELLINE 161 Electrical Lineworker Systems Design/Construction	2
ELLINE 162 Electrical Lineworker Systems Design/Construction	2
Total	33

Course Offerings

See page 65 for a definition of the course-numbering system.

ELLINE — ELECTRICAL LINEWORKER

ELLINE 101 ELECTRICAL LINEWORKER LAB (1-15-6)(F). Live climbing experiences using ropes and rigging, pole setting and removal with suitable guys and anchors, installation of transformers, construction and maintenance of underground distribution networks, troubleshooting all systems (including hot stick care and use), and preventative maintenance on associate systems or equipment.

ELLINE 102 ELECTRICAL LINEWORKER LAB (1-15-6)(S). Advanced experience includes pole top and bucket rescue, OSHA 1910 safety training, installing ties with sticks, and 35-ton compression sleeves. PREREQ: ELLINE 101.

ELLINE 151 ELECTRICAL LINEWORKER BASICS (4-1-4)(F). Basics of electrical theory, power generation, materials identification and application, over-current and protective devices, related equipment application and personal/occupational safety.

ELLINE 152 ELECTRICAL LINEWORKER BASICS (4-1-4)(S). Basic operations and maintenance of electrical substation equipment, analysis of electrical equipment, and power systems standards. PREREQ: ELLINE 151.

ELLINE 161 ELECTRICAL LINEWORKER SYSTEMS DESIGN/CONSTRUCTION (2-1-2)(F). Electrical power systems, power systems designing and construction techniques, transformer theory, transformer design and their construction, and transmission networks.

ELLINE 162 ELECTRICAL LINEWORKER SYSTEMS DESIGN/CONSTRUCTION (2-1-2)(S). Advanced electrical power systems, power systems designing and construction techniques, transformer theory, transformer design and their construction, and transmission networks. Students will get experience on university field site or with a local employer. PREREQ: ELLINE 161.

Electronics Technology

Instructors: Dodson, Douglas, Dunn, Palagi, Stack.

Degrees Offered

- A.T.C., A.A.S., and B.A.S. in Electronics Technology

Program Statement

The Electronics Technology program prepares students for employment as entry-level electronic technicians. Students are prepared to work as individuals or as team members with scientists, engineers, and manufacturing or research specialists. Graduates of this program obtain broad-based experience in digital electronics systems, electronic communications systems, and electronic measurement and control systems.

Degree Requirements

Electronics Technology Advanced Technical Certificate	
Course Number and Title	**Credits**
APPACAD 139 Applied Algebra and Trigonometry	4
APPACAD 179 Job Seeking Skills	1
APPACAD 180 Human Relations at Work	2
APPACAD 221 Technical Writing	3
ITM 104 Operating Systems and Word Processing Topics	1
ITM 105 Spreadsheet Topics	1
ELCTEC 151 DC Electronic Theory	3
ELCTEC 151L DC Electronics Laboratory	2
ELCTEC 152 AC Electronic Theory	2
ELCTEC 152L AC Electronics Laboratory	2
ELCTEC 162 Intro to Digital Systems	3
ELCTEC 163 Intro to Digital Systems Lab	1
ELCTEC 172 Solid State Devices	3
ELCTEC 173 Solid State Devices Lab	3
ELCTEC 200 CET Certification	1
ELCTEC 201 Linear Systems Lab	1
ELCTEC 202 Telecommunications Systems Lab	1
ELCTEC 225 Programmable Logic Controllers	1
ELCTEC 226 Programmable Logic Controllers Lab	1
ELCTEC 231 Electronics Calculus	3
ELCTEC 241 Instrumentation	3
ELCTEC 242 Instrumentation Lab	1
ELCTEC 251 Linear Systems	3
ELCTEC 252 Telecommunications Systems	3
ELCTEC 264 Advanced Digital Systems	3
ELCTEC 265 Advanced Digital Systems Lab	1
ELCTEC 277 Microprocessor Systems	3
ELCTEC 277L Microprocessor Systems Lab	3
MACHTEC 100 Hand Tools	1
Total	60

Electronics Technology Associate of Applied Science	
Course Number and Title	**Credits**
Successful completion of Electronics Technology advanced technical certificate except APPACAD 179, APPACAD 180, and ELCTEC 231	54
ENGL 101 English Composition **AND** ENGL 102 **OR** COMM 101 **OR** APPACAD 111 Area I or II core course in any field Area III core course in mathematics (ELCTEC 231) Area I, II, or III core course in any field 16 credits chosen from the above. Please refer to the A.A.S. requirements in Chapter 10 for explanation.	3 3 3 3-5 3-4
Total	70

Course Offerings

See page 65 for a definition of the course-numbering system.

ELCTEC — ELECTRONIC TECHNOLOGY

ELCTEC 105 DRAFTING ELECTRONICS (2-0-2)(F/S). Basic electronics course in electronic symbols, electronic component identification, series and parallel circuit concepts, electronic measures, drafting and reading electronic schematics, and use of selected drafting software.

ELCTEC 151 DC ELECTRONICS THEORY (3-0-3)(F/S). Theory of direct current electricity and its behavior in DC circuits. Resistance, DC power and energy, DC voltage and current laws, DC circuit analysis, DC circuit calculations and interpretation. PRE/COREQ: APPACAD 139 or MATH 108.

ELCTEC 151L DC ELECTRONICS LABORATORY (0-6-2)(F/S). COREQ: ELCTEC 151.

ELCTEC 152 AC ELECTRONIC THEORY (2-0-2)(F/S). Theory of alternating current electricity, its behavior in AC circuits. Reactance and impedance, AC circuit analysis, resonance and tuned circuits, mutual inductance and transformers. PREREQ: ELCTEC 151. PRE/COREQ: APPACAD 139 or equivalent.

ELCTEC 152L AC ELECTRONICS LABORATORY (0-6-2)(F/S). COREQ: ELCTEC 152.

ELCTEC 162 INTRO TO DIGITAL SYSTEMS (3-0-3)(F/S). Introductory digital concepts, the binary and hexadecimal number systems, Boolean functions and operations, basic logic gates, and combinational logic. PREREQ: ELCTEC 152.

ELCTEC 163 INTRO TO DIGITAL SYSTEMS LAB (0-3-1)(F/S). Laboratory to complement ELCTEC 162. COREQ: ELCTEC 162.

ELCTEC 172 SOLID STATE DEVICES (3-0-3)(F/S). AC and DC properties of diodes and transistors. Bipolar and field effect transistor biasing and circuit implementation. Amplifier analysis and construction using transistor devices. PREREQ: ELCTEC 152.

ELCTEC 173 SOLID STATE DEVICES LAB (0-9-3)(F/S). Laboratory exercises dealing with solid state devices including diodes, bipolar and field effect transistors to complement ELCTEC 172. See ELCTEC 172 course description. COREQ: ELCTEC 172.

ELCTEC 200 CET CERTIFICATION (1-0-1)(F/S). Refresher course for electronics skills with content addressing the Associate Certified Electronics Technicians examination. (Pass/Fail.) PREREQ: ELCTEC 162 and ELCTEC 172 or PERM/INST.

ELCTEC 201 LINEAR SYSTEMS LAB (0-3-1)(F/S). Laboratory exercises dealing with linear amplification and signal processing circuits to complement ELCTEC 251. See ELCTEC 251 course description. COREQ: ELCTEC 251.

ELCTEC 202 TELECOMMUNICATIONS SYSTEM LAB (0-3-1)(F/S). Laboratory exercises dealing with radio frequency generation and measurements, communication signal processing circuits, and fiber optic systems to complement ELCTEC 252. See ELCTEC 252 course description. COREQ: ELCTEC 252.

ELCTEC 225 PROGRAMMABLE LOGIC CONTROLLERS (1-0-1)(F/S). Fundamental concepts of using Programmable Logic Controllers. PLC systems, input and output modules, PLC addressing schemes, and basic ladder logic programming. PREREQ: ELCTEC 162 or PERM/INST.

ELCTEC 226 PROGRAMMABLE LOGIC CONTROLLERS LAB (0-2-1)(F/S). Laboratory to complement ELCTEC 225. COREQ: ELCTEC 225.

ELCTEC 227 INDUSTRIAL CONTROL SYSTEMS (0-2-1)(F/S). Technology used in automated manufacturing environments. Includes project with guidelines and requires student self-study. Primary focus on designing team projects, programming PLC controllers, and construction and implementation of project. PRE/COREQ: ELCTEC 225.

ELCTEC 231 ELECTRONICS CALCULUS (3-0-3)(F/S). Differentiation and integration with electronic system applications. Use of electronic differentiation and integration in electronic control. This course can be used only by Electronics Technology majors to satisfy an Area III Core requirement for the Associate of Applied Science and/or the Bachelor of Applied Science degree requirements. PREREQ: APPACAD 139 or equivalent.

ELCTEC 241 INSTRUMENTATION (3-0-3)(F/S). Electronic measurement and control through the use of sensors, transducers, detectors and actuators. Open and closed loop control systems. Position, force, pressure, temperature, flow, level, light and radiation sensors. Signal conditioning and processing. PREREQ: ELCTEC 152 and ELCTEC 251.

ELCTEC 242 INSTRUMENTATION LAB (0-3-1)(F/S). Laboratory exercises with various sensors, electromechanical and measurement systems to complement ELCTEC 241. See ELCTEC 241 course description. COREQ: ELCTEC 241.

ELCTEC 251 LINEAR SYSTEMS (3-0-3)(F/S). Linear circuit signal amplification and processing using discrete and monolithic integrated circuits. Operational amplifier circuits including comparators, oscillators, active filters and instrumentation amplifiers. PREREQ: ELCTEC 152, ELCTEC 172.

ELCTEC 252 TELECOMMUNICATIONS SYSTEMS (3-0-3)(F/S). Radio and lightwave communications. Amplitude modulation, frequency modulation, pulse modulation, and video systems. PREREQ: ELCTEC 172 and ELCTEC 251 or PERM/INST.

ELCTEC 264 ADVANCED DIGITAL SYSTEMS (3-0-3)(F/S). Advanced study of digital devices and concepts. Includes flip-flops, counters, shift registers, memory devices, and electronic circuit interfacing methods. PREREQ: ELCTEC 162 or PERM/INST.

ELCTEC 265 ADVANCED DIGITAL SYSTEMS LAB (0-3-1)(F/S). Laboratory to complement ELCTEC 264. COREQ: ELCTEC 264.

ELCTEC 277 MICROPROCESSOR SYSTEMS (3-0-3)(F/S). Microprocessor/microcontroller functions and operations. Architecture, instruction sets, programming, and interfacing of microprocessors/microcontrollers to external devices. PREREQ: ELCTEC 251 and ELCTEC 264. COREQ: ELCTEC 278.

ELCTEC 277L MICROPROCESSOR SYSTEMS LAB (0-9-3)(F/S). Laboratory to complement ELCTEC 277. COREQ: ELCTEC 277.

ELCTEC 285 FIBER OPTICS TECHNOLOGY (1-0-1). Introduction to fiber optics systems and use of fiber optics in electronic instrumentation and communication. Course will cover basic fiber measurements and terminology, fiber optic end systems, fiber characteristics and handling.

ELCTEC 289 SPECIAL PROJECT (1-0-1)(F/S). An electronics project involving the planning, staging, and construction and testing of an electronic system. The project must be approved by the instructor. PREREQ: PERM/INST.

EXTENDED PROGRAMS OFFERINGS

The following offerings are not required in the Electronic Technology, A.A.S. degree program. These courses are designed for technical upgrading of individuals working in industry and are offered whenever sufficient enrollment exists.

ELCTEC 290 LASER SYSTEMS (3-0-3). Course in LASER mechanics and optics. Coherent light, monochromaticity and polarization. Diffraction, refraction and reflection. Types of LASER devices and principles of operation. Safety considerations and BRH ratings. Applications of LASER devices including precision positioning and gaging, interferometric distance measurements, diffraction pattern analysis, LASER welding and communications and holography. PERM/INST.

ELCTEC 295 INTRODUCTORY FIBER OPTIC SYSTEMS (3-0-3). Basic electronics overview including voltage, current and power. Introductory digital electronics overview including the binary number system, pulse code modulation, sampling, analog-to-digital and digital-to-analog conversions and data transmission. Optical fiber qualities and use. Electrical-to-optical and optical-to-electrical conversion. Time division multiplexing of signals. Course designed for nonelectronic technology majors.

ELCTEC 296 FIBER OPTIC SYSTEMS (3-0-3). Fiber optic systems for electronic technology majors. Properties of fiber material. Propagation of pulses in optical fiber, refraction laws and optical principles, propagation modes, temporal and chromatic dispersion, path loss calculations. Optical sources and detectors. Analog and digital transmission using optical fiber. Time, frequency and wavelength division multiplexing. Coherent heterodyne multiplexing techniques. Splicing techniques and safety considerations. PREREQ: ELCTEC 252 or PERM/INST.

Upper Division

ELCTEC 385 FIBER OPTICS TECHNOLOGY (1-0-1). Course of fiber optics systems and use of fiber optics in electronic instrumentation and communication. Course will cover fiber measurements and terminology to advanced levels, fiber optic end systems, fiber characteristics and handling. Will include additional detail and student requirements beyond those of ELCTEC 285.

Environmental Control Technician

Degrees Offered

• A.T.C., A.A.S., and B.A.S. in Environmental Control Technician

Program Statement

Leading to an advanced technical certificate or an associate of applied science degree, this double-major option combines the Industrial Maintenance Technology and Refrigeration, Heating, and Air Conditioning curriculums. Graduates of the program maintain equipment and control the industrial environment in a variety of settings, ranging from light manufacturing to heavy industry.

Degree Requirements

Environmental Control Technician Advanced Technical Certificate	
Course Number and Title	**Credits**
APPACAD 111 Applied Communication	3
APPACAD 136 Applied Technical Math	3
APPACAD 179 Job Seeking Skills	1
APPACAD 180 Human Relations at Work	2
IMTEC 101 Maintenance Welding Technology	3
IMTEC 102 Maintenance Machine Fundamentals	3
IMTEC 114 Electromechanical Systems	3
IMTEC 115 Electromechanical Systems	3
IMTEC 124 Basic Fluid Power Applications-Hydraulics	3
IMTEC 125 Basic Fluid Power Applications-Pneumatics	3
IMTEC 134 Industrial Technology Laboratory	3
IMTEC 135 Industrial Technology Laboratory	4
IMTEC 144 Air Condition/Refrigeration Systems Maintenance	2
IMTEC 145 Heating Systems Maintenance	2
REFHTEC 110 HVAC/R Electrical Applications	3
REFHTEC 115 Control and Schematic Fundamentals	3
REFHTEC 123 Principles of Refrigeration	3
REFHTEC 124 Principles of Refrigeration Lab	5
REFHTEC 133 Heating Systems	2
REFHTEC 134 Heating Systems Lab	3
REFHTEC 143 Air Conditioning Systems	2
REFHTEC 144 Air Conditioning Systems Lab	3
Total	62

Environmental Control Technician Associate of Applied Science	
Course Number and Title	**Credits**
Successful completion of technical courses	53
ENGL 101 English Composition **AND** ENGL 102 **OR** COMM 101 **OR** APPACAD 111 Area I or II core course in any field Area III core course in mathematics Area I, II, or III core course in any field 16 credits chosen from above. Please refer to the A.A.S. requirements in Chapter 10 for explanation.	3 3 3 3-5 3-4
Total	69

Farm Business Management

Instructor: Wells.

Degree Offered

• P.T.C. in Farm Business Management

Program Statement

Leading to a postsecondary technical certificate, the Farm Business Management program is designed to help farm businesses and family farms through improved management, organization, and efficiency of farming operations.

This program is not a production agricultural program, but instead emphasizes the business and management skills needed to operate a successful farming operation during a widely fluctuating economic cycle. The use of the computer in this program is to aid the farm manager in making sound management decisions. The program also provides a solid background in record-keeping and accounting.

Participants meet on campus for the classroom portion of the program. They are also assisted in their own operations, at their individual locations, by the instructor. Emphasis during the first year is on setting up the farming operation's records system. Special fees apply to this program.

Degree Requirements

Farm Business Management Postsecondary Technical Certificate	
Course Number and Title	**Credits**
FARMBUS 175 Farm Business Records and Accounting	5
FARMBUS 176 Technical Support I	0
FARMBUS 178 Farm Business Analysis and Evaluation	5
FARMBUS 179 Technical Support II	0
FARMBUS 181 Fundamental Financial Management	5
FARMBUS 182 Technical Support III	0
Total	15

Course Offerings

See page 65 for a definition of the course-numbering system.

FARMBUS — FARM BUSINESS MANAGEMENT

FARMBUS 175 FARM BUSINESS RECORDS AND ACCOUNTING (4-2-5)(S). First-year participants will study the fundamentals of farm accounting with a systematic approach to keeping accurate records. This course offers the opportunity to place these records on microcomputer for general farm use. This course is designed for both experienced and inexperienced computer users and includes farm accounting procedures, account structure, enterprise accounting, balance sheet, and income statements.

FARMBUS 176 TECHNICAL SUPPORT I (0-2-0)(S). Students will have up to 30 hours of instructor technical assistance at their locations over a one year period to implement concepts learned in FARMBUS 175.

FARMBUS 178 FARM BUSINESS ANALYSIS AND EVALUATION (4-2-5)(F,S). Second-year participants will learn financial statement analysis. This will involve the interpretation of balance sheets, income statements, and statements of cash flow. Ratio relationships between the financial statements will be explored. Short term (less than one year) and long term (up to five years) computerized budgeting using electronic spreadsheets will also be explored.

FARMBUS 179 TECHNICAL SUPPORT II (0-2-0)(S). Students will have up to 30 hours of instructor technical assistance at their locations over a one year period to implement concepts learned in FARMBUS 178.

FARMBUS 181 FUNDAMENTAL FINANCIAL MANAGEMENT (2-8-5)(F,S). Third-year participants will study fundamental financial management. This will include calculating interest, analyzing the cost of using funds, determining impact of depreciation on investments, projecting returns on investments and evaluating lease and/or purchase decisions. Students will implement the principles learned in class in their own operations and will have a full year of instructor support to do so.

FARMBUS 182 TECHNICAL SUPPORT III (0-2-0)(S). Students will have up to 30 hours of instructor technical assistance at their locations over a one year period to implement concepts learned in FARMBUS 181.

Fire Service Technology

Degree Offered

- A.A.S. and B.A.S. in Fire Service Technology
- A.A.S. and B.A.S. in Wildland Fire Management

Program Statement

Leading to an associate of applied science degree, the Fire Service Technology program is designed to upgrade the skills and knowledge of volunteer and paid fire fighters in all phases of fire fighting. The intent of this program is to provide fire fighters with the latest technology needed to save lives and protect property in a safe and efficient manner. Participants must be members of paid or volunteer fire departments because specific activities in these courses require access to facilities and equipment located at fire departments. Courses are delivered through local fire departments, on demand, when sufficient enrollment is secured.

Leading to an associate of applied science degree, the Wildland Fire Management program is designed to develop the skills and knowledge of volunteer and paid fire fighters in wildland fire fighting. The intent of this program is to provide fire fighters with the latest technology needed to save lives and protect property in a safe and efficient manner. Courses are delivered through local fire departments and state and federal wildland fire fighting agencies.

Special fees apply to these programs. Students interested in these programs should contact the Larry G. Selland College of Applied Technology, Center for Workforce Training, Technical Services Building, Room 105, 208 426-1974.

Degree Requirements

Fire Service Technology
Associate of Applied Science

Course Number and Title		Credits
Technical Course Work		42
Rapid Intervention Team Training Fire Fighter Safety and Survival	20	
Fire Fighter I	200	
Fire Fighter II	90	
Technical Rescue—Operations elective	20	
Flashover Survival Training	5	
Hazardous Materials Awareness	8	
Hazardous Materials Operation	16	
Wildland Basic Fire Fighter II	32	
S215 Wildland Interface	20	
Basic First Aid and CPR	16	
Arson Detection for First Responders	16	
Building Construction Combustible	16	
Building Construction Noncombustible	16	
Incident Command System	16	
Infection Control for Emergency Response Personnel: The Supervisor's Role	16	
Driver Operator/Pump Operations	120	
Fire Officer I	80	
Instructor I	28	
ITM 104 Operating Systems and Word Processing Topics		1
ITM 105 Spreadsheet Topics		1
ENGL 101 English Composition **AND**		3
ENGL 102 **OR** COMM 101 **OR** APPACAD 111		3
Area I or II core course in any field		3
Area III core course in mathematics		3-5
Area I, II, or III core course in any field		3-4
16 credits chosen from above. Please refer to the A.A.S. requirements in Chapter 10 for explanation.		
Total		60

Wildland Fire Management
Associate of Applied Science

Course Number and Title		Credits
Technical Course Work		27
Supervised Work Experience I	150	
Supervised Work Experience II	150	
Supervised Work Experience III	150	
Basic Fire Fighter Position Task Book	45	
Advanced Fire Fighter Position Task Book	135	
Basic Fire School:	43	
Wildland Fire Suppression Orientation		
Fire Fighter Training		
Introduction to Wildland Fire Behavior		
Introduction to Incident Command System		
Basic Incident Command System	12	
Facilitative Instructor	36	
Portable Pumps and Water Use	24	
Wildfire Power Saws	24	
Supervisory Concepts and Techniques or	16	
Fireline Leadership		
Fire Operations in the Urban Interface	32	
Crew Boss (Single Resource)	24	
Ignition Operations	32	
Interagency Incident Business Management	16	
Basic Air Operations	16	
Intermediate Wildland Fire Behavior	32	
7 Courses selected from the following to total 255 hours		17
Dispatch Recorder	12	
Fire Cause Determination for First Responders	4	
Wildfire Origin Cause and Determination	29	
Human Factors on the Fireline	6	
Prescribed Fire Burn Boss	36	
Introduction to Fire Effects	36	
Standards for Survival	8	
Look Up, Look Down, Look Around	4	
Lookouts, Communications, Escape Routes, and Safety Zones	7	
Introduction to Incident Information	29	
Driving for the Fire Service	40	
Initial Attack Incident Commander	16	
Engine Boss	8	
Dozer Boss	8	
Field Observer	20	
Status/Check-In Recorder	16	
Applied Interagency Incident Business Management	16	
Introduction to Wildland Fire Behavior Calculations	16	
ENGL 101 English Composition **AND**		3
ENGL 102 **OR** COMM 101 **OR** APPACAD 111		3
Area I or II core course in any field		3
Area III core course in mathematics		3-5
Area I, II, or III core course in any field		3-4
16 credits chosen from above. Please refer to the A.A.S. requirements in Chapter 10 for explanation.		
Total		60

Course Offerings

See page 65 for a definition of the course-numbering system.

FIRESV — FIRE SERVICE TECHNOLOGY

FIRESV 100 FIRE TRAINING TECHNOLOGY (V-V-42). This program is designed to upgrade paid and volunteer fire fighters in the latest fire fighting and life saving techniques. The course work listed (except general education requirements) for the Idaho State Fire Fighters certification, associate of applied science degree program, is delivered through statewide fire departments. All courses except general education requirements will be graded Pass/Fail. PREREQ: PERM/INST.

WFMGMT — WILDLAND FIRE MANAGEMENT

WFMGMT 100 WILDLAND FIRE MANAGEMENT (V-V-44). This program is designed to develop the skills and knowledge of wildland fire fighters in all phases of wildland fire fighting. The course work listed, except general education requirements, will be delivered through state and federal wildland fire fighting agencies. (Pass/Fail.) PREREQ: PERM/INST.

Health and Human Services

Course Offerings

See page 65 for a definition of the course-numbering system.

HLTHP — HEALTH PROFESSIONS

HLTHP 101 HEALTH PROFESSIONS ANATOMY AND PHYSIOLOGY (4-0-4)(F/S). Normal structure and function of the body cells, tissues, organs, and systems, including the interrelationship of body systems.

HLTHP 102 HEALTH PROFESSIONS MEDICAL TERMINOLOGY (2-0-2)(F/S). Language of medicine organized into basic word structure (prefixes, roots, suffixes) and terms pertaining to the body systems.

Horticulture Technology

Instructors: Blackburn, Dodson, Moen.

Degrees Offered

- T.C. in Horticulture Technology, Horticulture Assistant
- A.T.C., A.A.S., and B.A.S. in Horticulture Technology, Horticulturist

Program Statement

The curriculum includes art principles in floral, garden, and landscape design, as well as theory and practice in plant propagation, production and management of nursery and greenhouse crops, planting and maintenance of landscapes, and interiorscapes.

The 9-month Horticulture program is intended for individuals interested in entry-level horticulture sales, floriculture, greenhouse and landscape maintenance

Degree Requirements

Horticulture Technology
Horticulture Assistant
Technical Certificate

Course Number and Title	Credits
APPACAD 111 Applied Communication	3
APPACAD 136 Applied Technical Math	3
APPACAD 180 Human Relations at Work	2
HORTEC 105 Floral Design	2
HORTEC 107 Landscape Management-Maintenance	3
HORTEC 108 Plant Propagation and Management	3
HORTEC 110 Horticulture Botany	3
HORTEC 136 Plant Production and Management	3
HORTEC 140 Soil and Plant Nutrition	3
HORTEC 143 Horticulture Internship Seminar	1
HORTEC 293 Horticulture Internship	4
Plant materials electives selected from: HORTEC 106 Annuals and Perennials HORTEC 135 Floriculture Crops HORTEC 203 Deciduous Trees HORTEC 253 Woody Shrubs HORTEC 280 Utilization of Native Plants in the Landscape HORTEC 283 Conifer Trees	5
Total	35

The 2-year Horticulturist program qualifies students for employment in nursery, greenhouse, and floral businesses, as well as, landscape and grounds maintenance companies, parks, golf-courses, community forestry departments and allied industries. The advanced technical certificate is awarded upon successful completion of the program or students completing the program with the required university core courses qualify for the associate of applied science degree.

Horticulture Technology
Horticulturist
Advanced Technical Certificate

Course Number and Title	Credits
Successful completion of horticulture technical certificate	35
BUSTEC 161 Intro to Microcomputers	3
HORTEC 204 Landscape Management-Installation	3
HORTEC 205 Weed Science	2
HORTEC 207 Turfgrass Management	3
HORTEC 254 Landscape Management-Irrigation	3
HORTEC 255 Insect and Disease Science	2
HORTEC 256 Landscape Design Principles	3
HORTEC 271 Individual Horticulture Project	3
Plant materials electives not previously taken selected from: HORTEC 106 Annuals and Perennials HORTEC 135 Floriculture Crops HORTEC 203 Deciduous Trees HORTEC 253 Woody Shrubs HORTEC 280 Utilization of Native Plants in the Landscape HORTEC 283 Conifer Trees	6
Total	63

Horticulture Technology
Horticulturist
Associate of Applied Science

Course Number and Title	Credits
Successful completion of Horticulture Technology advanced technical certificate except APPACAD 111, APPACAD 136, APPACAD 180, and BUSTEC 161	52
ENGL 101 English Composition **AND**	3
ENGL 102 **OR** COMM 101 **OR** APPACAD 111	3
Area I or II core course in any field	3
Area III core course in mathematics	3-5
Area I, II, or III core course in any field 16 credits chosen from above. Please refer to the A.A.S. requirements in Chapter 10 for explanation.	3-4
Total	68

Course Offerings

See page 65 for a definition of the course-numbering system.

HORTEC — HORTICULTURE TECHNOLOGY

HORTEC 105 FLORAL DESIGN (1-2-2)(F/S). Basic floral design concepts and practical lab experience in constructing floral designs.

HORTEC 106 ANNUALS AND PERENNIALS (1-4-3)(F/S). Collection, identification, cultural requirements, and landscape use of annuals, perennials, vines, and ornamental grasses.

HORTEC 107 LANDSCAPE MANAGEMENT-MAINTENANCE (1-4-3)(F/S). Practical field experience in pruning, landscape maintenance, and small power equipment use.

HORTEC 108 PLANT PROPAGATION AND MANAGEMENT (1-4-3)(F/S). Propagation, growth, and analysis of nursery and greenhouse crops. Plant management in actual greenhouse, field, and nursery facilities.

HORTEC 110 HORTICULTURE BOTANY (1-4-3)(F/S). Introduction to plant classification, anatomy, and basic plant growth processes. Emphasis on function of plant parts, reproductive structures and their application to the study of horticulture.

HORTEC 135 FLORICULTURE CROPS (1-2-2)(F/S). Identification, cultural requirements, and interior landscape use of floral, foliage, and greenhouse crops.

HORTEC 136 PLANT PRODUCTION AND MANAGEMENT (1-4-3)(F/S). Selecting, managing, and growing woody landscape plants, bare-root nursery stock, bedding plants and tropical foliage plants for consumption and sales in actual greenhouse, field and nursery facilities. Integrated Pest Management emphasized with ISDA certification exam required.

HORTEC 140 SOILS AND PLANT NUTRITION (1-4-3)(F/S). Examination of the physical, chemical, and biological properties of soils. Review of chemical properties of fertilizer components in soil solution. Study of the diagnosis and correction of plant deficiencies.

HORTEC 143 HORTICULTURE INTERNSHIP SEMINAR (1-0-1)(F/S). Eight-week seminar preparing students for internship employment requirements. Cover letters, resumes, interviewing, and completion of university contracts for internships.

HORTEC 203 DECIDUOUS TREES (1-4-3)(F/S). Collection, identification, cultural requirements, and landscape use of deciduous trees.

HORTEC 204 LANDSCAPE MANAGEMENT-INSTALLATION (1-4-3)(F/S). Hands-on opportunities for installing complete landscapes focusing on woody plants, hardscapes, irrigation systems, turf, and landscape equipment use.

HORTEC 205 WEED SCIENCE (1-2-2)(F/S). Weed identification and collection. Cultural, biological, and chemical controls for nursery and landscape environments. ISDA certification exam required.

HORTEC 207 TURFGRASS MANAGEMENT (2-2-3)(F/S). Grass anatomy, turfgrass selection, environmental conditions and cultural operations necessary for installation and maintenance of turf.

HORTEC 253 WOODY SHRUBS (1-4-3)(F/S). Collection, identification, cultural requirements, and landscape use of evergreen and deciduous shrubs.

HORTEC 254 LANDSCAPE MANAGEMENT-IRRIGATION (1-4-3)(F/S). Designing, engineering, troubleshooting, and managing of commercial and residential irrigation systems.

HORTEC 255 INSECT AND DISEASE SCIENCE (1-2-2)(F/S). Identification, life cycles, and host symptom diagnosis; exploration of cultural, biological, and chemical controls for landscape and nursery environments. ISDA certification exam required.

HORTEC 256 LANDSCAPE DESIGN PRINCIPLES (1-4-3)(F/S). Culture and history of landscape architecture and its impact on modern landscape architecture. Principles and elements of design for the development of functional, aesthetically pleasing outdoor environments.

HORTEC 271 INDIVIDUAL HORTICULTURE PROJECTS (1-4-3)(F/S). Student application of horticulture education in planning, designing and completing a unique practical approved horticulture project.

HORTEC 280 UTILIZATION OF NATIVE PLANTS IN THE LANDSCAPE (1-2-2)(F/S). Collection, identification, cultural requirements, landscape use, and wildlife value of plants native to the Pacific Northwest and the Intermountain Region.

HORTEC 283 CONIFER TREES (1-2-2)(F/S). Collection, identification, cultural requirements, and landscape use of conifer trees.

HORTEC 293 HORTICULTURE INTERNSHIP (0-12-4)(F/S). Supervised horticulture work experience in local horticultural businesses. Student will be paid for a minimum of 200 hours work experience in his/her interest area and be under the supervision and guidelines of university faculty. PREREQ: HORTEC 143.

Idaho Professional Driver Training Program

Instructors: Dean, Kilton, McDannel, Urlezaga.

Degree Offered

- P.T.C. in Idaho Professional Driver Training

Program Statement

Leading to a postsecondary technical certificate, the Idaho Professional Driver Training program is designed to provide the student with the necessary skills and background for employment as an over-the-road entry-level driver. The program is 15 weeks in length with three, 3-week courses and a 6-week internship. Initially, controlled driving takes place in nontraffic areas and advances to the open road, progressing from an empty to a loaded truck and trailer. The student learns skills and procedures for handling freight, dock backing, and trailer combinations and their uses. Ample time is given to familiarize the student with the problems of negotiating large rigs in traffic and over the highway. Department of Transportation and interstate rules and requirements, including the Federal Commercial Driver's License law, are covered. Log-keeping, accident avoidance, and reporting procedures are stressed throughout the course. All students must meet the Department of Transportation's physical standards, have a Department of Motor Vehicles driver's record print-out, and pass the state commercial driver's license exam. Special fees apply to this program.

Degree Requirements

Idaho Professional Driver Training Postsecondary Technical Certificate	
Course Number and Title	**Credits**
IPDT 102 Basic Knowledge Development and Theory	6
IPDT 106 Driving Skills Development	4
IPDT 112 Driving Skills Enhancement	4
IPDT 193 Professional Truck Driving Internship	5
Total	19

Course Offerings

See page 65 for a definition of the course-numbering system.

IPDT — IDAHO PROFESSIONAL DRIVER TRAINING

IPDT 101 BASIC PROFESSIONAL DRIVER TRAINING (0-6-2). Basic vehicle operation and endorsements needed for Commercial Driver's License requirements.

IPDT 102 BASIC KNOWLEDGE DEVELOPMENT AND THEORY (100-20-6). This three-week course includes orientation to the program and history of the industry. The students will be introduced to basic vehicle operation, mechanics, control systems, safety, vehicle inspections, log books, laws, commercial motor vehicle safety regulations, metric conversions, hazardous materials, and Commercial Driver's License requirements.

IPDT 103 BASIC DRIVING SKILLS DEVELOPMENT (0-12-4). Practice on techniques and skills necessary to pass the state Commercial Driver's License requirements.

IPDT 106 DRIVING SKILLS DEVELOPMENT (0-120-4). This three-week course is lab instruction and includes nondriving safety, vehicle inspections, speed and space management, backing techniques, shifting, ports of entry, DOT inspections, weight distribution, defensive driving, and special component use.

IPDT 112 DRIVING SKILLS ENHANCEMENT (0-120-4). This three-week course is lab instruction and includes more challenging terrain and progresses to city driving. It focuses on increased proficiency on all basic techniques and skills necessary to pass the federally mandated state Commercial Driver's License, vehicle inspections and road test.

IPDT 193 PROFESSIONAL TRUCK DRIVING INTERNSHIP (0-240-5). This six-week course is on-the-job training with a trucking firm. It is real life experience as the student participates in the daily routine of a truck driver. The student will be attended at all times by a training driver selected by the training station management and approved by the Professional Truck Driving Program.

Industrial Electronics Technology

Instructors: Dodson, Douglas, Dunn, Lonsdale, Palagi, Stack.

Degree Offered

- A.T.C., A.A.S., and B.A.S. in Industrial Electronics Technology

Program Statement

The Industrial Electronics Technology certificate and degree will prepare students for entry-level technician work with engineers and scientists as well as internal and external customers.

Degree Requirements

Industrial Electronics Technology Advanced Technical Certificate	
Course Number and Title	**Credits**
APPACAD 139 Applied Algebra & Trigonometry	4
APPACAD 179 Job Seeking Skills	1
APPACAD 180 Human Relations at Work	2
APPACAD 221 Technical Report Writing	3
BUSTEC 161 Introduction to Microcomputers	3

—continued—

Industrial Electronics Technology, A.T.C. (continued)	
ELCTEC 151L DC Electronics Laboratory ELCTEC 152L AC Electronics Laboratory ELCTEC 151 DC Electronics Theory ELCTEC 152 AC Electronics Theory ELCTEC 162 Intro to Digital Systems ELCTEC 163 Intro to Digital Systems Lab ELCTEC 172 Solid State Devices ELCTEC 173 Solid State Devices Lab	2 2 3 2 3 1 3 3
MFGTEC 185 Practicum: Facilities Tours MFGTEC 201 Quality Assurance and Statistical Process Control MFGTEC 231 Technical Physics **OR** CHEM 115 Material Science Chemistry	1 4 4
MACHTEC 100 Hand Tools	1
Technical electives chosen from: BRDTEC 121, 122 Broadcast Operations and Lab, BRDTEC 217, 218 Electronic Field Production and Lab BRDTEC 221, 222 Broadcast Facilities Maintenance and Lab BRDTEC 230, 232 RF for Broadcasting and Lab BRDTEC 293 Broadcast Technology Internship ELCTEC 251, 201 Linear Systems and Lab ELCTEC 252, 202 Telecommunications Systems and Lab ELCTEC 225, 226 Programmable Logic Controller and Lab ELCTEC 231 Electronic Calculus ELCTEC 241, 242 Instrumentation and Lab ELCTEC 264, 265 Advanced Digital Systems and Lab ELCTEC 277, 277L Microprocessor Systems and Lab MACHTEC 126 Related Blueprint Reading MACHTEC 154 Machine Shop Theory MFGTEC 100 Material and Process Manufacturing MFGTEC 153, 154 Machine Shop Lab MFGTEC 210 Introductory Robotics MFGTEC 215 Pneumatic Control SEMITEC 181 Integrated Circuit Processing I SEMITEC 215 RF Energy and Plasma SEMITEC 212 Vacuum SEMITEC 282 Integrated Circuit Processing II Special Topics (No more than 9 credits of special topics: applied technology course work maybe used)	20
Total	62

Industrial Electronics Technology Associate of Applied Science	
Course Number and Title	**Credits**
Successful completion of Industrial Electronics Technology advanced technical certificate except APPACAD 139, APPACAD 179, APPACAD 180, and APPACAD 221	52
ENGL 101 English Composition **AND** ENGL 102 **OR** COMM 101 **OR** APPACAD 111 Area I or II core course in any field Area III core course in mathematics Area I, II, or III core course in any field 16 credits chosen from above. Please refer to the A.A.S. requirements in Chapter 10 for explanation.	3 3 3 3-5 3-4
Total	68

Industrial Maintenance Technology

Instructor: Allen.

Degree Offered

- T.C. in Industrial Maintenance Technology

Program Statement

The Industrial Maintenance Technology program is designed to prepare students for entry-level employment in industrial environments. Emphasis is on design, operation, maintenance, diagnosis, and troubleshooting of modern systems in the workplace in industrial and agricultural endeavors. Preventive maintenance skills and job safety are stressed. Career options may include Plant Engineer, Facilities Technician, Industrial Maintenance Mechanic, or Agricultural Maintenance Mechanic. Upon successful completion of the nine-month Technical Certificate program, a student can pursue or may be eligible for an Advanced Technical Certificate or an Associate of Applied Science in Automated Industrial Technician or Environmental Control Technician Options.

Degree Requirements

Industrial Maintenance Technology Technical Certificate	
Course Number and Title	**Credits**
APPACAD 111 Applied Communication APPACAD 130 Mechanical Math APPACAD 179 Job Seeking Skills APPACAD 180 Human Relations at Work	3 1 1 2
IMTEC 101 Maintenance Welding Technology IMTEC 102 Maintenance Machine Fundamentals IMTEC 114 Electromechanical Systems IMTEC 115 Electromechanical Systems IMTEC 124 Basic Fluid Power Applications-Hydraulics IMTEC 125 Basic Fluid Power Applications-Pneumatics IMTEC 134 Industrial Technology Laboratory IMTEC 135 Industrial Technology Laboratory IMTEC 144 Air Condition/Refrigeration Systems Maintenance IMTEC 145 Heating Systems Maintenance	3 3 3 3 3 3 3 4 2 2
Total	36

Course Offerings

See page 65 for a definition of the course-numbering system.

IMTEC — INDUSTRIAL MAINTENANCE TECHNOLOGY

IMTEC 101 MAINTENANCE WELDING TECHNOLOGY (3-1-3)(F). Principles of welding and metal joining techniques as found in industry or agriculture includes welding using special techniques or electrodes for ferrous and nonferrous metals, TIG/GTAW and GMAW to weld stainless steel or aluminum.

IMTEC 102 MAINTENANCE MACHINE FUNDAMENTALS (3-1-3)(S). Combines hand tools and machine tools (lathe, milling machine, drill press, shaper, grinding, and pipe/bolt machine) to allow students ability to learn basic skills and to study how machines work. Preventive maintenance techniques are emphasized using this equipment.

IMTEC 114 ELECTROMECHANICAL SYSTEMS (3-1-3)(F). Concentrates on electric motor controls for split phase/fractional horsepower electric motors. Basic skills, elementary through advanced circuits, test meter use, operating characteristics, troubleshooting skills, and maintenance considerations are covered.

IMTEC 115 ELECTROMECHANICAL SYSTEMS (3-1-3)(S). Concentrates on three phase and direct-current motor/control systems. Wiring skills, diagnostic equipment, elementary through advanced circuits including variable frequency drives and programmable logic controllers is offered. Training equipment duplicates industrial installations.

IMTEC 124 BASIC FLUID POWER APPLICATIONS-HYDRAULICS (3-1-3)(F). Principles of basic hydraulics, components and controls, introductory through advanced circuitry, schematics, and electrohydraulics as found in mobile, agricultural, or industrial systems is offered.

IMTEC 125 BASIC FLUID POWER APPLICATIONS-PNEUMATICS (3-1-3)(S). Covers use of compressed air or pneumatics to operate production equipment. Specialized compressors, directional valves, flow control valves, actuators, and related equipment are included. Schematics and circuitry emphasized.

IMTEC 134 INDUSTRIAL TECHNOLOGY LABORATORY (0-6-3)(F). Metal joining, hydraulics, electric motors and controls, and preventive maintenance. Systems are enhanced by computer assistance where applicable.

IMTEC 135 INDUSTRIAL TECHNOLOGY LABORATORY (0-8-4)(S). Machine tool use for maintenance, use of compressed air or pneumatics, properties of materials, and electric motors and controls. Systems are enhanced by computer assistance where applicable.

IMTEC 144 AIR CONDITION/REFRIGERATION SYSTEMS MAINTENANCE (2-0-2)(F). Basic refrigeration systems and air conditioning in selected applications with emphasis on effective maintenance. CFC Certification optional.

IMTEC 145 HEATING SYSTEMS MAINTENANCE (2-0-2)(S). Basic heating systems in selected applications with emphasis on effective maintenance and troubleshooting.

Machine Tool Technology

Instructors: Sperry, Starkey.

Degrees Offered

- T.C., A.T.C., A.A.S., and B.A.S. in Machine Tool Technology

Program Statement

Leading to a technical certificate, advanced technical certificate, or an associate of applied science degree, the Machine Tool Technology program is designed for students who wish to become machine tool operators. Students receive instruction in the set-up and use of all basic machines, including engine lathes, milling machines, grinders, surface grinders, and computer numerical control machines. Students also learn about the many different materials and processes used by industry. In addition, students receive classroom instruction and practical experience in the use of various precision measurement and test equipment used by metals-manufacturing industries.

In addition to advanced technical theory in the classroom, the second-year of the program offers laboratory work in a practicum agreement with local manufacturing and machine shops.

Degree Requirements

**Machine Tool Technology
Technical Certificate**

Course Number and Title	Credits
APPACAD 111 Applied Communication	3
APPACAD 136 Applied Technical Math	3
APPACAD 143 Math for Machine Tool Technology	3
*APPACAD 179 Job Seeking Skills	1
*APPACAD 180 Human Relations at Work	2
*If the student intends to pursue an A.A.S. degree these 6 credits need to be taken from the university's academic core courses. Please refer to the A.A.S. requirements in Chapter 10 for explanation.	
MACHTEC 103 Machine Shop Laboratory	7
MACHTEC 104 Machine Shop Laboratory	7
MACHTEC 126 Related Blueprint Reading	2
MACHTEC 127 Related Blueprint Reading	2
MACHTEC 153 Machine Shop Theory	3
MACHTEC 154 Machine Shop Theory	3
Total	36

**Machine Tool Technology
Advanced Technical Certificate**

Course Number and Title	Credits
Successful completion of Machine Tool Technology technical certificate	36
MACHTEC 203 Advanced Machine Shop Laboratory	8
MACHTEC 204 Advanced Machine Shop Laboratory	8
MACHTEC 211 Fundamentals of Computer-Aided Drafting and Design	2
MACHTEC 212 Computer Aided Manufacturing	3
MACHTEC 224 Tool Design for Manufacturing	2
MACHTEC 225 Geometric Dimensioning and Tolerancing	3
MACHTEC 253 Advanced Machine Shop Theory	2
MACHTEC 254 Advanced Machine Shop Theory	2
Total	66

**Machine Tool Technology
Associate of Applied Science**

Course Number and Title	Credits
Successful completion of Machine Tool Technology advanced technical certificate except APPACAD 111, APPACAD 179, and APPACAD 180	60
ENGL 101 English Composition **AND**	3
ENGL 102 **OR** COMM 101 **OR** APPACAD 111	3
Area I or II core course in any field	3
Area III core course in mathematics	3-5
Area I, II, or III core course in any field	3-4
16 credits chosen from above. Please refer to the A.A.S. requirements in Chapter 10 for explanation.	
Total	76

Course Offerings

See page 65 for a definition of the course-numbering system.

MACHTEC — MACHINE TOOL TECHNOLOGY

MACHTEC 100 HAND TOOLS (0-2-1)(F/S). Safe and proper use of tools and fasteners commonly used in the electronics and manufacturing industries.

MACHTEC 103 MACHINE SHOP LABORATORY (0-21-7)(F). Lab to support MACHTEC 153. COREQ: MACHTEC 153.

MACHTEC 104 MACHINE SHOP LABORATORY (0-21-7)(S). Lab to support MACHTEC 154. PREREQ: MACHTEC 103. COREQ: MACHTEC 154.

MACHTEC 126 RELATED BLUEPRINT READING (2-0-2)(F). Basic principles and techniques of reading orthographic projection drawings and technical sketching as applied to machine shop practice.

MACHTEC 127 RELATED BLUEPRINT READING (2-0-2)(S). Advanced principles to interpret more complicated machine shop detail and assembly drawings with emphasis on machining specifications and materials. Introduction to the use of the Machinery's Handbook in interpreting blueprint specifications and associated machining processes. PREREQ: MACHTEC 126.

MACHTEC 153 MACHINE SHOP THEORY (3-0-3)(F). Machining processes and their applications as practiced in the laboratory course. Safety and sound work habits are emphasized in all phases of instruction. Care, use, and maintenance of layout and inspection tools, the use of hand tools and minor power tools, as well as the set-up, operation and maintenance of manual engine lathes, drill presses, and power saws. COREQ: MACHTEC 103.

MACHTEC 154 MACHINE SHOP THEORY (3-0-3)(S). Machining processes and their applications as practiced in the laboratory course. Safety and sound work habits are emphasized in all phases of instruction. Set-up, operation, and maintenance of manual milling machines, advanced manual engine lathe set-up techniques and operations, precision surface grinding and measuring techniques. PREREQ: MACHTEC 153. COREQ: MACHTEC 104.

MACHTEC 203 ADVANCED MACHINE SHOP LABORATORY (0-24-8)(F). Lab to support MACHTEC 253. PREREQ: MACHTEC 104. COREQ: MACHTEC 253.

MACHTEC 204 ADVANCED MACHINE SHOP LABORATORY (0-24-8)(S). Lab to support MACHTEC 254.PREREQ: MACHTEC 203. COREQ: MACHTEC 254.

MACHTEC 211 FUNDAMENTALS OF COMPUTER-AIDED DRAFTING AND DESIGN (1-3-2)(F). Introduction to computer-aided drafting and design systems to prepare students for keyboarding, operating the systems, and understanding the applications of computer graphics to machine standards. Students will use an interactive computer graphics system to prepare drawings on a CRT.

MACHTEC 212 COMPUTER-AIDED MANUFACTURING (2-3-3)(S). Writing computer numerical control (CNC) machine tool programs using computer-assisted techniques to generate G-Code and M-Function programs. Tooling concepts, machining methods, definition of part geometry, writing of tool motion statements, use of the computer to process program inputs, analysis, and debugging of computer outputs to develop a functional program. PREREQ: MACHTEC 253.

MACHTEC 224 TOOL DESIGN FOR MANUFACTURING (2-0-2)(S). Advanced set-up techniques, tool and hardware selection, and process planning for manufacturing, as well as jig and fixture design for production machining. PREREQ: MACHTEC 154.

MACHTEC 225 GEOMETRIC DIMENSIONING AND TOLERANCING (3-0-3)(F). Basic geometric dimensioning and tolerancing (GD&T) methods as interpreted in ASME Y14.5M. The student will learn to read and use geometric tolerancing symbolism and terms. PREREQ: MACHTEC 127.

MACHTEC 253 ADVANCED MACHINE SHOP THEORY (2-0-2)(F). Introduces basic programming skills and operation of computer numerical control (CNC) machining centers. Emphasis on manually writing (G&M compatible) programs, debugging programs, setups and fixturing, tooling, offset calculations, and operating CNC machining centers. PREREQ: MACHTEC 154. COREQ: MACHTEC 203.

MACHTEC 254 ADVANCED MACHINE SHOP THEORY (2-0-2)(S). Introduces basic programming skills and operation of computer numerical control (CNC) turning centers. Emphasis on manually writing (G&M compatible) programs, debugging programs, setups and fixturing, tooling, offset calculations, and operating CNC turning centers. PREREQ: MACHTEC 253. COREQ: MACHTEC 204.

Manufacturing Systems Technology

Instructor: Lonsdale.

Degrees Offered

• A.T.C., A.A.S., and B.A.S. in Manufacturing Systems Technology

Program Statement

The Manufacturing Systems Technology program is designed to prepare entry-level technicians to troubleshoot, repair, install, maintain, and upgrade electro-mechanical systems in high tech manufacturing facilities. Program graduates are prepared with a technical understanding of how subsystems operate and integrate into the complete manufacturing process.

Degree Requirements

Manufacturing Systems Technology Advanced Technical Certificate	
Course Number and Title	**Credits**
APPACAD 111 Applied Communication	3
APPACAD 139 Applied Algebra and Trigonometry	4
APPACAD 179 Job Seeking Skills	1
APPACAD 180 Human Relations at Work	2
ELCTEC 151L DC Electronics Lab	2
ELCTEC 152L AC Electronics Lab	2
ELCTEC 151 DC Electronics Theory	3
ELCTEC 152 AC Electronics Theory	2
ELCTEC 162 Intro to Digital Systems	3
ELCTEC 163 Intro to Digital Systems Lab	1
ELCTEC 172 Solid State Devices	3
ELCTEC 173 Solid State Devices Lab	3
ELCTEC 225 Programmable Logic Controllers	1
ELCTEC 226 Programmable Logic Controllers Lab	1
MACHTEC 100 Hand Tools	1
MACHTEC 126 Related Blueprint Reading	2
MACHTEC 153 Machine Shop Theory	3
MACHTEC 154 Machine Shop Theory	3
MFGTEC 100 Material and Process Manufacturing	3
MFGTEC 154 Machine Shop Lab	1
MFGTEC 185 Practicum: Facilities Tours	1
MFGTEC 201 Quality Assurance and Statistical Process Control	4
MFGTEC 210 Introductory Robotics	2
MFGTEC 215 Pneumatic Control	2
MFGTEC 231 Technical Physics	4
Total	57

Manufacturing Systems Technology Associate of Applied Science	
Course Number and Title	**Credits**
Successful completion of Manufacturing Systems Technology advanced technical certificate except APPACAD 111, APPACAD 179, and APPACAD 180	51
ENGL 101 English Composition **AND** ENGL 102 **OR** COMM 101 **OR** APPACAD 111 Area I or II core course in any field Area III core course in mathematics Area I, II, or III core course in any field 16 credits chosen from above. Please refer to the A.A.S. requirements in Chapter 10 for explanation.	3 3 3 3-5 3-4
Total	67

Course Offerings

See page 65 for a definition of the course-numbering system.

MFGTEC — MANUFACTURING SYSTEMS TECHNOLOGY

MFGTEC 100 MATERIAL AND PROCESS MANUFACTURING (3-0-3)(F/S). A lecture and visual-aid presentation overview of the production and general properties of common engineering materials such as iron, steel, zinc, copper, aluminum and plastics; the fundamentals of material processing such as powder metallurgy, hot and cold forming and shearing; and an introduction to semiconductor manufacturing.

MFGTEC 154 MACHINE SHOP LAB (0-3-1)(S). Lab course to support MACHTEC 154. PREREQ: MACHTEC 100. COREQ: MACHTEC 154.

MFGTEC 185 PRACTICUM: FACILITIES TOURS (0-2-1)(F). Course will take students on periodic field trips to various manufacturing facilities within the greater Boise area, giving the students opportunities to observe modern manufacturing. The level of computerization and automation will be discussed.

MFGTEC 201 QUALITY ASSURANCE AND STATISTICAL PROCESS CONTROL (4-0-4)(F/S). Statistical methods of manual and computerized manufacturing control will be examined and include generating and evaluating control charts for both attributes and characteristics, probability, error detection vs. prevention techniques, and inspection criteria. PREREQ: APPACAD 139.

MFGTEC 210 INTRODUCTORY ROBOTICS (1-3-2)(F/S). Overview course of automated manufacturing using 3-D pick and place technology and articulated arm robotics. Course will emphasize limits of precision and accuracy, stepper motor control, and connectivity with other computerized manufacturing operations. PRE/COREQ: ELCTEC 172 and ELCTEC 225.

MFGTEC 215 PNEUMATIC CONTROL (1-3-2)(F/S). Overview of pneumatics used to control manufacturing processes. Includes air theory, pneumatic circuit diagrams and components, PLC control, and circuit simulation. PRE/COREQ: ELCTEC 225.

MFGTEC 231 TECHNICAL PHYSICS (3-3-4)(F/S). The study of technical physics and their application in different technologies. The subjects include vectors, statics, dynamics, Newton's laws, work, energy, power, machines, and properties of materials. Course blends the technical principles with laboratory demonstrating those principles. This course can be used only by Manufacturing Systems Technology majors to satisfy an Area III Core requirement. (May be taken in either the freshman or sophomore year.) PREREQ: APPACAD 139 or equivalent.

Mechanical Welding Technician

This double major option combines the Welding and Metals Fabrication and Heavy Equipment Technician curricula.

Degrees Offered

• A.T.C., A.A.S., and B.A.S. in Mechanical Welding Technician

Degree Requirements

Mechanical Welding Technician Advanced Technical Certificate	
Course Number and Title	**Credits**
APPACAD 111 Applied Communication	3
APPACAD 130 Mechanical Math	1
APPACAD 179 Job Seeking Skills	1
APPACAD 180 Human Relations at Work	2
HETEC 100 Shop Practices	4
HETEC 105 Electrical Systems	4
HETEC 110 Engines/Engine Controls	4
HETEC 120 Mobile Hydraulic Systems	4
HETEC 130 Powertrains	4
HETEC 140 Preventive Maintenance/HVAC	4
WELD 125 Blueprint Reading and Layout I	2
WELD 126 Blueprint Reading and Layout II	2
WELD 127 Blueprint Reading and Layout III	2
WELD 128 Blueprint Reading and Layout IV	2
WELD 155 Welding Theory I	1
WELD 155L Welding Laboratory I	4
WELD 156 Welding Theory II	1
WELD 156L Welding Laboratory II	4
WELD 157 Welding Theory III	1
WELD 157L Welding Laboratory III	4
WELD 158 Welding Theory IV	1
WELD 158L Welding Laboratory IV	4
Total	59

Mechanical Welding Technician Associate of Applied Science	
Course Number and Title	**Credits**
Successful completion of Mechanical Welding Technician advanced technical certificate except APPACAD 111, APPACAD 130, APPACAD 179, and APPACAD 180	52
ENGL 101 English Composition **AND** ENGL 102 **OR** COMM 101 **OR** APPACAD 111 Area I or II core course in any field Area III core course in mathematics Area I, II, or III core course in any field 16 credits chosen from above. Please refer to the A.A.S. requirements in Chapter 10 for explanation.	3 3 3 3-5 3-4
Total	68

Practical Nursing

Instructors: Shaver, Small.

Degrees Offered

- A.T.C. in Practical Nursing

Program Statement

The Practical Nursing program includes theory and laboratory instruction, as well as clinical experience in the area's health care facilities. This program is approved by the Idaho State Board of Nursing. Upon satisfactory completion of the Practical Nursing program, the graduate is eligible to sit for the NCLEX-PN. Upon passing this exam, the graduate will be licensed to practice nursing as a Licensed Practical Nurse.

All students accepted into the Practical Nursing and programs 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 program website to obtain more information about this policy.

Degree Requirements

Practical Nursing Advanced Technical Certificate	
Course Number and Title	**Credits**
APPACAD 103 Health Professions Math APPACAD 111 Applied Communications APPACAD 180 Human Relations at Work	2 3 2
HLTHP 101 Health Professions Anatomy and Physiology HLTHP 102 Health Professions Medical Terminology	4 2
PN 102 Nursing Concepts PN 105 Interdisciplinary Patient Care Skills Lab PN 106 Basic Nutrition PN 107 Health Assessment PN 109 Clinical I PN 122 Pharmacology PN 124 Adult Health I PN 126 Maternal and Infant Health PN 128 Growth and Development Across the Life Span PN 129 Clinical II PN 202 Pediatric Health PN 204 Adult Health II PN 206 Mental Health PN 208 Health Promotion PN 209 Clinical III PN 226 Management PN 228 Clinical Preceptorship	2 2 1 2 3 3 2 2 2 5 2 5 1 1 8 3 5
Total	62

Course Offerings

See page 65 for a definition of the course-numbering system.

PN — PRACTICAL NURSING

PN 102 NURSING CONCEPTS (2-0-2)(F/S). Introduces careers in health care including characteristics of health care personnel, levels of education, certification and licensing requirements, medical law, and ethics.

PN 105 INTERDISCIPLINARY PATIENT CARE SKILLS LAB (0-6-2)(F/S). An Interdisciplinary team approach is used to teach basic patient care skills and interventions to restore and protect health. (Pass/Fail.)

PN 106 BASIC NUTRITION (1-0-1)(F/S). Introduces nutrition and identifies the body's nutritional needs in health.

PN 107 HEALTH ASSESSMENT (1-3-2)(F/S). Introduces the nursing process, health assessment techniques, and signs and symptoms of illness.

PN 109 CLINICAL I (0-9-3)(F/S). Clinical application of practical nursing concepts.

PN 122 PHARMACOLOGY (3-0-3)(SU). Introduces pharmacodynamics and pharmacokinetics including drug classifications and principles of drug administration.

PN 124 ADULT HEALTH I (2-0-2)(SU). Biopsychosocial aspects involved in providing nursing for adult clients with well-defined health problems.

PN 126 MATERNAL AND INFANT HEALTH (2-0-2)(SU). Introduces the physiology of pregnancy, labor, delivery, and involution including prenatal, postpartum, and newborn care among diverse populations.

PN 128 GROWTH AND DEVELOPMENT ACROSS THE LIFE SPAN (2-0-2)(SU). Introduces the physical, social, and emotional development of individuals across the life span with an awareness of the impact of culture on development.

PN 129 CLINICAL II (0-15-5)(SU). Clinical application of practical nursing concepts.

PN 202 PEDIATRIC HEALTH (2-0-2)(F/S). Introduces health promotion and common diseases and disorders of children.

PN 204 ADULT HEALTH II (5-0-5)(F/S). Continued study of biopsychosocial aspects involved in providing nursing care to adult clients with well-defined health problems.

PN 206 MENTAL HEALTH (1-0-1)(F/S). Introduces mental health and disease disorders.

PN 208 HEALTH PROMOTION (1-0-1)(F/S). Personal, family, and community wellness including health-seeking behaviors, prevention of illness and disability, and cultural influences on health practices.

PN 209 CLINICAL III (0-24-8)(F/S). Clinical application of practical nursing concepts.

PN 225 CLINICAL PRECEPTORSHIP (0-15-5)(F/S). Clinical application of practical nursing concepts under the supervision of an LPN.

PN 226 MANAGEMENT (3-0-3)(F/S). Introduces the concepts of supervision and management within the scope of practice of the LPN.

PN 228 CLINICAL PRECEPTORSHIP (0-15-5)(F/S). Clinical application of practical nursing and nurse management concepts under the supervision of an LPN.

Recreational and Small Engine Repair Technology

Instructors: Schroeder, Wartman.

Degrees Offered

- T.C., A.T.C., A.A.S., and B.A.S. in Recreational and Small Engine Repair Technology

Program Statement

Leading to a technical certificate, advanced technical certificate, or an associate of applied science degree, the Recreational and Small Engine Repair Technology program includes classroom, lab, and shop experiences directed at maintaining and repairing a variety of 2- and 4- cycle engines used on recreational vehicles and outdoor power equipment including snowmobiles, motorcycles, four-wheelers, watercraft, lawn and garden, and portable power equipment. The instructional units emphasize the complete repair of various types of small engines and the equipment related to its use.

The second year of the program is designed for students, in consultation with the instructor, to specialize in advanced areas of the program.

In addition to advanced technical theory and laboratory, the second year may include laboratory work in a practicum agreement with local industry.

Degree Requirements

Recreational and Small Engine Repair Technology Technical Certificate	
Course Number and Title	**Credits**
APPACAD 111 Applied Communications	3
APPACAD 130 Mechanical Math	1
APPACAD 180 Human Relations at Work	2
SMENGTEC 101 Small Engine Laboratory	9
SMENGTEC 102 Small Engine Laboratory	9
SMENGTEC 129 Introduction to Microcomputers	1
SMENGTEC 141 Small Engine Theory	5
SMENGTEC 142 Small Engine Theory	5
Total	35

Recreational and Small Engine Repair Technology Advanced Technical Certificate	
Course Number and Title	**Credits**
Successful completion of Recreational and Small Engine Repair Technology technical certificate	35
SMENGTEC 201 Advanced Small Engine Lab	9
SMENGTEC 202 Advanced Small Engine Lab	9
SMENGTEC 241 Advanced Small Engine Theory	3
SMENGTEC 242 Advanced Small Engine Theory	3
Total	59

Recreational and Small Engine Repair Technology Associate of Applied Science	
Course Number and Title	**Credits**
Successful completion of Recreational and Small Engine Repair Technology advanced technical certificate except APPACAD 111, APPACAD 130, and APPACAD 180	53
ENGL 101 English Composition **AND**	3
ENGL 102 **OR** COMM 101 **OR** APPACAD 111	3
Area I or II core course in any field	3
Area III core course in mathematics	3-5
Area I, II, or III core course in any field	3-4
16 credits chosen from above. Please refer to the A.A.S. requirements in Chapter 10 for explanation.	
Total	69

Course Offerings

See page 65 for a definition of the course-numbering system.

SMENGTEC — RECREATIONAL AND SMALL ENGINE REPAIR

SMENGTEC 101 SMALL ENGINE LABORATORY (1-18-9)(F). Includes basic application and instruction in repair and overhaul of small engine units with emphasis on lawn and garden equipment.

SMENGTEC 102 SMALL ENGINE LABORATORY (1-18-9)(S). Options include basic repair and maintenance of outdoor power equipment, recreational vehicles, motorcycles, snowmobiles and/or outboard marine engines.

SMENGTEC 129 INTRODUCTION TO MICROCOMPUTERS (1-1-1)(S). Introduces the student to microcomputer skills related to the mechanical technology service field, including DOS and basic word processing.

SMENGTEC 141 SMALL ENGINE THEORY (5-1-5)(F). Includes basic application and instruction of the internal combustion engine and principles of two and four cycle engines, carburetion, and electrical systems are covered.

SMENGTEC 142 SMALL ENGINE THEORY (5-1-5)(S). Includes basic instruction in power train, trouble shooting, fuel systems, ignition systems, and tune-up, on preselected recreational and small engine equipment.

SMENGTEC 201 ADVANCED SMALL ENGINE LABORATORY (1-18-9)(F). Includes advanced application and instruction in repair and overhaul of recreational and small engine units.

SMENGTEC 202 ADVANCED SMALL ENGINE LABORATORY (1-18-9)(S). Includes advanced repair and maintenance of one or more of the following: recreational All Terrain Vehicles (ATV), motorcycles, snowmobiles, personal water craft, outboard marine engines, and outdoor power equipment.

SMENGTEC 241 ADVANCED SMALL ENGINE THEORY (3-1-3)(F). Provides advanced principles and instruction of the two and four cycle engines internal combustion engine, carburetion, and electrical systems.

SMENGTEC 242 ADVANCED SMALL ENGINE THEORY (3-1-3)(S). Includes advanced principles and instruction in power train, clutching, trouble shooting, ignition systems, fuel systems, tune up, and overhaul on preselected recreational and small engine equipment.

Refrigeration, Heating, and Air Conditioning

Instructor: Miller.

Degrees Offered

- T.C., A.T.C., A.A.S., and B.A.S. in Refrigeration, Heating, and Air Conditioning

Program Statement

Leading to a technical certificate, advanced technical certificate, or an associate of applied science degree, the Refrigeration, Heating, and Air Conditioning program offers laboratory experience and theory classes designed to prepare students for entry-level employment. Emphasis is on the servicing of commercial and residential equipment. The program covers all skills and knowledge necessary to repair the equipment, with a strong emphasis on safety.

Degree Requirements

Refrigeration, Heating, and Air Conditioning Technical Certificate	
Course Number and Title	**Credits**
APPACAD 111 Applied Communications	3
APPACAD 136 Applied Technical Math	3
APPACAD 179 Job Seeking Skills	1
APPACAD 180 Human Relations at Work	2
REFHTEC 110 HVAC/R Electrical Applications	3
REFHTEC 115 Control and Schematic Fundamentals	3
REFHTEC 123 Principles of Refrigeration	3
REFHTEC 124 Principles of Refrigeration Lab	5
REFHTEC 133 Heating Systems	2
REFHTEC 134 Heating Systems Lab	3
REFHTEC 143 Air Conditioning Systems	2
REFHTEC 144 Air Conditioning Systems Lab	3
Total	33

Refrigeration, Heating, and Air Conditioning Advanced Technical Certificate	
Course Number and Title	**Credits**
Successful completion of Refrigeration, Heating, and Air Conditioning technical certificate	33
REFHTEC 223 Introduction to DDC Control Operation	3
REFHTEC 224 Advanced HVAC System Control Strategy	3
REFHTEC 225 Air Delivery System Operating, Testing, and Balancing	2
REFHTEC 226 Air Delivery System Operating, Testing, and Balancing Lab	1
REFHTEC 227 Water System Operating, Testing and Balancing	3
REFHTEC 229 Commercial and Industrial HVAC/R Systems I	2
REFHTEC 230 Commercial and Industrial HVAC/R Systems II	2
REFHTEC 231 DDC Control Programming I	3
REFHTEC 232 DDC Control Programming Lab I	2
REFHTEC 233 DDC Control Programming II	3
REFHTEC 234 DDC Control Programming Lab II	2
Total	59

Refrigeration, Heating, and Air Conditioning Associate of Applied Science	
Course Number and Title	**Credits**
Successful completion of Refrigeration, Heating, and Air Conditioning advanced technical certificate except APPACAD 111, APPACAD 136, APPACAD 179, and APPACAD 180	50
ENGL 101 English Composition **AND** ENGL 102 **OR** COMM 101 **OR** APPACAD 111 Area I or II core course in any field Area III core course in mathematics Area I, II, or III core course in any field 16 credits chosen from above. Please refer to the A.A.S. requirements in Chapter 10 for explanation.	3 3 3 3-5 3-4
Total	66

Course Offerings

See page 65 for a definition of the course-numbering system.

REFHTEC — REFRIGERATION, HEATING, AND AIR CONDITIONING

REFHTEC 110 HVAC/R ELECTRICAL APPLICATIONS (3-0-3)(F/S). Introduction to electricity and electronics as applied to heating, refrigeration, and air conditioning. Basic Ohm's law, DC/AC theory, transformers, motors, relays, and electrical generation/distribution.

REFHTEC 115 CONTROL AND SCHEMATIC FUNDAMENTALS (3-0-3)(F/S). Basic controls and wiring schematics used on residential and light commercial heating, refrigeration, and air conditioning equipment. Emphasizes generic approach while studying specific manufacturer's pictorial and ladder schematic diagrams. PREREQ: REFHTEC 110.

REFHTEC 123 PRINCIPLES OF REFRIGERATION (3-0-3)(F/S). Introduction to the basic refrigeration cycle, thermodynamics, application of pressure-enthalpy diagrams, and major refrigeration components and systems. Refrigerant properties, transferring, evacuation, and system reprocessing. COREQ: REFHTEC 124.

REFHTEC 124 PRINCIPLES OF REFRIGERATION (0-15-5)(F/S). Lab to support REFHTEC 123. COREQ: REFHTEC 123.

REFHTEC 133 HEATING SYSTEMS (2-0-2)(F/S). Heating equipment used in residential, light commercial, and industrial: gas, electric, oil, and hot water. Combustion analysis, tools, instruments, efficiency measurements, troubleshooting, maintenance, and repair procedures.

REFHTEC 134 HEATING SYSTEMS LAB (0-9-3)(F/S). Lab to support REFHTEC 133. COREQ: REFHTEC 133.

REFHTEC 143 AIR CONDITIONING SYSTEMS (2-0-2)(F/S). Mechanical air conditioning equipment used in comfort cooling and heat pump applications. Duct sizing, heat load calculation, psychrometries, capacity testing, mechanical/electrical troubleshooting of residential and light commercial applications. PREREQ: REFHTEC 123. COREQ: REFHTEC 144.

REFHTEC 144 AIR CONDITIONING SYSTEMS LAB (0-9-3)(F/S). Lab to support REFHTEC 143. COREQ: REFHTEC 143.

REFHTEC 223 INTRODUCTION TO DDC CONTROL OPERATION (3-0-3)(F/S). DDC (Direct Digital Control) system architecture and operator use. Manipulating system inputs/outputs from operator terminals, navigating through system front ends, trending system operation, and an introduction to DDC panels and hardware.

REFHTEC 224 ADVANCED HVAC SYSTEM CONTROL STRATEGY (3-0-3)(F/S). Hot and chilled water loop system control strategy. Energy saving practices used in the HVAC (Heating, Ventilation, and Air Conditioning) industry including duty cycling, start/stop time optimization, economizers, warm-up and setback methods, and temperature control reset.

REFHTEC 225 AIR DELIVERY SYSTEM OPERATING, TESTING, AND BALANCING (2-0-2)(F/S). Installation, operation, testing and balancing of air systems. Fan-type analysis and selection, flow measurement and calculations; and damper sizing, selection and operation. Variable air volume and constant volume air systems. COREQ: REFHTEC 226.

REFHTEC 226 AIR DELIVERY SYSTEM OPERATING, TESTING, AND BALANCING LAB (0-3-1)(F/S). Lab to support REFHTEC 225. COREQ: REFHTEC 225.

REFHTEC 227 WATER SYSTEM OPERATING, TESTING, AND BALANCING (3-0-3)(F/S). Installation, operation, testing and balancing of hydronic systems. Pump-type analysis and selection, flow measurement and calculations, water treatment; and valve sizing, selection and operation. PREREQ: REFHTEC 225 or PERM/INST.

REFHTEC 229 COMMERCIAL AND INDUSTRIAL HVAC/R SYSTEMS I (2-0-2)(F/S). Commercial and industrial refrigeration system configurations, components, and applications.

REFHTEC 230 COMMERCIAL AND INDUSTRIAL HVAC/R SYSTEMS II (2-0-2)(F/S). Commercial and industrial refrigeration systems and auxiliary support equipment with emphasis on compressor capacity control, defrost, oil separation, and refrigerant control.

REFHTEC 231 DDC CONTROL PROGRAMMING I (3-0-3)(F/S). Introduction to HVAC control programming. Step-by-step procedures for creating logical control programs and databases. Basic computer operations required for using DDC Systems will also be covered. PREREQ: REFHTEC 223 or PERM/INST. COREQ: REFHTEC 232.

REFHTEC 232 DDC CONTROL PROGRAMMING LAB I (0-6-2)(F/S). Lab to support REFHTEC 231. COREQ: REFHTEC 231.

REFHTEC 233 DDC CONTROL PROGRAMMING II (3-0-3)(F/S). Write, test, and troubleshoot programs used in real-world HVAC control applications. PREREQ: REFHTEC 231. COREQ: REFHTEC 234.

REFHTEC 234 DDC CONTROL PROGRAMMING LAB II (0-6-2)(F/S). Lab to support REFHTEC 233. COREQ: REFHTEC 233.

Semiconductor Manufacturing Technology

Instructors: Dunn, Jozwiak, Lonsdale.

Degrees Offered

- T.C., A.T.C., A.A.S., and B.A.S. in Semiconductor Manufacturing Technology

Program Statement

Leading to an advanced technical certificate and an associate of applied science degree, the Semiconductor Manufacturing Technology program prepares students as entry-level semiconductor manufacturing technicians within the industry. Graduates can expect to install, update, and maintain the close tolerance equipment and facilities used to manufacture, encapsulate, test, and ship semiconductor products.

Degree Requirements

Semiconductor Manufacturing Technology Process Emphasis Technical Certificate	
Course Number and Title	**Credits**
APPACAD 139 Applied Algebra and Trigonometry APPACAD 179 Job Seeking Skills APPACAD 180 Human Relations at Work APPACAD 221 Technical Report Writing	4 1 2 3
CHEM 115 Materials Science Chemistry	4
ELCTEC 151L DC Electronics Laboratory ELCTEC 152L AC Electronics Laboratory ELCTEC 151 DC Electronics Theory ELCTEC 152 AC Electronics Theory	2 2 3 2
MACHTEC 100 Hand Tools	1
MFGTEC 201 Quality Assurance and Statistical Process Control	4
SEMITEC 181 Introduction to Microfabrication SEMITEC 212 Vacuum SEMITEC 215 RF Energy and Plasma SEMITEC 282 Advanced Microfabrication	4 2 2 3
Total	39

Semiconductor Manufacturing Technology Advanced Technical Certificate	
Course Number and Title	**Credits**
Successful completion of Semiconductor Manufacturing Technology technical certificate	39
APPACAD 111 Applied Communications	3
ELCTEC 162 Intro to Digital Systems ELCTEC 163 Intro to Digital Systems Lab ELCTEC 172 Solid State Devices ELCTEC 173 Solid State Devices Lab ELCTEC 200 CET Certification (Recommended but not required) ELCTEC 225 Programmable Logic Controllers ELCTEC 226 Programmable Logic Controllers Lab ELCTEC 241 Instrumentation ELCTEC 242 Instrumentation Lab	3 1 3 3 (1) 1 1 3 1

—continued—

Semiconductor Manufacturing Technology, A.T.C. (continued)	
MFGTEC 210 Introductory Robotics	2
MFGTEC 215 Pneumatic Control	2
MFGTEC 231 Technical Physics	4
Total	66

Semiconductor Manufacturing Technology Associate of Applied Science	
Course Number and Title	**Credits**
Successful completion of Semiconductor Manufacturing Technology advanced technical certificate except APPACAD 111, APPACAD 179, APPACAD 180, APPACAD 221, and CHEM 115	53
ENGL 101 English Composition **AND** ENGL 102 **OR** COMM 101 **OR** APPACAD 111 Area I or II core course in any field Area III core course in mathematics CHEM 115 Materials Science Chemistry 16 credits chosen from the above. Please refer to the A.A.S. requirements in Chapter 10 for explanation.	3 3 3 3-5 4
Total	69

Course Offerings

See page 65 for a definition of the course-numbering system.

SEMITEC — SEMICONDUCTOR TECHNOLOGY

SEMITEC 181 INTRODUCTION TO MICROFABRICATION (3-3-4)(F/S). Introduction to the technology used to manufacture micro-electronic circuits on silicon wafers. Includes detailed descriptions of processes and equipment used in oxidation, photolithography, etching, ion implantation, and thin film deposition. Lab activities provide hands-on practice in these processes. PREREQ: APPACAD 139 or equivalent.

SEMITEC 212 VACUUM (1-3-2)(F/S). Use of high vacuum technology for ultra-clean materials processing. Includes vacuum safety, equipment, measurement, control, leak detection, and residual gas analysis (RGA) with accompanying lab activities. PREREQ: APPACAD 139 or equivalent.

SEMITEC 215 RF ENERGY AND PLASMA (1-3-2)(F/S). Use of radio frequency (RF) energy for the generation and control of plasma. Includes RF safety, high power equipment, impedance matching, transmission lines, and process applications with accompanying lab activities. PREREQ: ELCTEC 152 or equivalent and SEMITEC 212.

SEMITEC 282 ADVANCED MICROFABRICATION (2-3-3)(F/S). Advanced concepts in microelectronics processing and nanotechnology. Includes planarization, assembly, measurement and characterization, advanced sub-micron lithography, and micro-electromechanical systems (MEMS). Lab activities provide hands-on practice in these processes. PREREQ: SEMITEC 181.

Surgical Technology

Instructor: Bourbonnais.

Degree Offered

- T.C. in Surgical Technology

Program Statement

Leading to a three-semester technical certificate that begins summer semester, the Surgical Technology program consists of competency-based classroom, laboratory, and clinical instruction, offered in conjunction with area hospitals. The program is accredited by the Commission on Accreditation of Allied Health Education programs (CAAHEP). After completing the program, students are eligible to take the National Certification Exam for Surgical Technologists.

Classroom and laboratory work includes instruction and practice in operating room techniques, infection prevention and control, care of surgical patients, and human anatomy and physiology. Clinical experience includes supervised hands-on hospital experience in scrubbing for a variety of surgical procedures. Failure to meet requirements in the theory or clinical areas may result in termination from the program.

All students accepted into the Surgical Technology programs 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 program website to obtain more information about this policy.

Degree Requirements

Surgical Technology Technical Certificate	
Course Number and Title	**Credits**
APPACAD 103 Health Professions Math	2
APPACAD 111 Applied Communication	3
APPACAD 180 Human Relations at Work	2
BIOL 107 Introduction to Human Biology	4
SURGTEC 100 Introduction & Basic Sciences	3
SURGTEC 101 Operating Room Techniques	5
SURGTEC 102 Sterilization & Disinfection	1
SURGTEC 103 Surgical Technological Sciences	1
SURGTEC 105 Applied Medical Terminology	2
SURGTEC 110 Preparation of Surgical Patient	3
SURGTEC 111 Surgical Procedures	6
SURGTEC 116 Peri Operative Care Surgical Patient	1
SURGTEC 132 Surgery Clinical Practice	8
SURGTEC 150 Job-Seeking Skills	1
Total	42

Course Offerings

See page 65 for a definition of the course-numbering system.

SURGTEC — SURGICAL TECHNOLOGY

SURGTEC 100 INTRODUCTION AND BASIC SCIENCES (3-0-3)(F). The study of: (1) the health care team and its language; (2) the evolution of asepsis; (3) ethical, moral and legal responsibilities; (4) the operating room suite; (5) principles of asepsis; (6) introduction to pharmacology; (7) introduction to oncology; (8) disease conditions; (9) diagnostic procedures; and (10) communication in surgical technology, including introduction to computers.

SURGTEC 101 OPERATING ROOM TECHNIQUES (3-4-5)(F). Safety, economy, equipment and supplies, and the basic fundamental duties of the surgical technologist in the pre-operative, intra-operative, and post-operative phases.

SURGTEC 102 STERILIZATION AND DISINFECTION (1-1-1)(F). Introduction to microorganisms with emphasis on sterilization and disinfection methods.

SURGTEC 103 SURGICAL TECHNOLOGICAL SCIENCES (1-0-1)(F/S). Biomedical sciences as they relate to the operating room including physics, electricity, robotics, and computer skills.

SURGTEC 105 APPLIED MEDICAL TERMINOLOGY (2-0-2)(SU). Language of medicine organized into basic word structure (prefixes, roots, suffixes) and terms pertaining to the body systems.

SURGTEC 110 PREPARATION OF THE SURGICAL PATIENT (2-3-3)(F). The study and practice designed to enable the student to become skilled in assisting with the preparation, transportation, positioning, and anesthesia of the surgical patient.

SURGTEC 111 SURGICAL PROCEDURES (6-0-6)(S). Brief history, relevant anatomy, and special considerations for general surgical procedures: orthopedic surgery; obstetric and gynecological procedures; genitourinary surgery; plastic surgery; ophthalmic surgery; ear, nose, throat, and oral surgery; neurosurgery; cariothoracic surgery; and peripheral vascular surgery.

SURGTEC 116 PERI OPERATIVE CARE OF SURGICAL PATIENT (1-2-1)(S). The study of patient care in recovery room, outpatient surgery, and emergency room procedures.

SURGTEC 132 SURGERY CLINICAL PRACTICE (0-24-8)(S). Clinical experience in surgery, scrubbing, and orientation to circulating.

SURGTEC 150 JOB-SEEKING SKILLS (1-0-1)(F/S). The study and application of principles for the workplace including customer relations, employee rights, interpersonal relations, and resume writing.

Welding and Metals Fabrication

Instructor: Allen, Diamond, Martinez.

Degree Offered

• T.C., A.T.C., A.A.S., and B.A.S. in Welding and Metals Fabrication

Program Statement

The Welding and Metals Fabrication program provides students with instruction, practical experience, and related theory in shielded metal arc welding, gas metal arc welding, flux-cored arc welding, gas tungsten arc welding, manual and automatic oxy-acetylene burning, brazing, soldering, air carbon arc gouging, and plasma arc gouging and cutting. Students learn blueprint reading and layout skills and apply them using computer numerically controlled (CNC) metal working equipment.

Degree Requirements

Welding and Metals Fabrication Technical Certificate

Course Number and Title	Credits
APPACAD 111 Applied Communication	3
APPACAD 120 Basic Math Applications	1
APPACAD 179 Job Seeking Skills	1
APPACAD 180 Human Relations at Work	2
WELD 125 Blueprint Reading and Layout I	2
WELD 126 Blueprint Reading and Layout II	2
WELD 127 Blueprint Reading and Layout III	2
WELD 128 Blueprint Reading and Layout IV	2
WELD 155 Welding Theory I	1
WELD 155L Welding Laboratory I	4
WELD 156 Welding Theory II	1
WELD 156L Welding Laboratory II	4
WELD 157 Welding Theory III	1
WELD 157L Welding Laboratory III	4
WELD 158 Welding Theory IV	1
WELD 158L Welding Laboratory IV	4
Total	35

Welding and Metals Fabrication Advanced Technical Certificate

Course Number and Title	Credits
Successful completion of Welding and Metals Fabrication technical certificate	35
WELD 225 Blueprint Reading and Layout V	2
WELD 226 Blueprint Reading and Layout VI	2
WELD 227 Blueprint Reading and Layout VII	2
WELD 228 Blueprint Reading and Layout VIII	2
WELD 255 Welding V	4
WELD 256 Welding VI	4
WELD 257 Welding VII	4
WELD 258 Welding VIII	4
Total	59

Welding and Metals Fabrication Associate of Applied Science

Course Number and Title	Credits
Successful completion of Welding and Metals Fabrication advanced technical certificate except APPACAD 111, APPACAD 120, APPACAD 179, and APPACAD 180	52
ENGL 101 English Composition **AND**	3
ENGL 102 **OR** COMM 101 **OR** APPACAD 111	3
Area I or II core course in any field	3
Area III core course in mathematics	3-5
Area I, II, or III core course in any field	4
16 credits chosen from the above. Please refer to the A.A.S. requirements in Chapter 10 for explanation.	
Total	68

Course Offerings

See page 65 for a definition of the course-numbering system.

WELD — WELDING AND METALS FABRICATION

WELD 125 BLUEPRINT READING AND LAYOUT I (1-2-2)(F). Basics of orthographic drawing, layout, and supporting topics in math.

WELD 126 BLUEPRINT READING AND LAYOUT II (1-2-2)(F). Basics of layout and fabrication techniques for plate and gauge material and supporting topics in math. PREREQ: WELD 125.

WELD 127 BLUEPRINT READING AND LAYOUT III (1-2-2)(S). Blueprint reading, welding symbols, and AWS D1.1 welding codes. PREREQ: WELD 126.

WELD 128 BLUEPRINT READING AND LAYOUT IV (1-2-2)(S). Blueprint reading, welding symbols, and AWS D1.5 welding codes. PREREQ: WELD 127.

WELD 155 WELDING THEORY I (1-0-1)(F). Basic welding theory, manual and automatic oxy-acetylene burning, electrode selection, continuous wire feed processes, welder qualification tests, CNC press brake, CNC plasma, properties of metals, material identification and basic metallurgy. COREQ: WELD 155L.

WELD 155L WELDING LABORATORY I (0-12-4)(F). COREQ: WELD 155.

WELD 156 WELDING THEORY II (1-0-1)(F). CNC plasma cutting, GTAW purge welding, GTAW and GMAW process control, and welder qualification testing. PREREQ: WELD 155. COREQ: WELD 156L.

WELD 156L WELDING LABORATORY II (0-12-4)(F). COREQ: WELD 156.

WELD 157 WELDING THEORY III (1-0-1)(S). Welding sheet metal with the GTAW and GMAW processes, control of arc blow and welding distortion, carbon arc cutting, CNC plasma cutting, and welder qualification testing. PREREQ: WELD 156. COREQ: WELD 157L.

WELD 157L WELDING LABORATORY III (0-12-4)(S). COREQ: WELD 157.

WELD 158 WELDING THEORY IV (1-0-1)(S). CNC press brake, materials identification, properties of metals, and basic metallurgy. PREREQ: WELD 157. COREQ: WELD 158L.

WELD 158L WELDING LABORATORY IV (0-12-4)(S). COREQ: WELD 158.

WELD 225 BLUEPRINT READING AND LAYOUT V (1-2-2)(F/S). Introduction to geometric construction principles, pipe fitting layout, and fit up practices including layout software. Basic CNC press brake operation. Introduction to CAD. PREREQ: WELD 128.

WELD 226 BLUEPRINT READING AND LAYOUT VI (1-2-2)(F/S). Introduction to CNC press brake lay out. Introduction to CNC plasma programming and operating principles. PREREQ: WELD 225.

WELD 227 BLUEPRINT READING AND LAYOUT VII (1-2-2)(F/S). Advanced pipe layout, CNC press brake programming and operating principles. Intermediate CAD. PREREQ: WELD 226.

WELD 228 BLUEPRINT READING AND LAYOUT VIII (1-2-2)(F/S). Advanced CNC plasma programming. Advanced CAD. PREREQ: WELD 227.

WELD 255 WELDING V (0-12-4)(F/S). Intermediate welding theory, manual and automatic oxy-acetylene cutting, electrode selection, continuous wire feed processes, and welder qualification tests. PREREQ: WELD 158.

WELD 256 WELDING VI (0-12-4)(F/S). Continued intermediate welding theory, properties of metals, material identification and metallurgy, destructive and non-destructive testing. PREREQ: WELD 255.

WELD 257 WELDING VII (0-12-4)(F/S). Advanced welding theory, pipefitting and preparation, site welding safety, and practical considerations. PREREQ: WELD 256.

WELD 258 WELDING VIII (0-12-4)(F/S). Automation and robotics in orbital, automated linear, submerged arc, and car industry environments. Overview of new technologies. PREREQ: WELD 257.

Administration and Faculty

Boise State University Administration

President
Robert W. Kustra

Provost and Vice President for Academic Affairs
Sona Andrews

Associate Vice President for Academic Planning
James Munger

Associate Vice President for Undergraduate Studies
Sharon McGuire

Vice President for Finance and Administration
Stacy Pearson

Vice President for Student Affairs
Michael Laliberte

Vice President for University Advancement
Howard Smith

Vice President for Research
Mark Rudin

Dean of University Libraries
Marilyn K. Moody

College of Arts and Sciences
Dean, Martin Schimpf
Associate Dean, Helen Lojek

College of Business and Economics
Interim Dean, Diane Schooley-Pettis
Associate Dean, Shikhr Sarin
Associate Dean for Graduate Studies and Executive Education, Kirk Smith

College of Education
Dean, Diane Boothe
Associate Dean, Ross Vaughn

College of Engineering
Dean, Cheryl B. Schrader
Associate Dean, Janet Callahan
Assistant Dean, Rex Oxford

College of Health Science
Dean, James Girvan
Associate Dean, Pam Springer
Associate Dean, Sarah Toevs

College of Social Sciences and Public Affairs
Dean, Melissa Lavitt
Associate Dean, L. Shelton Woods

Graduate College
Dean, John R. Pelton
Associate Dean, Alfred Dufty

Larry Selland College of Applied Technology
Interim Dean, Vera McCrink
Associate Dean of Enrollment Management and Student Success, Victor Watson
Associate Dean of Community, Economic and Workforce Training, Stan Brings

Division of Extended Studies
Dean, Mark Wheeler
Associate Dean, Kenneth Brauchle

Boise State University Faculty
Full-Time Official Faculty as of February 2008

NOTE: The date listed is the year of first appointment.

A

Ahmed-Zaid, Said ..... (1996)
Associate Professor, Electrical and Computer Engineering; Ph.D., University of Illinois at Urbana-Champaign

Ahten, Sara M. ..... (2002)
Assistant Professor, Nursing; B.S. University of Illinois, Springfield

Allen, Robert L. ..... (1976)
Program Head and Senior Instructor, Industrial Maintenance Technology; B.A., Boise State University

Allen, Robin W. ..... (1997)
B.A. Coordinator and Associate Professor, Social Work; Ph.D., University of Illinois at Urbana-Champaign

Allerton, Barbara ..... (1993)
Assistant Professor, Nursing; M.S., Virginia Commonwealth University

Allred, Keith W. ..... (2007)
Chair and Associate Professor, Special Education and Early Childhood Studies; Ph.D., Vanderbilt University

Alm, Leslie ..... (1991)
Chair, Director of Graduate Studies, and Professor, Public Policy and Administration; Ph.D., Colorado State University

Andersen, Timothy ..... (2001)
Associate Professor, Computer Science; Ph.D., Brigham Young University

Anderson, Bartt ..... (2006)
Interim Instructor, Computer Service Technology;

Anderson, Holly L. ..... (1989)
Professor, Curriculum, Instruction, and Foundational Studies; Ph.D., Utah State University

Anderson, Jeffrey M. ..... (1986)
Director, Clinical Education and Associate Professor, Respiratory Care; M.A., Boise State University

Andrews, Sona Karentz ..... (2004)
Provost and Vice President for Academic Affairs and Professor, Geosciences; Ph.D., Arizona State University

Anooshian, Linda James ..... (1988)
Professor, Psychology; Ph.D., University of California, Riverside

Anson, Robert ..... (1990)
Professor, Information Technology and Supply Chain Management; Ph.D., Indiana University

Armstrong, James ..... (1992)
Professor, Literacy; Ph.D., University of Illinois at Urbana-Champaign

Ashworth, Lonny J. ..... (1977)
Chair and Professor, Respiratory Care; M.Ed., College of Idaho

Atlakson, Philip ..... (1985)
Professor, Theatre Arts; M.A., State University of New York, Binghamton

B

B

Babinkostova, Liljana ..... (2007)
Assistant Professor, Mathematics, Ph.D., University of St. Cyril and Methodius, Macedonia

Bacon, Stephanie ..... (1996)
Associate Professor, Art; M.F.A., Brooklyn College

Bahnson, Paul R. ..... (1999)
Interim Associate Dean, College of Business and Economics, Professor, Accountancy; Ph.D., University of Utah

Bahruth, Robert ..... (1988)
Professor, Bilingual Education; Ph.D., University of Texas, Austin

Baker, Ed (2002)
Associate Professor, Community and Environmental Health; Ph.D., Temple University

Baker, Russel Jacob ..... (2000)
Professor, Electrical and Computer Engineering; Ph.D., University of Nevada-Reno

Baldassarre, Joseph A ..... (1975)
Professor, Music; D.M.A., Case Western Reserve University

Baldwin, John B. ..... (1971)
Professor, Music; Ph.D., Michigan State University

Ball, Jeremy ..... (2004)
Assistant Professor, Criminal Justice; Ph.D., University of Nebraska-Omaha

Ballenger, Bruce ..... (1995)
Associate 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, Chemistry and Biochemistry; Ph.D., University of New Orleans

Barbour, Barton ..... (2001)
Associate Professor, History; Ph.D., University of New Mexico

Barney Smith, Elisa ..... (1999)
Associate Professor, Electrical and Computer Engineering; Ph.D., Rensselaer Polytechnic Institute

Barney, L. Dwayne ..... (1986)
Professor, Marketing and Finance; Ph.D., Texas A&M University

Battalio, John T. ..... (1995)
Associate Professor, English; Ph.D., Texas A & M University

Baughn, C. Christopher ..... (1995)
Professor, Management; Ph.D., Wayne State University

Bazemore, Norris S. Jr. ..... (1998)
Reference Librarian, Library and Associate Professor, Library Science; M.L.S., University of South Carolina, Columbia

Beal, Alex (2006)
Interim Instructor, Heavy Duty Truck Technician; B.A., Boise State University

Bechard, Marc Joseph ..... (1983)
Professor, Biological Sciences; Ph.D., Washington State University

Beckman, Terrie L. ....(1990)
Senior Instructor, Dental Assisting; B.S., University of Idaho

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)
Chair and Professor, Biological Sciences; Ph.D., Clemson University

Benner, Shawn ....(2004)
Assistant Professor, Geosciences; Ph.D., University of Waterloo

Benson, Lynda ....(2000)
Program Head and Advanced Instructor, Business Technology; B.S.Ed., University of Idaho

Benton, Danny ....(1983)
Program Head and Standard Instructor, Drafting Technology; B.S., La Salle Extension University

Berg, Lynn R. ....(1984)
Professor, Music; D.M.A., University of Wisconsin, Madison

Bieter, John Jr. ....(2004)
Assistant Professor, History, Ph.D., Boston College

Birdsall, Bobbie A. ....(1995)
Associate Professor, Counselor Education; Ph.D., Oregon State University

Bixby, Michael B. ....(1981)
Professor, Management; J.D., University of Michigan at Ann Arbor

Black, Geoffrey Alan ....(2000)
Chair and Associate Professor, Economics; Ph.D., University of Washington

Black, Mikal ....(2004)
Assistant Professor, Nursing; M.S., Gonzaga University

Blackburn, Leslie ....(1992)
Program Head and Advanced Instructor, Horticulture; B.A.S., Boise State University

Blain, Michael ....(1982)
Professor, Sociology; Ph.D., University of Colorado

Blakeslee, Laurie ....(2000)
Associate Professor, Art; M.F.A., University of Arizona

Blankenship, Michael ....(2002)
Professor, Criminal Justice; Ph.D., Sam Houston State University

Bodi, Nancy (Dusty) ....(2003)
Assistant Professor, Management; Ph.D., University of Illinois at Chicago

Boothe, Diane ....(2005)
Dean and Professor, College of Education, D.P.A., University of Southern California

Borge, Matthew ....(2001)
Advanced Instructor, Computer Network Technology; B.A.S., Boise State University

Bostaph, Lisa G. ....(2003)
Assistant Professor, Criminal Justice; Ph.D., University of Cincinnati

Boucher, Teresa ....(1994)
Chair and Professor, Modern Languages and Literatures; Ph.D., Princeton University

Bourbonnais, Mona ....(1999)
Program Head and Advanced Instructor, Surgical Technology; Certificate., Boise State University

Bowers, Donald R. ....(2003)
Standard Instructor, Computer Networking Technology, B.A., Eugene Bible College

Bowers, Susan ....(2005)
Assistant Professor, Nursing; D.Ed., University of South Dakota

Bradford, John ....(2001)
Assistant Professor, Geosciences; Ph.D., Rice University

Brady, Lisa Marie ....(2003)
Assistant Professor, History; Ph.D., University of Kansas

Bratt, J. Wallis ....(1970)
Associate Professor, Music; M.M., University of Utah

Brendefur, Jonathan ....(2000)
Associate Professor, Curriculum, Instruction, and Foundational Studies; Ph.D., University of Wisconsin, Madison

Brennan, James W. ....(1997)
Senior Instructor, Applied Academics; M.S., University of California at Davis

Brill, Stephen H. ....(1998)
Associate Professor, Mathematics; Ph.D., University of Vermont

Brin, Beth L. ....(1995)
Reference Librarian and Associate Professor, Library Science; M.L.S., San Jose State University

Brings, Stanley D. ....(1999)
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Britton, Jean ....(2003)
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Pfautsch, Glenn.... (2000)
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Pierce, Jennifer .... (2005)
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Plew, Mark G....(1984)
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Plumlee Jr., Donald Gene ....(2007)
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Pollard, Constance....(1993)
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Prengaman, Molly.... (2005)
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Pritchard, Mary E. .... (2004)
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Punnoose, Alex .... (2002)
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Ramirez-Dhoore, Dora Alicia.... (2006)
Assistant Professor, English, Ph.D., University of Nebraska-Lincoln
Ransdell, Lynda.... (2004)
Chair and Professor, Kinesiology; Ph.D., Arizona State University
Ray, Nina M....(1986)
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Rayburn, Steven .... (2004)
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Reavy, Kathleen.... (2000)
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Reeder, Heidi.... (2000)
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Reese, Melanie J.... (2000)
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Reimann, Richard J....(1975)
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Reinhart ,Gordon ....(1999)
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Robbins, Bruce....(1990)
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Robertson, Ian C. .... (2000)
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Wood, Jennifer ..... (2005)
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Y

Yeh, Jyh-haw..... (2000)
Assistant Professor, Computer Science; Ph.D., University of Florida
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Young, Richard.....(1994)
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Assistant Professor, Physics; Ph.D., Peking University
Ziker, John P.....(2003)
Assistant Professor, Anthropology; Ph.D., University of California, Santa Barbara
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Andersen, Rudy A., Chair & Associate Professor, Health Studies (1993-2003)
Anderson, Robert M., Professor, Mathematics (1971-2002)
Arambarri, Gary, Manager and Senior Instructor, Center for Construction and Transportation Technology (1975-2005)
Baker, Charles W., Professor, Biology (1968-2000)
Baker, Richard P., Professor, Sociology (1973-2006)
Baldner, Ronald, Program Head and Senior Instructor, Welding (1978-2003)
Banks, Richard C., Professor, Chemistry (1969-2002)
Barnes, John B., President, Boise State University (1967-1977)
Barnhardt, Larry, Dean, Selland College of Applied Technology (1997-2007)
Barr, Robert, Professor, Curriculum, Instruction & Foundational Studies (1991-2006)
Barsness, Wylla D., Professor, Psychology (1968-1992)
Beitia, John, Professor, Teacher Education (1970-1985)
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Dodson, Jerry P., Professor, Psychology (1971-2003)
Donaldson, Paul, Professor, Geosciences (1975-2005)
Donoghue, Dennis, Professor, Political Science (1973-2002)
Dorman, Patricia, Chair & Professor, Sociology (1967-2002)
Douglas, Dorothy, Professor, Biology (1981-1998)
Downs, Richard R., Counseling Psychologist & Associate Professor, Counseling & Testing Center (1976-2004)
Eastman, Phil, Dean, College of Arts & Sciences & Professor, Mathematics (1977-2005)
Elliott, Catherine, Professor, Music (1969-1997)
Elliott, Wilber D., Professor, Music (1969-1994)
Ellis, Robert W., Professor, Chemistry (1969-2004)
Erickson, Gary, Chair and Professor, Electrical & Computer Engineering (1996-2006)
Ericson, Robert E., Associate Professor, Theatre Arts (1969-1994)
Everts, Evelyn C., Associate Professor, Library Science (1957-1978)
Feldman, Alex, Associate Professor, Mathematics (1988-2007)
Ferguson, David, Associate Professor, Mathematics (1970-1997)
Fletcher, Allen W., Professor, History (1971-2002)
Forte, Madeleine DeMory Hsu, Professor, Music (1971-1997)
Fountain, Carol E., Associate Professor, Nursing (1967-1999)
Frederick, E. Coston, Professor, Teacher Education (1971-1992)
French, Judy, Professor, Early Childhood Studies (1976-2006)
Friedli, Robert L., Professor, Foundations, Technology and Secondary Education (1973-2002)
Fuhriman, Jay R., Chair & Professor, Bilingual Education (1977-2004)
Fuller, Eugene G., Professor, Biology (1967-2000)
Gabert, Marvin, Professor, Construction Management (1979-2006)
Gaines, Marlin L., Advanced Instructor, Automotive Technology (1980-2007)
Gourley, Margaret, Advanced Instructor, Child Care & Development (1977-1992)
Griffin, John H., Associate Professor, Computer Science (1983-2007)
Groebner, David F., Professor, Networking, Operations, and Information Systems (1973-2005)
Guilford, Charles, Associate Professor, English (1971-2004)
Hadden, James E., Assistant Professor, English (1971-2004)
Haeffer, James, Associate Professor, Engineering (1982-1997)
Hanlon, Heather, Professor, Art (1991-2005)
Hansen, Ralph W., Associate University Librarian, Professor, Library Science (1979-1989)
Harbison, Warren, Professor, Philosophy (1977-2005)
Harrison, Teresa, Assistant Professor, Curriculum, Instruction and Foundational Studies (1997-2005)
Hart, Richard L., Dean, College of Education, Professor, Teacher Education (1977-1991)
HeaFelix, Professor, Art (1979-2003)
Hibbs, Robert A., Professor, Chemistry (1965-1990)
Hill, Kenneth L., Associate Dean, College of Education, Professor, Teacher Education (1968-1991)
Hollenbaugh, Kenneth M., Dean, Graduate College and Research Administration, Professor of Geosciences (1969-2002)
Hoopes, Gaye, Associate Professor, Art (1978-2002)
Hopfenbeck, Ted H., Associate Professor, Criminal Justice Administration (1967-1995)
HufDaniel D., Professor, Social Work (1970-2006)
HufHoward L., Professor, Art (1965-1999)
Hughes, Robert B., Professor, Mathematics & Computer Science (1971-2001)
Jansson, Paul R., Senior Instructor, Center for Manufacturing Technology (1982-2003)
Jensen, John H., Interim Associate Dean, College of Education and Professor, Teacher Education (1969-2000)
Jocums, George, Associate Professor, Modern Languages (1973-1998)

Jones, Daryl E., Provost & Vice President for Academic Affairs & Professor, English (1986-2004)
Jones, Errol Dean, Professor, History (1982-2007)
Juola, Robert C., Professor, Mathematics (1970-2000)
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)
Kober, Alfred J., Professor, Art (1968-1999)
Kozar, Bill, Professor, Kinesiology (1989-2005)
LaCava, Jerry, Professor, Network, Operations & Information Systems (1982-2005)
Lambert, Carroll C., Professor, Elementary Education & Specialized Studies (1977-2003)
Lamborn, Ellis W., Professor, Economics (1968-1989)
Lamborn, Max, Instructor, Parts Counterperson (1972-1981)
Lamet, Dan, Professor, Mathematics (1970-2005)
LaRiviere, Sara, Associate Professor, Health Studies (1989-2005)
Lauterbach, Charles E., Professor, Theatre Arts (1972-2002)
Leahy, Margaret K., Assistant Professor & Program Coordinator, Nursing (1982-2005)
Leahy, Richard, Professor, English (1972-2003)
Lewis, Ray, Associate Professor, Health, Physical Education, and Recreation (1956-1994)
Lichtenstein, Peter M., Professor, Economics (1975-2006)
Limaye, Mohan, Professor, Marketing & Finance (1993-2003)
Lindsey, Melinda, Professor, Special Education (1987-2007)
Lovin, Hugh T., Professor, History (1965-1992)
Luke, Robert A., Chair and Professor, Physics (1968-2004)
Lundy, Phoebe, Associate Professor, History (1966-2001)
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)
MalooGiles W., Professor, Mathematics (1968-2000)
ManshiDarwin W., Professor, Business Communication (1970-1991)
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)
McCloskey, Richard J., Professor & Coordinator of Teacher Education, Academic Advisor, Biology (1976-2006)
Merz, C. Michael, Professor, Accountancy (1974-1999)
Metzgar, Wanda, Senior Instructor, Business/Management Technology (1976-2005)
Mikesell, Charles, Senior Instructor, Applied Technology (Auto Mechanics) (1976-1995)
Miller, Beverly A., Reference Librarian & Professor, Library (1968-2006)
Miller, Margaret Maggie, Professor, Counselor Education (1994-2007)
Murray, Judith A., Associate Professor, Nursing (1990-2002)
Nelson, Anne Marie, Associate Professor, Counselor Education (1968-2003)
Newby, Gary R., Professor, Physics (1966-2000)
Nicholson, James A., Director, Counseling Services (1984-2007)
Nickerson, Ross S., Assistant Professor, English (1969-1997)
Nix, David E., Professor, Accountancy (1974-1999)
Norman, Frederick J., Professor, Theatre Arts (1969-1994)
Oakes, Donald R., Professor, Music (1966-1996)
Obee, Donald J., Professor, Botany (1946-1977)
Olson, Thomas E., Standard Instructor, Drafting (1975-1990)
Oravez, David L., Chair & Professor, Art (1964-1994)
Ostrander-Dykstra, Gloria, Associate Dean and Associate Professor, University Libraries (1968-2007)
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)
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, Associate Dean, College of Arts & Sciences, Professor, English (1967-1987)
Phillips, John L., Chair & Professor, 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)
Reynolds, R. Larry, Professor, Economics (1979-2006)
Robertson, John B., Associate Professor, Modern Languages (1974-1997)
Rockne, Elaine C., Director & Instructor, Health Information Management (1968-1986)
Rozmajzl, Michon, Associate Dean & Professor, Music (1986-1998)
Russell, Lynn D., Dean & Professor, Engineering (1998-2003)
Rychert, Robert, Professor, Biology (1975-2005)
Sadler, Norma, Professor, Literacy (1973-2006)
Sahni, Charman L., Professor, English (1975-2001)
Sanderson, Richard K., Associate Professor, English (1971-2005)
Scheffer, Martin W., Professor, Sociology (1964-1997)
Schroeder, Gerald H., Professor, Music (1978-2000)
Scudder, Duston R., Professor, Marketing (1964-1987)
Seddon, Carol, Associate Professor, Health Studies (1979-2004)
Selander, Glenn E., Assistant Professor, English (1967-2002)
Shelton, Melvin, Professor, Music (1968-1992)
Sims, Robert C., Professor, History (1970-1999)
Singh, Ramlaykha, Professor, Foundations, Technology, & Secondary Education (1975-1995)
Skillern, William G., Professor, Political Science (1971-2000)
Skoro, Charles Chuck L., Professor, Economics (1983-2003)
Skov, Arny R., Professor, Art (1967-1995)
Sluder, Stanley, Senior Instructor, Semi-conductor Manufacturing Technology (1983-2005)
Smartt, Frank, Assistant Professor, Mathematics (1958-1981)
Smith, Brent, Professor, Art (1980-2006)
Smith, Donald D., Professor, Psychology (1967-1984)
Smith, Lyle H., Director, Intercollegiate Athletics, Professor, Education (1946-1981)
Smith, William S., Professor, Physics (1973-2007)
Snow, Mark, Professor, Psychology (1971-2000)
Spinosa, Claude, Department Chair & Professor, Geosciences (1971-2003)
Stark, Frank W., Professor, Chemistry (1957-2000)
Steger, Harry L., Professor, Psychology (1972-1990)
Stitzel, Thomas E., Professor, Finance (1975-2000)
Stokes, Lee W., Director & Professor, Environmental & Occupational Health (1988-2002)
Straub, Hilary G., Associate Professor, Nursing Department (1985-2003)
Suedmeyer, Joan A., Associate Professor, Elementary Education & Specialized Studies (1986-1995)
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)
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)
Tennyson, Albert, Instructor, Industrial Communications (1966-1977)
Thomason, George L., Associate Professor, Music (1971-1999)
Thorngren, Connie M., Associate Professor, Kinesiology (1971-2001)
Thorsen, Carolyn, Chair & Professor, Educational Technology (1987-2006)
Tipton, Carl W., Associate Professor, Management (1965-1980)
Tollinger, Bonnie, Senior Instructor & Program Head, Dental Assisting (1976-2007)
Vahey, JoAnn, Accreditation Coordinator, Professor, Nursing (1973-1995)
Valverde, Luis J., Professor, Languages (1965-1992)
Vinz, Warren L., Professor, History (1969-2002)
Waag, Charles W., Professor, Geosciences (1981-1998)
Waite, Wenden W., Director & Professor, Special Education (1976-2004)
WaldorLarry, Senior Instructor, Center for Business and Management Technology (1970-2002)
Warberg, William B., Associate Professor, Computer Information Systems & Production Management (1977-1994)
Ward, Frederick Fritz R., Professor, Mathematics (1969-2002)
Warner, Mont M., Professor, Geosciences (1967-1984)
Weatherby, James B., Director of Public Policy & Associate Professor, Public Policy & Administration (1989-2006)
Wertman, Donald L., Senior Instructor, Machine Tool Technology (1979-2000)
Wicklow-Howard, Marcia, Intercollegiate Athletics Faculty Representative & Professor, Biology (1975-2006)
Wilcox, Marguerite, Associate Professor, Nursing (1972-1991)
Wilkinson, Edwin E., Dean, Student Special Services, Professor, Psychology (1958-1992)
Williamson, Marjorie, Associate Professor, College of Applied Technology (1967-1997)
Willis, Lonnie, Professor, English (1970-1998)
Wilson, Monte D., Professor, Geology/Geosciences (1969-1997)
Wilterding, Jim, Professor, Management (1976-1994)
Winans, Ella Mae, Associate Professor, Mathematics (1958-1983)
Wood, Spencer H., Professor, Geosciences (1977-2004)
Wyllie, Gilbert A., 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)

Professional Staff

Benjamin, RuthAnn, Manager User Services, Office of Information Technology/Computing Services (1992-2006)
Burke, Larry D., Director, University Relations (1975-2003)
Cassell, Jacquelyn H., Assistant to the President, Presidents Office (1964-1995)
Criner, Herb, Associate Director/Operations, BSU Intercollegiate Athletics (1985-2006)
Fisher, Anne M., ComMedia & Business Manager, Academic Technologies (1974-2004)
Franden, John S., Executive Assistant, Presidents Office (1985-2004)
Graybeal, David Dick, Manager, Engineering & Technical Services (1974-2003)
Hecker, Elizabeth Betty, Director, Affirmative Action (1984-2003)
Hewitt, Janis, Developer Analyst, Office of Information Technology/Application Development Services (1979-2003)
Irwin, Larry, Director, Office of Research (1973-2005)
Jacoby, Ed, Head Track Coach, Athletics (1975-1996)
Jensen, William, Dean, Continuing Education (1974-1995)
Keith, Ted, Director, Internal Auditing (1966-1997)
Kreps, Harold D., Manager, Library (1989-2004)
Ladwig, Carol, Assistant Director, Athletics (1978-1998)
Maloney, Gail, Director, Risk Management, Insurance and Safety (1972-2001)
Matjeka, Margaret, Financial Aid Counselor, Financial Aid Office (1986-2005)
Nyborg, Lester, Director, Student Health Center (1976-1995)
Plowman, John, Senior Developer/Analyst, Office of Information Technology (1982-2007)
RapRichard P., Associate Vice President for Student Affairs, Student Affairs (1970-2007)
Runner, Herbert W., Director, Institutional Research (1947-1984)
Sawyer, Phyllis L., Director, BSU Wellness/RADAR/PAYADA (1986-1999)
Scheer, Charles Chuck B., Manager, Photographic Services (1975-2003)
Turner, Ron, Director, Budget Office (1967-1997)

VanKleek, Darrell, Controller, Finance & Administration (1969-1995)
Voulelis, Marlene, Director, Administrative Data Processing (1981-1994)
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)
Applegate, Cynthia Diane, Administrative Assistant II, Theatre Arts (1987-2005)
Bobo, Evelyn R., Unit Supervisor, Admissions Office (1968-1985)
Bowers, Sylvia Pat, Senior Secretary, Radiologic Sciences (1976-1996)
Brooks, Leona, Custodian, Physical Plant (1971-1989)
Cardinale, Pauline Liz E., Library Assistant II, Library (1979-2000)
Carnahan, Phyllis, Administrative Assistant, College of Arts & Sciences (1969-1994)
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)
Clever, Charlotte, Technical Records Specialist I, Accounts Payable (1975-2001)
Connell, Maribeth, Facilities Scheduling Coordinator, Student Union (1988-2004)
Cornwell, Lorene, Office Specialist II, Bookstore (1983-2003)
Cowles, Diana, Senior Buyer, Purchasing (1971-2005)
Cozine, Mary, Secretary-Office Coordinator, Counseling Center (1972-1984)
Crane, Marylou, Account Representative, Housing (1970-1992)
Dehlin, Roxann N., Administrative Assistant, Criminal Justice Administration (1986-2003)
Donahue, Bene, Administrative Secretary, President's Office (1970-1992)
Durbin, Elaine, Administrative Assistant, College of Health Sciences (1972-1986)
Echevarria, Luise Lu E., University Travel Examiner, Accounts Payable (1971-1998)
Erickson, Homer, Grounds Maintenance, Physical Plant (1973-1992)
Flacker, Darlene, Administrative Assistant I, Sociology (1979-2001)
Frost, Isis I., Veteran's Clerk, Registrar's Office (1979-1993)
Fuller, Jackie C., Administrative Assistant, Nursing (1977-1999)
Galland, Jean, Head Mechanic, Physical Plant (1972-1993)
Gray, Bonnie, Technical Specialist I, Admissions Office (1998-2005)
GropSherry, Administrative Assistant II, English (1986-2005)
Haskins, Dorothy, Clerical Specialist, Curriculum Resource Center, Library (1972-1988)
Hederer, Golden Sherry, Office Specialist II, Career Center (1986-2003)
Hemingway, Virginia, Graduate Admissions Coordinator, Graduate College (1974-1994)
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)
Hotykay, Art, Inventory Specialist, Accounting (1977-1999)
Huston, Dorothy L., Senior Secretary, Modern Languages (1974-1995)
Ireland, Norma, Senior Buyer, Purchasing (1968-1996)
Leininger, Trudy, Administrative Assistant, Affirmative Action (1976-2001)
Levesque, Claudette, Administrative Secretary, Biology (1976-1997)
Lindley, V. Ann, Technical Records Specialist I, Registrar's Office (1970-1999)
Mahaffey, Arlene, Administrative Secretary, Registrar's Office (1971-2003)
McAdams, Lynn, Transcript Evaluator, Sr., Registrar's Office (1984-2005)
McGhee, Margaret, Administrative Secretary, College of Education (1970-1988)
McKinney, John R., Shipping/Receiving Clerk, Physical Plant (1982-1997)
Moore, Ray, Lab Material Supervisor, Biology (1968-1990)
Moran, Ronald L., Student Loan Manager, Account Maintenance Center (1970-2001)
Myers, Eva Jeanne, Financial Specialist, Larry Selland College of Applied Technology (1977-2004)
Nicholson, Lynn, Purchasing Agent, Purchasing (1983-2003)
O'Bosky, Joseph, Maintenance & Operations Supervisor, Student Residential Life (1980-1997)
Paterson, Marilyn, Secretary Office Coordinator, History (1970-1991)
Peterson, Ella, Payroll Supervisor, Accounting (1964-1983)
Petty, Barbara, Senior Secretary, Physics (1974-1995)
Ploeg, Lee, IT Data Communication Repair Specialist, Office of Information Technology (1993-2007)
Roberson, Ernie, Administrative Assistant, College of Education (1974-1996)
Rountree, Nancy, Management Assistant, College of Engineering (1992-2006)
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's Office (1969-2003)
Sorensen, Pamela, Administrative Assistant I, Accountancy (1977-2007)
Spafford, Carol, Administrative Secretary, Theatre Arts (1974-1998)
Spoor-Stephenson, Clare, Administrative Assistant, Counseling & Testing Center (1974-1996)
Thomas, Dixie, Secretary, Budget Office (1976-1996)
Thomason, Carole, Senior Secretary, Communications (1974-1995)
Turner, Leona, IT Programmer Analyst, Enterprise Application Systems (1977-2007)
Turner, Martha, Transcript Evaluator, Sr., Registrar's Office (1981-1999)
Urresti, Joan, Transcript Evaluator, Sr., Registrar's Office (1977-1993)
Winslow, C. Ann, Management Assistant, University Advancement (1994-2006)

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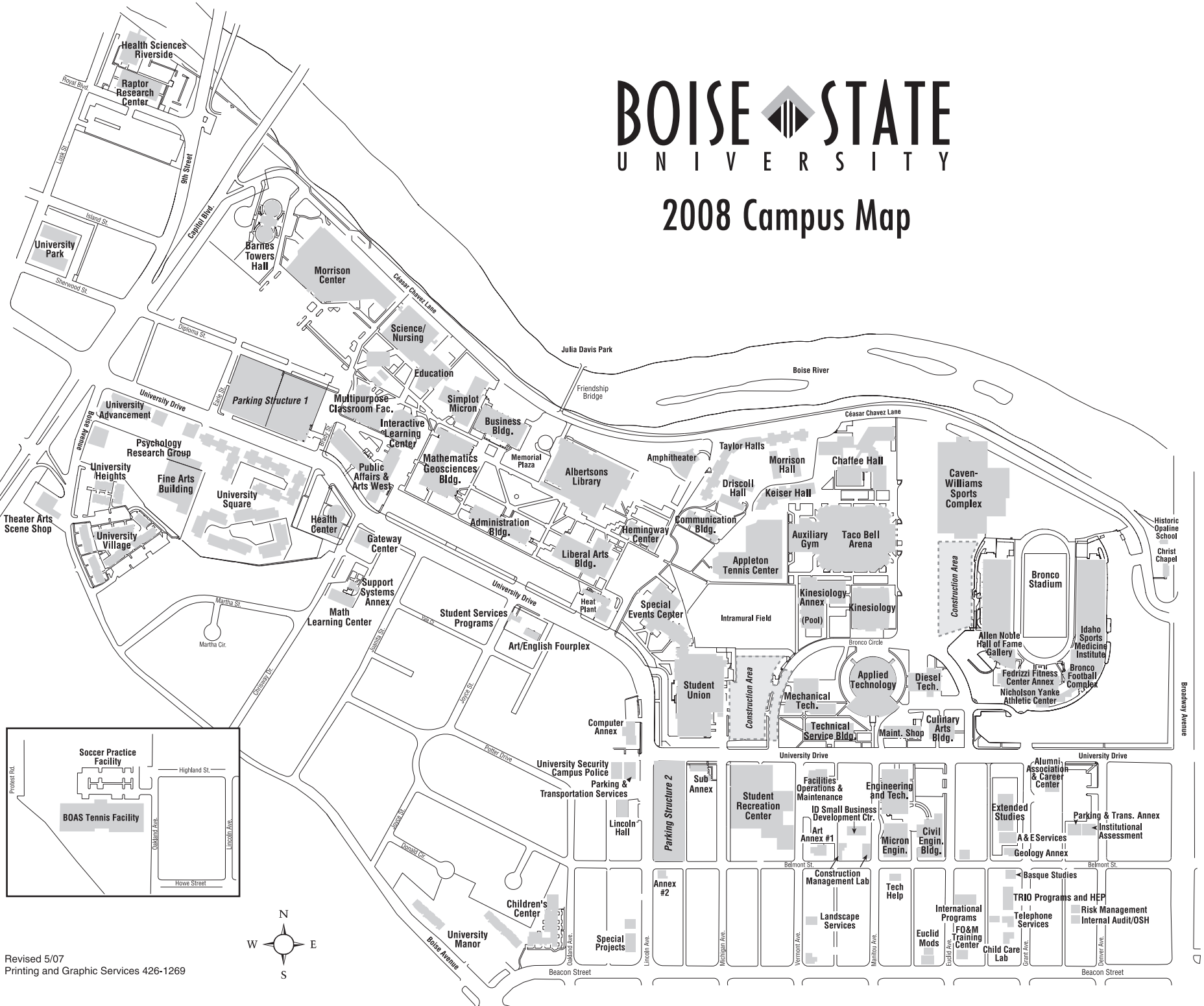
2008 Campus Map



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The desire of knowledge, like the thirst of riches, increases ever with the acquisition of it."

Laurence Stearne 1713-1768

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