# BOISE STATE UNIVERSITY

2001
2002

# CATALOG

UNDERGRADUATE

*Real Education for the Real World*

How can I apply to BSU?

See Chapter 3, pages 16-20

How can I register for classes?

See Chapter 4, pages 21-22

How much do I have to pay?

See Chapter 6, pages 25-26

Where can I get financial aid?

See Chapter 7, pages 27-29

How to get advising help and start choosing classes?

See Chapter 11, pages 37-48

What classes do I need for my major?

See Chapters 13 and 14, pages 56-233

How do I get access to computers, e-mail, the web?

See Chapter 1, page 6

Where is the campus map?

See inside back cover

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## 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 11 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 12 will help you find the information you need about specific programs and course offerings. It lists every program of study offered at BSU and describes which unit administers the program and on what page you will find its specific requirements listed. Chapter 12 also lists all course prefixes and their meanings.

Chapter 13 describes in detail all the undergraduate academic programs and course offerings, while Chapter 14 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:

- BSU *Directory of Classes*
- BSU *Summer Bulletin*
- BSU *Student Handbook*
- BSU *Administrative Handbook*
- *A Student's Guide to Writing at BSU*
- *Credit for Prior Learning at BSU*
- BSU *Graduate Catalog*

Changes made to this catalog since publication will be reflected in the online catalog found at http://www.boisestate.edu/registrar/catalogs.html.

## Table of Contents

Academic Calendar ....2

Chapter 1 — An Introduction to Boise State University ....4

Chapter 2 — General Policies ....14

Chapter 3 — Admissions ....16

Chapter 4 — Registration Policies and Procedures ....21

Chapter 5 — Grades ....23

Chapter 6 — Tuition and Fees ....25

Chapter 7 — Financial Aid ....27

Chapter 8 — Student Housing ....30

Chapter 9 — Student Services ....32

Chapter 10 — Extended Studies ....35

Chapter 11 — Obtaining a Degree at BSU ....37
- Types of Degrees Offered ....37
- General Degree Requirements ....37
- English Composition Requirement ....38
- Mathematics Requirement ....38
- University Core Requirements ....39
- Credit Requirements for Various Degrees ....41
- How to Read a Degree Requirements Table ....44
- Double Majors, Minors, Certificates, etc. ....45
- Credit Limitations ....45
- Transferring Credits ....46
- Prior Learning ....46

Chapter 12 — Summary of Programs and Courses ....49
- Majors, Minors and Certificates Offered ....49
- Course Numbering System ....53
- Course Prefixes ....54

Chapter 13 — Academic Departments and Courses ....56

Chapter 14 — Applied Technology Programs ....205

Faculty ....234

Appendix: Resident/Nonresident Classification Information ....242

Index ....243

Campus Map ....inside back cover

# Boise State University
# Academic Calendar—2001-2002

## Summer Session 2001

**For Registration Information, see the *Summer Directory of Classes***

April 2 - 27 ..... Registration for continuing students for summer/fall 2001.
April 30 - May 25 ..... Registration for new and returning students for summer 2001.
May 4, Friday ..... Recommended last date to mail 2000-2001 "Free Application for Federal Student Aid" (FAFSA) for consideration for financial aid for 2000-2001 (including summer 2001). The FAFSA is processed by a federal agency and must reach the BSU Financial Aid Office by June 1 for the 3 week session or June 15 for all other sessions.
May 17, Thursday ..... Fee-payment deadline for 3-week session. Unpaid accounts will be assessed a $50 penalty. Students who do not plan to attend must cancel by this date.
May 21, Monday ..... Classes begin for 3-week session.
May 24, Thursday ..... Last day for 100% refund for dropping a 3-week session class or withdrawing from the University (minus $25 administrative processing fee and any late fees assessed).
June 1, Friday ..... Last day to submit the BSU summer financial aid application for the 3-week session. Date by which the BSU Financial Aid Office must receive the processed 2000-2001 "Free Application for Federal Student Aid" (FAFSA) to be considered for summer financial aid for the 3-week only session.
June 7, Thursday ..... Fee-payment deadline for first 5-week, 8-week, and 10-week summer sessions. Unpaid accounts will be assessed a $50 penalty. Students who do not plan to attend must cancel/drop by this date.
June 10, Sunday ..... 3-week session ends.
June 11, Monday ..... Classes begin for first 5-week, 8-week, and 10-week sessions.
June 14, Thursday ..... Last day for 100% refund for dropping a first 5-week class or withdrawing from the University (minus $25 administrative processing fee and any late fees assessed).
June 15, Friday ..... Last day to file application for graduation for degrees and certificates for August graduation. Last day to submit "Application for Admission to Candidacy" form to the Graduate Admissions Office for graduate degrees to be awarded in August.
Last day to submit the BSU summer financial aid application. Date by which the BSU Financial Aid Office must receive the processed 2000-2001 "Free Application for Federal Student Aid" (FAFSA) to be considered for summer financial aid for all sessions except the 3-week session (see June 1).
June 18, Monday ..... Last day for 100% refund for dropping an 8 or 10 -week session class or withdrawing from the University (minus $25 administrative processing fee and any late fees assessed).
June 29, Friday ..... Last day for final oral, project, thesis, or dissertation defense for August graduation.
July 4, Wednesday ..... Independence Day Holiday (no classes - University offices closed).
July 12, Thursday ..... Fee-payment deadline for second 5-week summer session. Unpaid accounts will be assessed a $50 penalty. Students who do not plan to attend must cancel/drop by this date.
July 13, Friday ..... Last day to submit final signed copies (2) of master's project, thesis, or dissertation second to Graduate Dean's Office for August graduation
July 15, Sunday ..... First 5-week session ends.
July 16, Monday ..... Second 5-week session begins.
July 19, Thursday ..... Last day for 100% refund for dropping a second 5-week class or withdrawing from the University (minus $25 administrative processing fee and any late fees assessed).
August 5, Sunday ..... Eight-week session ends.
August 19, Sunday ..... Ten-week session and second 5-week session end.

## Fall Semester 2001

**For Registration Information, see the *Fall Directory of Classes***

February 1, Thursday ..... Recommended last date to mail the "Free Application for Federal Student Aid" (FAFSA) to be considered for 2001-2002 need-based scholarships. The FAFSA is mailed to and processed by a federal agency and must be received by the BSU Financial Aid Office by February 22 for consideration of need-based scholarships.
February 1, Thursday ..... 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 2001-2002 year. Last day for the "BSU Supplemental Scholarship Application to be received in the Financial Aid Office to be considered for special 2001-2002 merit and need-based scholarships. Last day for the Brown Scholarship application to be received in the Honors College.
March 1, Thursday ..... Recommended last date to mail the "Free Application for Federal Thursday Student Aid" (FAFSA) and supporting documents for best chance of receiving 2001-2002 grants, work-study, loans and waivers of nonresident tuition. Students applying after this date may not have financial aid available in time for fall fee payment. The FAFSA is processed by a federal agency and must be received by the BSU Financial Aid Office by April 2.
April 2, Monday ..... Date by which all materials must be received in the Financial Aid Office for best chance of receiving 2001-2002 grants, work-study, loans and waivers of nonresident tuition. Students whose application materials are received after this date may not have financial aid available in time for fall fee payment.
June 1, Friday ..... Priority deadline for international student application materials to be received for fall semester consideration.
June 14-16, 18-22, 25-29 ..... Gateway To Your Future Orientation Program - Phase I orientation, advising, and registration for new, readmitted, and transfer students.
June 27, Wednesday ..... Canyon County Gateway To Your Future Orientation Program
July 18-20 & 28 ..... Gateway To Your Future Orientation Program - Phase I orientation, advising, and registration for new, readmitted, and transfer students.
July 18, Wednesday ..... Last day for undergraduate, degree-seeking applicants for fall semester to have all admission materials received by the Admissions Office. Students who complete their admission files after this date will be considered for non degree-seeking (part-time) status only.
July 18, Wednesday ..... Last day for graduate, degree-seeking applicants for fall semester to have all admission materials received by the Graduate Admissions Office. Applications received after this date might not be processed in time to admit students to degree or certification programs.
July 31, Tuesday ..... Canyon County Gateway To Your Future Orientation Program.
August 1-3, 6-7 ..... Gateway To Your Future Orientation Program - Phase I orientation, advising, and registration for new, readmitted, and transfer students.
August 7-10 ..... Gateway To Your Future Orientation Program - Phase I orientation, advising, and registration for non degree-seeking students.
August 20, Monday ..... Faculty orientation/meetings.
August 23, Thursday ..... Fee-payment deadline for registered students (payment must be received by 5:00 p.m.). Unpaid accounts will be assessed a $50 penalty. Students who do not plan to attend must cancel/drop by this date.
August 24, Friday ..... Residence Halls open (noon).
August 27, Monday ..... Classes begin. Academic advising available throughout the semester. Gateway To Your Future Orientation Program - Phase II activities begin and continue throughout the semester.
August 27, Monday ..... First day $10 fee assessed for each Fall 2001 course dropped or withdrawn.
August 31, Friday ..... Weekend University classes begin.
August 31, 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.
August 31, Friday ..... Last day to drop a first 5-week or 8-week block class without a "W" appearing on the transcript.
August 31, Friday ..... Last day to file application for graduation for degrees and certificates for December graduation. Last day to submit "Application for Admission to Candidacy" form to the Graduate Admissions Office for graduate degrees to be awarded in December.
September 3, ..... Labor Day Holiday (no classes - University offices closed).
September 4, Tuesday ..... Instructor permission required to register or add classes.
September 10, Monday ..... Last day to register, to add classes, change from credit to audit or audit to credit, or drop a class without a "W" appearing on the transcript.
September 10, Monday ..... Last day for 100% refund for dropping a class or withdrawing from the University.
September 10, Monday ..... Last day to waive student health insurance.
September 10, Monday ..... Last day to drop first 5-week block classes.
September 17, Monday ..... Last day to drop first 8-week block classes.
September 28, Friday ..... Last day to file application with department for final master's or doctoral written exam.
October 1, Monday ..... Second 5-week block classes begin.
October 5, Friday ..... Last day to drop classes or completely withdraw. Last day to add a challenge course, independent study, internship, directed research or practicum.
October 5, Friday ..... Last day to drop a second 5-week block class without a "W" appearing on the transcript.
October 8, Monday ..... Columbus Day (classes in session).
October 12, Friday ..... Last day to drop second 5-week block classes.
October 13, Saturday ..... Final day for written exam for graduate degrees.
October 22, Monday ..... Second 8-week block classes begin.
October 26, Friday ..... Last day for final oral, project, thesis, or dissertation defense for December graduation.
October 26, Friday ..... Last day to drop a second 8-week block class without a "W" appearing on the transcript.
October 29 - November 21 ..... Registration for continuing students for spring semester 2002.
November 5, Monday ..... Third 5-week block classes begin.

November 9, Friday.....Last day to drop a third 5-week block class without a "W" appearing on the transcript.
November 9, Friday.....Last day to drop second 8-week block classes.
November 12, Monday.....Veterans Day observed (classes in session).
November 16, Friday.....Last day to drop third 5-week block classes.
November 16, Friday.....Last day to submit final signed copies (2) of master's project/thesis to Graduate Dean's Office for December graduation.
November 21-25, Wednesday-Sunday.....Thanksgiving Holiday (no classes - University offices closed November 22-25).
December 09, Sunday.....Weekend University classroom instruction ends.
December 14, Friday.....Classroom instruction ends.
December 17-20, Monday-Thursday.....Final semester examinations (exam schedule listed in Fall Directory of Classes).
December 21, Friday.....Residence Halls close (noon).
December 21, Friday.....Commencement
December 27, Thursday.....Grade reports due to Registrar's Office by Noon.

## Spring Semester 2002

**For Registration Information, see the *Spring Directory of Classes***

October 15, Monday.....Priority deadline for international student application materials to be received for spring semester consideration.
October 29 - November 21.....Registration for continuing students for spring semester.
November 29, Thursday.....Last day for undergraduate, degree-seeking applicants for spring semester to have all admission materials received by the Admissions Office. Last day for graduate, degree-seeking applicants for spring semester to have all admission materials received by the Graduate Admissions Office.
December 11 -January 11.....Gateway To Your Future Orientation Program - Phase I orientation, advising, and registration for new, readmitted, and transfer students (specific dates assigned to students)..
January 7, Monday.....Faculty meetings.
January 10, Thursday.....Fee-payment deadline for registered students (payment must be received by 5:00 p.m.). Unpaid accounts will be assessed a $50 penalty. Students who do not plan to attend must cancel/drop by this date.
January 12, Saturday.....Residence Halls open (noon).
January 14, Monday.....Classes begin. Academic advising available throughout the semester. Gateway To Your Future Orientation Program - Phase II activities begin and continue throughout the semester.
January 14, Monday.....First day $10 fee assessed for each Spring 2002 course dropped or withdrawn.
January 18, Friday.....Last day to file application for graduation for degrees and certificates for May graduation. Last day to submit "Application for Admission to Candidacy" form to the Graduate Admissions Office for graduate degrees to be awarded in May.
January 18, Friday.....Weekend University classes begin.
January 18, 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.
January 18, Friday.....Last day to drop a first 5-week or 8-week block class without a "W" appearing on the transcript.
January 21, Monday.....Dr. Martin Luther King, Jr./Idaho Human Rights Day Holiday (no classes – University offices closed).
January 22, Tuesday.....Instructor permission required to register or add classes.
January 28, Monday.....Last day to register, to add classes, change from credit to audit or audit to credit, or drop a class without a "W" appearing on the transcript.
January 28, Monday.....Last day for 100% refund for dropping a class or withdrawing from the University.
January 28, Monday.....Last day to waive student health insurance.
January 28, Monday.....Last day to drop first 5-week block classes.
February 1, 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 2002-2003 year. Last day for the "BSU Supplemental Scholarship Application to be received in the Financial Aid Office to be considered for special 2002-2003 merit and need-based scholarships. Last day for the Brown Scholarship application to be received in the Honors College.
February 4, Monday.....Last day to drop first 8-week block classes.
February 18, Monday.....President's Day Holiday (no classes - University offices closed).
February 19, Tuesday.....Second 5-week block classes begin.
February 22, Friday.....Last day to drop classes. Last day for complete withdrawal. Last day to add a challenge course, independent study, internship, directed research or practicum.
February 22, Friday.....Last day to file application with department for final master's or doctoral written exam.
February 25, Monday.....Last day to drop a second 5-week block class without a "W" appearing on the transcript.
March 1, Thursday.....Recommended last date to mail the "Free Application for Federal Student Aid" (FAFSA) and supporting documents for best chance of receiving 2002-2003 grants, work-study, loans and waivers of nonresident tuition. Students applying after this date may not have financial aid available in time for fall semester fee payment. The FAFSA is processed by a federal agency and must be received by the BSU Financial Aid office by April 1.
March 4, Monday.....Last day to drop second 5-week block classes.
March 11, Monday.....Second 8-week block classes begin.
March 15, Friday.....Last day to drop a second 8-week block class without a "W" appearing on the transcript.
March 23, Saturday.....Last day for written exam for graduate degrees.
March 25-31, Monday - Sunday.....Spring Vacation.
April 1, Monday.....Date by which all materials must be received in the Financial Aid Office for best chance of receiving 2002-2003 grants, work-study, loans and waivers of non-resident tuition. Students whose application materials are received after this date may not have financial aid available in time for fall fee payment.
April 1, Monday.....Third 5-week block classes begin.
April 1-26.....Registration for continuing students for summer/fall 2002.
April 5, Friday.....Last day to drop second 8-week block classes
April 5, Friday.....Last day for final oral, project, thesis, or dissertation defense for May graduation.
April 5, Friday.....Last day to drop a third 5-week block class without a "W" appearing on the transcript.
April 12, Friday.....Last day to submit final signed copies (2) of master's project/thesis to Graduate Dean's Office for May graduation.
April 12, Friday.....Last day to drop third 5-week block classes.
May 5, Sunday.....Weekend University classroom instruction ends.
May 10, Friday.....Classroom instruction ends.
May 13-16, Monday - Thursday.....Final semester examinations (exam schedule listed in Spring Directory of Classes).
May 17, Friday.....Residence Halls close (Noon).
May 18, Saturday.....Commencement.
May 20, Monday.....Grade reports due to Registrar's Office by Noon.

## Summer Session 2002

**For Registration Information, see *Summer Directory of Classes***

May 16, Thursday.....Fee-payment deadline for 3-week session. Unpaid accounts will be assessed a $50 penalty. Students who do not plan to attend must cancel/drop by this date.
May 20, Monday.....Classes begin for 3-week session.
June 6, Thursday.....Fee-payment deadline for first 5-week, 8-week, and 10-week summer sessions. Unpaid accounts will be assessed a $50 penalty. Students who do not plan to attend must cancel by this date.
June 9, Sunday.....3-week session ends.
June 10, Monday.....Classes begin for first 5-week, 8-week, and 10-week sessions.
June 14, Friday.....Last day to file application for graduation for degrees and certificates for August Graduation. Last day to submit "Admission to Candidacy" form to the Graduate Admissions Office for graduate degrees to be awarded in August.
June 28, Friday.....Last day for final oral, project, thesis, or dissertation defense for August graduation.
July 4, Wednesday.....Independence Day Holiday (no classes-University Offices closed).
July 11, Thursday.....Fee-payment deadline for second 5-week sessions. Unpaid accounts will be assessed a $50 penalty. Students who do not plan to attend must cancel by this date.
July 12, Friday.....Last day to submit final signed copies (2) of master's project/thesis to Graduate Dean's Office for August graduation
July 14, Sunday.....First 5-week session ends
July 16, Monday.....Classes begin for second 5-week session.
August 4, Sunday.....Eight-week session ends.
August 18, Sunday.....Ten-week session ends.
August 20, Tuesday.....Grade reports due to Registrar's Office by Noon.

# 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 168,000 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 BSU 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 BSU, 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, SummerFest, and a variety of other theatrical and musical productions. Touring artists frequently perform in the Morrison Center and The Pavilion, both on the BSU campus. In addition, a variety of national sporting events are held at The Pavilion.

## 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 BSU, 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, BSU reflects the character and spirit of Boise—Idaho's center of business and government. In fact, to ensure that BSU'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 BSU 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 12 for a complete list of degrees, majors, minors, certificates, and transfer programs offered at BSU.)

**Table 1.1 — Organization of BSU**

| College | Departments |
|---|---|
| College of Arts and Sciences | Art; Biology; Chemistry; English; Geosciences; Mathematics; Modern Languages and Literatures; Music; Philosophy; Physics; Theatre Arts |
| College of Business and Economics | Accountancy; Computer Information Systems and Production Management; Economics; Management; Marketing and Finance |
| College of Education | Counselor Education; Elementary Education and Specialized Studies; Foundations, Technology and Secondary Education; Kinesiology |
| College of Engineering | Civil Engineering; Computer Science; Construction Management; Electrical and Computer Engineering; Instructional and Performance Technology; Mechanical Engineering |
| College of Health Sciences | Health Studies; Nursing; Radiologic Science; Respiratory Therapy |
| College of Social Sciences and Public Affairs | Anthropology; Communication; Criminal Justice Administration; History; Military Science; Political Science; Psychology; Public Policy and Administration; Social Work; Sociology |
| Larry G. Selland College of Applied Technology | Business and Management Technology; Culinary Arts; Construction Technology; Health and Human Services Technology; Horticulture Technology; Information Technology; Manufacturing 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 4-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 67-year history, BSU has operated under the leadership of five presidents:

- Bishop Middleton Barnwell (1932-34)
- Eugene B. Chaffee (1934-67)
- John B. Barnes (1967-77)
- John H. Keiser (1978-1991)
- Charles P. Ruch (1993-present)

## Accreditation

The university is a fully accredited member of the Northwest Association of Schools and Colleges and holds permanent membership on the College Entrance Examination Board and in the College Scholarship Service Assembly.

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

- Accreditation Board for Engineering and Technology
- The International Association for Management Education
- American Chemical Society
- American Council for Construction Education
- American Culinary Foundation Educational Institute
- 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
- Computing Science Accreditation Commission
- Council on Social Work Education
- Idaho State Board of Nursing
- International Association of Counseling Services
- Joint Review Committee on Education in Radiologic Technology
- 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 Technician 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

## Students and Faculty

Each semester, BSU enrolls more than 16,000 students in its academic and applied technology programs. Students come to BSU 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 BSU 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 BSU.

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 BSU 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, BSU 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

BSU'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, student housing, and the registrar. **The Counseling and Testing Center** is located in the **Education Building**, while the **Student Health Center** and the **BSU Career Center** are located across University Drive from the main campus.

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** and the **Public Affairs/Art West Building**. In addition, a new **Multi-Purpose Classroom Facility** opened the 1997-1998 year with state-of-the-art classroom and computer laboratory facilities.

Other notable features of the campus include a newly remodeled and expanded **Albertsons Library** as well as the **Centennial Amphitheatre**—an outdoor venue for lectures, concerts, and plays—and the **Morrison Center for the Performing Arts**, which houses the music department, the theatre arts department, a 2,000-seat performance hall, a 200-seat recital hall, and a 200-seat theater.

In the **Simplot/Micron Instructional Technology Center**, BSU 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.

BSU 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 Outdoor Rental Center, the BSU 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 140 recognized student organizations.

The **Intramural/Recreation Office** and one of **BSU's Children's Centers** are located in the **The Pavilion**, Idaho's largest multi-purpose arena. When not filled with fans of Bronco basketball, gymnastics, or volleyball, the Pavilion 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 and its collections support the curricular and research efforts of the university. The Library's holdings exceed 2 million items, including:

- 469,000 monograph volumes
- 72,000 bound periodicals
- 4,932 current periodicals, newspapers, and other serials
- 129,800 maps
- 92,700 U. S. government publications
- 1,363,000 microform pieces

**http://library.boisestate.edu** is the URL for the Albertsons Library website through which the user can gain access to Catalyst and a host of other resources, including full text articles from 2,500 journals.

You may use **Catalyst**, the Library's computerized catalog, to quickly identify material that the Library owns. You can log-on to Catalyst from outside the Library, as well as from within.

The **Curriculum Resource Center** houses print and nonprint materials for elementary and secondary education, a collection of juvenile and young-adult books, a circulating collection of music CD's, and nonprint materials for college-level instruction. The Library's **Government Documents** collection is a depository for selected United States publications. Canadian documents to support the Canadian Studies program and Idaho State documents are included in the general collection. The Library's **Map Collection** provides detailed coverage of Idaho as well as maps that cover a wide array of subjects.

The **Reference Area** contains a large collection of periodical indexes, in both paper and electronic formats, and an extensive collection of handbooks, encyclopedias, dictionaries, and other types of reference materials. Web delivered electronic periodical indexes with access to full text databases greatly expands the print periodical holdings.The Reference Area also provides both basic and advanced bibliographic search materials and instruction in the use of them. In this area, too, you may obtain assistance in using the entire Library.

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.

## 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 BSU offices and computer labs are connected to the campus fiber-optic network. This allows access to the campus network or the Internet.

BSU provides e-mail accounts for 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 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 physical 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, women's volleyball, men's and women's basketball, men's and women's track and field and cross country, women's soccer, men's and women's golf, and men's and women's tennis. The university competes in the PAC-10 in wrestling and independently in women's gymnastics. 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 in the *BSU Student Handbook* and is also available by calling the Athletic Department at 208 426-4214.

Student ticket policies to athletic events are listed in the *BSU Student Handbook*.

The *Equity in Athletics Disclosure Report* for Boise State University is available at the Athletic Department, the reserve book room in the library, and the ASBSU Office in the Student Union Building. The report provides participation rates, financial support, and other information on men's and women's intercollegiate athletic programs.

## Recreation

Boise State has entered a new era in campus recreation. Under the Division of Student Affairs a new Student Recreation Facility is scheduled to open it's doors in the fall of 2001. This facility will provide students, faculty,and staff the most modern and convenient recreation and fitness facilities in the region. Whether you want personalized training, competitive sports, club activities, or just to relax, this new state-of-the-art facility will include basketball courts, racquetball courts, a climbing wall, weight rooms, jogging track and other fitness areas. The recreation programs provide opportunities that enhance the quality of campus life.

The informal program or open recreation is designed to provide drop-in space for students during their free time. Students can lift weights, organize a basketball or volleyball game, jog, just socialize, or choose from a number of other activities. Telephone 208 426-1131 for more information.

The intramural program offers league and tournament play in a variety of activities including basketball, soccer, volleyball, flag football, softball, and tennis.

Our Outdoor Center is the campus resource for adventure education seminars and rental equipment. Learn rock-climbing, cross-country skiing, wilderness first aid, kayaking or visit the resource library on outdoor locations to plan your next trip.

Please check our website http://boisestate.edu/recreation.

# Colleges

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

## College of Arts and Sciences

**Dean: Phillip M. Eastman, Ph.D.**
**Telephone 208 426-1414**
**Fax 208 426-3006**

**Associate Dean: Kent Neely, 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, chemistry, earth science, geology, geophysics, 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)
- education, mathematics (master of science)
- English (master of arts)
- geology (master of science)
- geophysics (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 a program of study leading to a Doctor of Philosophy degree in Geophysics.

   For more information, see the *BSU Graduate Catalog*.
4. To offer undergraduate programs of study leading to minors in art, biology, chemistry, English, environmental studies, 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* (BSU's national award-winning student literary magazine), *Ahsahta Press* (poetry by western poets), 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 biology department is affiliated with the World Center for Birds of Prey, a research and breeding center for raptors, located near Boise. In addition, Boise State University is the host institution for the Raptor Research and Technical Assistance Center.

The geosciences department is affiliated with Center for Geophysical Investigation of the Shallow Subsurface (CGISS), a research center focused 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 Geographic Information Systems (GIS) Center. 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.

# College of Business and Economics

**Dean: William Lathen, Ph.D.**
**Telephone 208 426-1125**
**Fax 208 426-1135**
**http://cobe.boisestate.edu**
**e-mail: cobe-info@boisestate.edu**

**Associate Dean: Diane Schooley, Ph.D.**
**Telephone 208 426-3110**
**Fax 208 426-3637**

**Director of College of Business and Economics Student Services Center: Janet M. Centanni, M.Ed.**

The College of Business and Economics at Boise State University is composed of five academic departments, Global Business Consortium and International Business Program, and three centers:

- Department of Accountancy
- Department of Computer Information Systems and Production Management
- Department of Economics
- Department of Management
- Department of Marketing and Finance
- Global Business Consortium and International Business Program (Mark Buchanan, Director)
- Idaho Business and Economic Development Center (Jim Hogge, Director)
- Idaho Council on Economic Education (Jack Rucker, Director)
- Center for Management Development (Ron Melchiorre, Director)

## Mission

The mission of the College of Business and Economics is to advance the success of individuals and organizations primarily in Idaho by providing responsive, accessible, and high-quality educational services in business and economics.

## Accreditation

Undergraduate and graduate programs in the College of Business and Economics are accredited by the AACSB – The International Association for Management Education. This is a distinction held by approximately 30% of the 1,200 institutions in the U. S. that grant business degrees.

The College of Business and Economics also received confirmation of the high quality of its baccalaureate accountancy program when the AACSB – The International Association for Management Education granted the program accreditation. Nationally, about 14% of accounting programs 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, sophomore, and new transfer students should contact the College of Business and Economics Student Services Center, in the Business Building, Room 117, 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 1. Interested students should contact Student Financial Aid, Administration Building, Room 117, 208 426-1664.

## Student Organizations

The way to get 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:

- Beta Alpha Psi (national accounting)
- Alpha Kappa Psi (national business fraternity)
- Association of Information Technology Professionals (computer information systems and production and operations management)
- Association of Purchasing and Inventory Control (production and operations management)
- Omicron Delta Epsilon (economics)
- Financial Management Association (finance)
- Human Resource Association (management)
- Entrepreneur Club (management)
- Phi Sigma Epsilon (national marketing fraternity)
- Ad Club (marketing)
- International Business Organization
- Students in Free Enterprise (Interdisciplinary)

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 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. In addition, students may do internships overseas or spend a semester or year abroad. Students' internship assignments are jointly supervised by company management and BSU College of Business and Economics faculty members. Academic credit is awarded for internships and financial compensation is usually available. Nearly 70% 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.

**NOTE:** College of Business and Economics baccalaureate candidates are required to complete the following upper-division courses with grades of C or higher before taking GENBUS 450 Business Policies, a required core course:

- FINAN 303 Principles of Finance
- MKTG 301 Principles of Marketing
- MGMT 301 Management and Organizational Theory
- OPERMGT 345 Principles of Production Management

GENBUS 450 is not required for the B.A. in economics.

# College of Education

**Dean: Joyce Lynn Garrett, Ph.D.**
**Telephone 208 426-1134**
**Fax 208 426-4365**
**http://www.boisestate.edu**
**e-mail: jgarrett@boisestate.edu**

**Associate Dean: Glenn R. Potter, Ed.D.**
**Telephone 208 426-3399**
**e-mail: gpotter@boisestate.edu**

The mission of the College of Education at Boise State University is to prepare professionals who integrate teaching and learning practices to enhance knowledge and skills; physical, psychological, and social well-being; and respect diversity, collegiality, and democratic principles. As part of Idaho's metropolitan university, serving both urban and rural populations, the College accomplishes its mission through teaching, service, research, and other scholarly activities that advance and translate knowledge into improved practice at the local, regional, national, and international levels.

To accomplish our mission, the College of Education offers students a blend of well-designed campus-based coursework and field experiences that are housed in four academic departments and three centers. The College offers seven undergraduate degree programs and works collaboratively with the College of Arts and Sciences and the College of Social Sciences and Public Affairs to help prepare teachers in 17 additional undergraduate degree programs. The College of Education also offers the Master of Arts degree or the Master of Science degree in seven programs and an innovative program in Curriculum and Instruction which leads to the Doctorate in Education.

The departments:

- Counselor Education Department
- Elementary Education and Specialized Studies Department
- Foundations, Technology and Secondary Education Department
- Kinesiology Department

The centers:

- Center for Economic Education
- Center for Educational/Multicultural Opportunities
- Center for School Improvement
- Center for Physical Activity and Sport

## Accreditation

The undergraduate and graduate teacher education programs are accredited by the National Council for the Accreditation of Teacher Education (NCATE) and the Professional Standards Commission of the Idaho State Board of Education. The athletic training education program is fully accredited by the Commission on Accreditation of Applied Health Education Programs (CAAHEP), while the School Counseling program is accredited by the Council for Accreditation of Counselor Education and Related Education Program (CACREP).

## Teacher Certification

The College of Education is responsible for preparing students for state certification as teachers. The dean of the College is the official BSU representative accountable for recommending certification for those students who successfully complete a teacher education program at BSU.

## Teacher Education Advisory Council

The Teacher Education Advisory Council coordinates teacher education across the university, promotes collaboration across programs and departments, and recommends policy for all professional preparation programs to the dean of the College of Education. The council is appointed by the Provost and includes professional educators and representatives from the College of Arts and Sciences, the College of Social Sciences and Public Affairs, and the College of Education. The deans nominate the representatives from their colleges, and the dean of the College of Education nominates the professional educators. The council is directed by the Associate Dean.

## Office of Academic Advising

**Coordinator: David Smith**
**Education Building, Room 206**
**Telephone 208 426-4217**
**dsmith@boisestate.edu**

An advising center for teacher education students is located on the second floor of the Education Building. In addition, each department is responsible for providing individualized advising for students majoring in their respective areas.

## Office of Field Experiences and Program Evaluation

**Elementary Education Director: Evelyn Cairns**
**Education Building, Room 315**
**Telephone 208 426-2184**

**Secondary Education Director: Steve Christensen, Ph.D.**
**Education Building, Room 202**
**Telephone 208 426-1528**

The Offices of Field Experience and Program Evaluation serves the departments involved in teacher education by coordinating internships,

practica, observation experiences, and student teaching with teacher education programs and the public schools. The offices also administer follow-up studies of graduates of teacher education programs.

## Center for Physical Activity and Sport

**Director: Linda Petlichkoff, Ph.D.**
**Kinesiology Building, Room 101A**
**Telephone 208 426-1231**

The Center for Physical Activity and Sport, housed in the Kinesiology Department, focuses upon research and public service activities related to the physical and psychological well being of "at risk" children and adolescents, prevention and care of youth sport injuries, and the functional capacity of older adults utilizing a multidisciplinary approach that includes the disciplines of kinesiology, health sciences, and teacher education.

## Center for Multicultural/Educational Opportunities

**Director: Scott Willison**
**Education Building, Room 406**
**Telephone 208 426-3292**

The Center for Educational/Multicultural Opportunities coordinates external grants and contracts that relate to educational opportunities and student support services for minority, low-income, and first-generation college students. The center provides leadership and support for recruiting students and faculty from under-represented groups into teacher education. Finally, the center works with faculty and others in developing funding proposals.

## Center for School Improvement

**Director: William Parrett, Ph. D.**
**Education Building, Room 404**
**Telephone 208 426-1077**

The Center for School Improvement is co-sponsored by the College of Education and the College of Social Sciences and Public Affairs. The major focus of the center is to provide technical assistance to communities to improve their schools through research, development, training and service. Annually, the Center offers "The Institute for Effective Teaching and Learning," a four week summer institute for educators and the "Summer Academy," an academic day care camp for students in grades two through six.

The National Board Certification project, funded by the J. A. & Kathryn Albertson Foundation, is coordinated through National Board for Professional Teaching Standards (NBPTS). The program requires extensive portfolio development and a rigorous written examination to achieve National Board certification, a highly prized goal in the teaching profession.

## Center for Economic Education

**Director: William Parrett, Ph.D.**
**Education Building, Room 404**
**Telephone 208 426-1077**

The Center for Economic Education is co-sponsored by the College of Education and the College of Business and Economics and assists public schools in becoming more effective in teaching economics.

## Student Organizations

The following student organizations are of interest to many of the College of Education majors:

- Bilingual Education Student Organization
- Council on Exceptional Children Student Organization
- Physical Education Majors Club
- Student Athletic Trainers Association
- Teacher Education Association

# College of Engineering

**Dean: Lynn Russell, Ph.D., P.E.**
**Telephone 208 426-1153**
**Fax 208 426-4466**
**http://coen.boisestate.edu/**
**e-mail: djensen@boisestate.edu**

The College of Engineering at Boise State University is made up of six departments: Civil Engineering, Computer Science, Electrical and Computer Engineering, Mechanical Engineering, Construction Management, and Instructional & Performance Technology. The program in construction management offers the bachelor of science degree, while the program in instructional & performance technology offers a master of science degree. The engineering and computer science programs offer both bachelor's and master's degrees.

## Accreditation

The undergraduate programs in civil, electrical, and mechanical engineering at Boise State University are accredited by the Engineering Accreditation Commission of the Accreditation Board for Engineering and Technology, 111 Market Place, Suite 1050, Baltimore, MD 21202-4012; telephone 410 323-7700.

The program in computer science is accredited by the Computer Science Accreditation Commission (CSAC) of the Computing Sciences Accreditation Board (CSAB).

The program in construction management is accredited by the American Council for Construction Education, 1300 Hudson Lane, Suite 3, Monroe, LA 71201-6054; telephone 318 323-2816.

## 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 essential 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 BSU 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 for equipment to support both introductory and advanced studies in microelectronics, integrated design, device mechanics, robotics, 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:

- ASCE Student Chapter (Civil Engineering)
- Institute of Electrical and Electronics Engineers Student Chapter
- ASME Student Chapter (Mechanical Engineering)
- Society of Women Engineers (SWE)
- Society of Hispanic Professional Engineers (SHPE)
- Associated General Contractors (AGC) Student Chapter Construction Management

## Scholarships/Internships

Students are encouraged to apply for scholarships. Over $65,000 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. Students are also strongly encouraged to participate in internships 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 Albertson College of Idaho (ACI) and with Northwest Nazarene University (NNU) for dual degree programs in engineering. In these agreements students may attend either ACI 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 (either ACI or NNU) and a bachelor's degree in engineering from Boise State. Students interested in these programs should contact admissions officers at either ACI, NNU, or Boise State.

The College of Engineering also 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. Students interested in participating in such a exchange program should contact their advisor at Boise State.

# College of Health Sciences

**Dean: James A. Taylor, Ed.D.**
**Health Sciences Riverside Building, Room 207**
**Telephone 208 426-4116**
**Fax 208 426-3469**
**http://www.boisestate.edu/health/**
**e-mail: jataylor@boisestate.edu**

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. The college is also dedicated to providing the general student body and Boise State University service area with educational programs that increase awareness of healthy lifestyles. Program goals are achieved through collaboration with an integration of the area's resources, including medical centers, public health agencies, and health care professionals. Innovative program curricula, excellence in teaching, and faculty scholarly activities are also essential for achieving these goals.

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

- environmental health (baccalaureate degree)
- health information technology (2-year associate degree)
- health information management (baccalaureate degree)
- health science studies (baccalaureate degree)
- nursing (2-year associate degree and 4-year baccalaureate degree and an 11-month Practical Nursing certificate)
- radiologic sciences (3-year associate and baccalaureate degree)
- respiratory therapy (3-year associate and baccalaureate degree)
- health science (master's degree)

The College of Health Sciences also assist 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, substance abuse, environmental health, health promotion, health services supervisory leadership, and general health research.

## 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 has 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 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
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
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 therapy, radiologic sciences, health information technology, and environmental health have all received accreditation from their national professional accreditating 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 therapy, 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. Given the competition for these programs, students need to perform very well in courses required for admission into the program.

## Center for Health Policy

The College of Health Sciences hosts a university-wide Center of Health Policy that collaborates with Idaho State University, Lewis Clark State College, and the University of Idaho 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.

## 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 BSU 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 BSU provides high-quality programs for our students and appropriate professional education programs for health agencies in the BSU service area. For instance, serving as college-wide advisor is the University/Community Health Sciences Incorporation, a coalition between Boise State University and the area health community that seeks to further health professional education and research in the BSU service area. The board of directors consist 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.

# College of Social Sciences and Public Affairs

**Dean:**
**Associate Dean: Suzanne McCorkle, Ph.D.**
**Telephone 208 426-3776**
**Fax 208 426-4318**
**http://sspa.boisestate.edu**

## About the College of Social Sciences and Public Affairs (SSPA)

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.
- 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 2,500 students majoring in social sciences participate in a variety of activities sponsored by the College, including an Archaeology Field School, BSU's Speech and Debate Team, University Television Productions, an undergraduate research initiative, and the Public History Program. 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 22% of BSU'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.

## Degree Programs

As the lead institution within Idaho for the social sciences, the College is composed of the following academic departments:

- Anthropology
- Communication
- Criminal justice administration
- History
- Military science
- Political science
- Psychology
- Public Policy and Administration
- Social Work
- Sociology

The College offers the following programs of study:

- major in Multi-Ethnic Studies (Department of Sociology)
- major in Social Sciences (Department of Sociology)
- Associate of Arts in Social Science (Department of Sociology)
- Associate of Science in Criminal Justice Administration
- minor in Latin (Department of History)
- minor in Canadian Studies (various academic departments and courses)
- minor in Native American Studies (Department of Anthropology)
- minor in Mexican-American Studies (Department of Sociology)
- minor in Women's Studies (various academic departments and courses)
- Dispute Resolution certificate (various academic programs and courses)
- Legal Assistant certificate (various academic programs and courses)

## 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. Director: Dr. David Patton. Telephone: 208 426-1476. http://ppa.boisestate.edu/CPPA.htm.

## 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, housed in the Department of Public Policy and Administration, was created in 1995 and first received funding in 1996. It primarily serves the communities in the Pacific Northwest and intermountain states of Oregon, Washington, Idaho, and Alaska. However, the Center also provides training, education and assistance programs nationwide. The mission of the Environmental Finance Center is to help communities and states with the financial issues related to environmental protection. The Environmental Finance Center is also assisting the states in improving institutional capacity, in formulating and implementing strategies for enchancing 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. http://sspa.boisestate.edu/efc/.

## 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 primary emphasis area in social sciences and 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.

# Larry G. Selland College of Applied Technology

**Dean: Larry Barnhardt, Ed.D.**
**Associate Dean: Stan Brings, Ed.M.**
**Telephone 208 426-2238**
**Fax 208 426-4135**
**http://selland.boisestate.edu**

The Larry G. Selland College of Applied Technology provides a focused response to the technological education and training needs of the region. For Idaho to sustain a strong and viable economy, the educational system must provide the tools and structure necessary to prepare skilled technicians, craft workers, and other professionals requiring up to two years of training. The 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 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 scientific and technical knowledge to be productive and competitive. In addition to a diverse array of education and training programs, the College provides technical assistance to industry and other programs intended to aid in the region's economic growth and workforce development.

The Selland College provides full-time applied technology course offerings through eight Centers of Distinction: Business and Management Technology, Culinary Arts, Construction Technology, Health and Human Services, Horticulture Technology, Information Technology, Manufacturing Technology, and Transportation Technology. In addition to Bachelor of Applied Science degree offerings in various technical fields, the College provides numerous undergraduate Associate of Applied Science degree programs. A variety of certificate programs are available in a wide range of subject areas where a student may earn a certificate of completion, postsecondary technical certificate, technical certificate, or advanced technical certificate. The degree and certificate program descriptions and course offerings for these instructional divisions are detailed in Chapter 14.

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.

The Tech Prep program is part of a state and national effort 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 an overlap in the curriculum, high school students may begin earning college credits towards certificate and/or degree programs — 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 citizens 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, Apprenticeships in the building trades, and Professional Development Skills. Some of this training is customized to meet the specific needs of a specific employer. The Center for Workforce Training is also a member of the Work Force Training Network of Idaho. Through this association, they provide opportunities for training over a statewide area as it works with other Technical Colleges throughout the state.

The Selland College has a Student Support Division 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 Division is committed to customer service, program quality, accountability, and service integration.

The Basic and Applied Academic Division provides developmental and academic skills instruction, tutoring services, and technical applied courses.

The Learning Center for Adult Basic Education program provides provides quality education for out of school youth and 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 as a second language classes, computer literacy, basic skill instruction for the workplace and GED preparation.

The Adult Basic Education program provides adults with sufficient basic education to enable them to benefit from job training and/or retraining and obtain productive employment. In doing so they might more fully enjoy the benefits and responsibilities of citizenship. Qualified teachers and staff are available to assist adult students in meeting their educational goals. The registration procedure includes a program orientation, diagnostic assessment, student advising, and the development of an individual education plan.

The College has extended access to its educational and training programs through a Distance Learning Network. Under a consortium arrangement with five school districts in southwest Idaho, the network utilizes state-of-the-art, two-way, interactive, compressed audio/video technology to deliver postsecondary course work to high school students and college students at the Canyon County Campus, and extend use of the system to governmental agencies, businesses, and industrial users for educational teleconferencing, and training purposes. This seamless, technology-rich, customer driven communication network provides expanded educational resources to place-bound students in the rural areas of southwest Idaho in line with the Institution's distributed campus approach to meeting the region's educational and training needs.

# Graduate College

**Dean: Kenneth M. Hollenbaugh, Ph.D.**
**Math/Geosciences Building, Room 140**
**Telephone 208 426-3647**
**Fax 208 426-4061**
**http://www.boisestate.edu/gradcoll**
**e-mail: gradcoll@boisestate.edu**

**Graduate Admissions Manager: Brian Newkirk**
**Math/Geosciences Building, Room 141**
**Telephone 208 426-3903**

Graduate programs at Boise State University were first offered in 1971. Today, the Graduate College provides master's and doctoral degree programs that offer a variety of opportunities 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 4,000. Students enroll to prepare for academic or other professional careers, to improve the skills used in their careers, or to gain personal intellectual enrichment and professional development. Your decision to continue your education at the graduate level means that you will join other graduate students and faculty in the adventure of discovery— discovery of new understanding and information about your discipline, 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 your efforts to achieve your academic goal.

## Graduate Credit Options for Seniors

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

**Graduate Courses for Undergraduate Credit** BSU seniors may take up to two 500-level courses for upper-division credit applied 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** If you are a senior, you may enroll in graduate courses during your senior year. However, you must first obtain approval from the dean of the Graduate College and the chair of the department offering the courses. Credits earned in this fashion are applied toward a graduate degree at BSU, not to your undergraduate degree. M.B.A. courses are excluded from this policy.

To take graduate courses under either of these policies, you must first complete the *Permit for Seniors to Take Graduate Courses*, available in the Registrar's Office, Administration Building, Room 102.

## *BSU Graduate Catalog*

A catalog describing graduate programs at BSU is available from Graduate Admissions, Math/Geosciences Building, Room 141, 208 426-3903.

## Questions About BSU?

- 1-208-426-1011
- 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 *BSU Student Handbook* and the *BSU Administrative Handbook*. The *BSU Student Handbook* may be obtained from the WEB at http://www2.boisestate.edu/sss/studhb.htm, while the *BSU Administrative Handbook* is available for inspection at various administrative offices (including the Registrar's Office, Administration Building, Room 102, and the Admissions Office, Administration Building, Room 105).

## Your Rights and Responsibilities

BSU 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, BSU 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 *BSU Student Handbook* to acquaint you with your rights and responsibilities as a student. In the *BSU Student Handbook*, for instance, you will find the Student Bill of Rights and the Code of Conduct, along with information on:

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

Each student is expected to be familiar with the information in the *BSU Student Handbook*. You can obtain a copy from the WEB at http://www2.boisestate.edu/sss/studhb.htm.

## 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. 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, as defined in *A Student's Guide to Writing at BSU*

**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 guilty 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:

- *A Student's Guide to Writing at BSU*
- *BSU Administrative Handbook*
- *BSU Student Handbook*

## 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. 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 and all materials that document that transcript. And, of course, faculty members 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, BSU will provide them in a timely and efficient manner.

The following sections provide more detail about your official record at BSU, about your rights and responsibilities regarding that record, and about BSU policies and procedures governing the information that your record contains. Other publications discussing these matters include the *BSU Administrative Handbook* and the *BSU Student Handbook*.

### Transcript Records

The Registrar's Office makes every effort to ensure that transcript records are up to date, accurate, and true. You have the right to appeal any information on your transcript that inaccurately reflects your academic history. However, information on a transcript is changed only in extraordinary or extenuating circumstances.

If there is an error or omission on your transcript, send a detailed description of the error or omission, along with copies of the relevant documents, to the Registrar's Office, Administration Building, Room 102, 208 426-4249.

### Confidentiality and Privacy

Following the guidelines established by the Family Rights and Privacy Act of 1974, the university strives to protect your personal privacy and the confidentiality of your official student record. This section generally describes BSU's policy on confidentiality and privacy, as defined by the *BSU Administrative Handbook*.

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

- your local address
- your e-mail address
- your local telephone number
- your major field of study
- the dates you attended BSU
- 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 BSU and the date on which you received it

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, you should notify the Registrar's Office that you want the information treated as confidential. You can do so by completing a privacy request form, available at the Registrar's Office, Administration Building, Room 110.

In discharging their official duties, BSU 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—BSU faculty and staff must first secure your written permission to do so.

## Verification of Your Enrollment Status

Every day, BSU fields phone calls or letters from people wanting to verify an individual's enrollment status. Requests for verification often come from such businesses as employment agencies, insurance companies, and lending agencies. For example, a lending agency may request verification of your enrollment status to determine if you are enrolled at least half-time and therefore are eligible for continued deferment of a student loan.

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, BSU calculates your enrollment status according to Table 2.1.

**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 BSU policies or procedures call for the Registrar's Office to send written notification to a student, that obligation is fulfilled when the Registrar's Office mails the notification to the student's last address on record. Therefore, you must immediately inform the Registrar's Office, Administration Building, Room 110, of any change in your address. Past students may do so in person, by telephone, or by sending in a change-of-address card from the post office. Currently enrolled students must update address information via BroncoWeb **(http://www.boisestate.edu and select BroncoWeb)**.

## Name Changes

Currently enrolled students should promptly report a change of name to the Registrar's Office, Administration Building, Room 110. You may do so by completing a *Student Information Update* form and return the form to the Registrar's Office, Administration Building, Room 110. If you are also an employee of the University you must report your name change to the Department of Human Resources, Administration Building, Room 218. 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.

# 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. |

# 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 University Appeals Committee. Appeals for current semester complete withdrawals should be directed to the Dean of Student Services. For more information about appeals and grievances, see the *BSU Student Handbook* and the *BSU Administrative Handbook*. Contact the Dean of Student Services, Administration Building, Room 114, 208 426-1583.

## Questions About These Policies?

If you have questions about these policies, contact the Registrar's Office, Administration Building, Room 102, 208 426-4249 or the Office of Student Services, Administration Building, Room 114, 208 426-1583.

# 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. The New Student Information Center furnishes application forms and information about BSU 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 BSU. Also included are instructions for applying for admission (Table 3.1).

**NOTE:** If you are planning to pursue graduate studies, you apply for admission through Graduate Admissions. For more information, see the *BSU 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:

- Fall Semester 2001: July 18, 2001
- Spring Semester 2002: November 29, 2001
- 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 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 University has implemented the following admission standards.

**Standards for Freshmen** For all **high school graduates under 21**, high school grades and ACT or SAT results will be evaluated according to BSU's admission index (Table 3.2). This index assigns more weight to your high school grades than your test scores. For instance, if your GPA (grade-point average) is 3.0 on a 4-point scale, you are a likely candidate for admission. A GPA of 2.5 requires an ACT composite score of at least 17 (or SAT verbal + math score of 810*). A GPA of 2.0 requires an ACT score of 25 (or SAT combined score of 1130*).

Once you are determined to be admissible according to the index, your high school course work will be examined. If you completed all courses in the Idaho College Admission Core (Table 3.3), with at least a 2.0 average, you will be granted *general admission* status.

If you have met the requirements of the BSU admissions index but have not completed the Idaho College Admission Core, you will be assigned *provisional admission* status.

**If you graduated from high school in 1989 or later and are 21 or older**, you will be admitted with *general admission* status if you completed all courses in the Idaho College Admission Core (Table 3.3) with at least a 2.0 average. If you do not meet all requirements of the Idaho College Admission Core, you will be considered for *provisional admission* if your cumulative high school grade point average is 2.0.

**If you completed the GED in 1989 or later and you are 21 or older**, you will be admitted with *provisional admission* status if your standard score average on the GED is at least 50. **If you completed the GED in 1989 or later and you are under 21**, you will be admitted with *provisional admission* status if your standard score average is at least 50 and you have an ACT composite score of at least 17 (or SAT combined score of 810*).

**If before 1989 you graduated from high school or received the GED** (with a standard score average of at least 50) and you have never attended college before, you will be admitted with *general admission* status.

**All references to SAT scores are for tests taken after April 1, 1995. If you took the test before April 1, 1995, refer to the BSU Admission Index (Table 3.2) for relevant score information. If you do not meet the admission standards for general or provisional Admission, you are encouraged to apply to BSU 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, you may petition for special consideration.*

**Table 3.3**
**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 | 6 | Anatomy, Biology, Chemistry, Earth Science, Geology Physiology, Physical Science Physics, Zoology | Selected Science 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.

**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 grade-point average of at least 2.0 (based on transferable credits from all colleges and universities). If you have a grade-point average of less than 2.0, you will be considered for admission with *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 BSU classes for at least one semester (fall or spring).

## Table 3.1 — How to Apply for Admission to BSU

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 16).

### New Freshmen in Academic Programs

- *Application for Undergraduate Admission* with one-time, nonrefundable *$20 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

- *Application for Undergraduate Admission* with one-time, nonrefundable *$20 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 BSU 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

If you are a BSU student who has not attended for one semester or more (not including summer), you must reapply for admission. Submit the following:

- *Application for Undergraduate Admission*.

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

- *One-time, nonrefundable $20 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:** BSU 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.

### Nondegree-seeking Applicants

- *Application for Undergraduate Admission* or *Application for Nondegree-seeking Enrollment*.
- *One-time, nonrefundable $20 application fee*.

### Applicants in Larry G. Selland College of Applied Technology Programs

If you are applying for a post-secondary vocational certificate, technical certificate, advanced technical certificate, or associate of applied science program, follow the steps below. Direct all inquiries to the College's Student Services offices, (Boise) 208 426-1431 or (Nampa) 208 426-4701:

- *Make arrangements to take the Basic Skills Assessment (BSA). Obtain current assessment schedule, pay applicable fees and take the BSA at the College's Assessment Centers (Boise: 208 426-3681 or Nampa: 208 426-4715).*
- *Schedule a personal interview with a Student Services counselor/advisor at either office to review your BSA scores and for assistance toward successful admission into the College.*

Submit to Selland College of Applied Technology Student Services (Boise or Nampa) the following:

- *Application for Undergraduate Admission with your one-time $20 application fee.*
- *Official high school and college transcripts, all college transcripts or GED certificate, if applicable*.
- *$50 nonrefundable one-time enrollment processing fee. (Financial support may be available; contact the College's Student Services offices.)*

### Applicants in Graduate Programs

If you with to pursue graduate studies, apply through the BSU Graduate Admissions Office. For more information, see the *BSU Graduate Catalog*.

### Applicants from Other Countries

Refer to "Admission of International Students" in this chapter.

**To be official, transcripts must be sent by the issuing institution directly to the BSU Undergraduate Admissions Office.*
***Test results are not required if you are 21 or older, as of the first day of class of the semester for which you are applying.*

## Table 3.2 — Boise State University Admission Index

High School GPA Range

| SAT Before 4/1/95 | SAT Since 4/1/95 | ACT | From 3.14 To 4.00 | 3.09 3.13 | 3.03 3.08 | 2.97 3.02 | 2.91 2.96 | 2.86 2.90 | 2.80 2.85 | 2.74 2.79 | 2.69 2.73 | 2.63 2.68 | 2.57 2.62 | 2.51 2.56 | 2.46 2.50 | 2.40 2.45 | 2.34 2.39 | 2.29 2.33 | 2.23 2.28 | 2.17 2.22 | 2.11 2.16 | 2.06 2.10 | 2.00 2.05 | 1.94 1.99 | 1.89 1.93 | 1.83 1.88 | 1.77 1.82 | 1.71 1.76 | 1.66 1.70 | 1.60 1.65 | 1.54 1.59 | 1.49 1.53 | 1.43 1.48 | 1.37 1.42 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1560 | 1580 | 36 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1510 | 1530 | 35 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1450 | 1500 | 34 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1400 | 1450 | 33 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1350 | 1400 | 32 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1300 | 1360 | 31 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1260 | 1320 | 30 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1210 | 1280 | 29 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1170 | 1240 | 28 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1130 | 1200 | 27 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1090 | 1170 | 26 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1050 | 1130 | 25 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1010 | 1090 | 24 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 970 | 1050 | 23 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 920 | 1010 | 22 | | | Probable Candidate for Admission | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 880 | 970 | 21 | | | | | | | | | | | | | | | | | | | | | Unlikely Candidate for Admission | | | | | | | | | | | |
| 840 | 930 | 20 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 790 | 890 | 19 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 740 | 850 | 18 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 700 | 810 | 17 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 650 | 760 | 16 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 600 | 710 | 15 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 560 | 660 | 14 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 520 | 620 | 13 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 480 | 570 | 12 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 440 | 520 | 11 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 420 | 470 | 10 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 400 | 430 | 9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 400 | 400 | 8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 400 | 400 | 7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 400 | 400 | 6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 400 | 400 | 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

**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 BSU with 14 or more earned credits, you will be considered for admission based on your academic record at BSU and at any colleges or universities you have attended since attending BSU. To be admitted with *general admission* status, you must have left BSU 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 BSU. If you were on academic probation when you left BSU, you will be considered for admission with *probation*. However, if you were dismissed from BSU during the most recent semester, you will be required to remain out of BSU 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 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, 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 can be applied toward a degree at a later date. Please be aware that students taking 7 or fewer credits per semester pay part-time fees; those taking 8 or more credits pay full BSU 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 nondegree-seeking status.

### Standards for Larry G. Selland College of Applied Technology Students

If you intend to pursue the bachelor of applied science degree, the BSU academic admission standards will be used to evaluate your application. If you intend to pursue a post-secondary vocational certificate, technical certificate, advanced technical certificate or associate of applied science degree program in the Selland College of Applied Technology or the Practical Nursing program in the Department of Nursing at BSU, you will be assigned one of three types of admission status. 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 Regular 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** meet the minimum Basic Skills Assessment (BSA) scores established for the program of choice.*

**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** meet the minimum Basic Skills Assessment (BSA) scores established for the program of choice.*

**Applied Technology Provisional Admission** status may be granted to students who do not meet the requirements for regular admission. Students must verify graduation from an accredited high school or earned a 45 or better standard score average on the GED; **AND** meet the minimum Basic Skills Assessment (BSA) scores established for the program of choice.*

**Applied Technology Conditional Admission** status may be granted to students who are 16 or older and have not graduated from high school or earned a GED but meet the minimum Basic Skills Assessment (BSA) scores established for the program of choice* **AND** demonstrate 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.)

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

*The Basic and Applied Academics Division offers classes and tutorials to assist prospective students in meeting the minimum Basic Skills Assessment (BSA) levels.

**Table 3.4**
**Idaho Vocational-Technical 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) |

## Dual Enrollment for High School Students

**Academic Classes** If you would like to attend high school and college courses simultaneously, you may be eligible to "dual enroll" at Boise State University. Options include taking BSU 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 BSU campus, complete the Boise State *Dual Enrollment Application*. You will need to obtain the signature of your parent and high school counselor or principal. You must be at least 16 years of age or have completed 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 208 426-1820.

**Applied Technology Classes** To participate in high school and 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. To apply, submit a completed Boise State *Dual Enrollment Application*. You will need to obtain the signature of your parents and high school counselor or principal. 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). Your secondary school grades must convert to a minimum U.S. 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 or 173 on the computer-based TOEFL.

**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 Test of English as a Foreign Language. Your transcripts or marksheets must convert to a minimum U.S. grade point average 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 Educational Credential Evaluators, Inc. (ECE), a private, nonprofit organization that prepares 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 BSU. 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 or 173 on the computer-based TOEFL. 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 scores noted above, all international students must submit the following:

- International Student Application for Admission
- nonrefundable processing fee of $30
- 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 2001: June 1, 2001
Spring Semester 2002: October 15, 2001

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 107, 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 BSU'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, 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 BSU.")

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

- You met BSU's requirements for high school grade-point average and ACT/SAT scores, but did not complete the Idaho College Admission Core (see Table 3.3).
- 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 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 mainly to students who are admitted with unofficial transcripts around the application deadline and allows students to attend class, but it does not permit students to receive financial aid. 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 BSU. If you fail to do so, you will be dismissed from the university and will be ineligible to attend BSU 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 BSU with less than a 2.0 grade-point average for your previous college-level study.
- You attended BSU and left the university while on academic probation. Even if you have successfully completed courses at another institution since leaving BSU, you will reenter BSU on probationary status.

**Denied Status** You do not meet the standards for admission with regular, provisional, or probationary status and are denied admission 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 can be used 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.

## When You Are Admitted

Once admitted, you will receive notice of your admission status as well as receive an appointment for an orientation/advising/registration session. On the date of this appointment, you will receive important information about the University, meet with an advisor, take any necessary placement exams, select classes, and register for those classes.

## 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 BSU beyond these retention periods, you may be asked to furnish new application materials, such as a college transcript.

## Appeals

You may file an appeal for special consideration if unusual or extenuating circumstances prevent you from meeting the admission standards, from meeting the application deadline, or from meeting the requirements of provisional status. To file an appeal, visit the Director of Admissions Office, Administration Building, Room 107 or call 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.

# Chapter 4—Registration Policies and Procedures



This chapter discusses the process of registration, during which students meet with advisors to select courses, then register to attend those courses and (if necessary) drop or add courses after the semester has begun. 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 *BSU Directory 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.

## Priority Registration

If you are a continuing, degree-seeking student, you may register during priority registration, which is held in April (for the upcoming summer sessions and fall semester) and held again in November (for the upcoming spring semester). For exact dates, consult the current academic calendar or the *BSU Directory of Classes*. During priority registration, students register by appointment, via BroncoWeb **(http://www.boisestate.edu and select BroncoWeb)**, according to a schedule established by the Registrar's Office. If you are a new degree-seeking student and are admitted to the university before the deadline for admission, you will be notified, by mail, of your registration appointment. Continuing nondegree-seeking students may register at the end of the priority registration period for continuing degree-seeking students. New nondegree seeking students may register at the end of priority registration for new degree-seeking students.

## Open Registration

Open registration begins after the fee-payment deadline for preregistered students and runs through the tenth day of the semester. (See the *BSU Directory of Classes* for specific dates.)

## Registration Cancellation

Once you register for classes, you will remain registered and will be held responsible for the fees and grades assessed for these classes unless you take action to cancel your registration. If you decide not to attend classes for which you have registered you must cancel your registration by dropping all of your classes via BroncoWeb **(http://www.boisestate.edu and select BroncoWeb)**. If you do not cancel (drop all classes) your registration or pay your fees by the cancellation deadline/fee-payment deadline, you will remain registered, you will be charged course fees, plus you will be assessed a $50.00 late fee.

If you wish to adjust your schedule by adding or dropping a class, see instructions concerning the drop-add process. If you wish to withdraw from classes after the first day of instruction, see the instructions for Complete Withdrawal.

## Credit/Audit Status

During open registration, if space in the class is available, you may register for a course under audit status; that is, you may register for the course with the understanding that you will receive neither credit nor a grade. 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 tenth day of the semester. Access **(http://www.boisestate.edu and select BroncoWeb)** to complete the process. If you fail to meet the audit requirements established by the instructor, the instructor may give you a final grade of '"UAU" (Unsatisfactory Audit).

## Adding Classes and Dropping Classes

For a short time at the beginning of each semester, enrolled students may add classes to their schedule or drop classes from their schedule. You may drop and add classes via BroncoWeb **(http://www.boisestate.edu and select BroncoWeb)**. For more information about dropping or adding classes, see the *BSU Directory of Classes* or call the Web Registration Help Center at 208 426-2932.

Before the semester begins, you may add classes to your schedule, via BroncoWeb **(http://www.boisestate.edu and select BroncoWeb),** without first obtaining the instructor's permission, if there is space available in the class. You may continue to add classes after the first day of classroom instruction, up until the 10th day of the semester (see the academic calendar in the *BSU Directory of Classes* for the exact deadline). 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. 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 challenge, you may do so through the end of the sixth week of the semester.)

You may drop classes from your schedule through the sixth week of the semester. (See the academic calendar in the *BSU Directory of Classes* for the exact deadline.) If you drop a class before the tenth day of the semester, the class will not appear on your transcript. However, if you drop a class after the tenth 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 the *BSU Directory of Classes* for the exact deadline.)

BSU limits the number of withdrawals (W's) a student may receive while enrolled at BSU. 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, B, C, D, P, or F in any succeeding course.

**Exceptions** Withdrawals from co-requisite 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 Registrar's Office will place a hold on your record and reinstate you in the class.

## Faculty-Initiated Withdrawals

An instructor can withdraw a student from a course if any of the following conditions are present:

- The student fails to attend one of the first two meetings of a class that meets more than once each week.
- The student fails to attend the first meeting of a class that meets once each week.
- The student has 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 special drop form to the Registrar's Office. Students withdrawn from a course for failing to attend these specified class meetings may re-enroll in the course with the instructor's permission through the 10th day of the semester. (See the *BSU Directory of Classes* for the exact deadline.) 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.

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

## Complete Withdrawal from BSU

Students who wish to leave the University in **GOOD STANDING** (drop all courses) must drop all their classes via BroncoWeb **(http://www.boisestate.edu and select BroncoWeb)**. If the complete withdrawal is made after the fee payment deadline and the student has not paid their fees, the student is still responsible for the entire amount of fees incurred plus a $25.00 administrative processing fee. Applied Technology students must clear with the College of Applied Technology Student Services office, Technical building, room 111. Extended Studies students can initiate a complete withdrawal via BroncoWeb or in Extended Studies Building, 1015 Grant.

Students who are physically unable to drop their 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 student requesting the withdrawal **within two weeks of the request and by the end of the sixth week of the semester** before the student's records can be officially closed for that semester. See refund information in this directory.

Students who do not cancel their registration, completely withdraw prior to the end of the sixth week of the semester, or who fail to complete the course requirements by deadlines discussed previously 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 Dean of Student Services. 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

Students who withdraw from the University need to be aware of a federal law impacting financial aid eligibility. Complete withdrawals will result in a financial obligation by the student to return the unearned portion of any federal aid disbursed. A student will have earned aid if he or she withdraws prior to completing 60 percent of the semester. The student 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 the student. If you are considering withdrawing from Boise State, we strongly recommend that you first discuss the financial consequences of this action with the Account Maintenance Office, Administration Building, room 209, 208 426-2134.

## Administrative Withdrawal from BSU

An administrative withdrawal is the process by which BSU formally withdraws a student from the university, usually without the student's consent or cooperation. Students 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.) will be recorded with a grade of 'W' and will appear on the student's 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 will not appear on the student's transcript.

## Questions About These Policies?

If you have questions about these policies, contact the Registrar's Office, Administration Building, Room 102, 208 426-4249.

### 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 enroll in the class and a competent faculty member is available to teach the course.

# Chapter 5—Grades

This chapter defines the grading system used at BSU. 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.

## BSU'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 |
| B | Superior work | 3 | Yes |
| C | Average work | 2 | Yes |
| D | Below-average work | 1 | 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 |
| NR | No Report on Record Instructor has not yet turned in a grade | 0 (until changed to a letter grade) | 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 GPA
- BSU 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 credits 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*, BSU 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, B, C, D, or F) in those transferred courses. During any semester you can be enrolled in **one** of three possible careers — undergraduate, graduate, or applied technology. If you have repeated a course prior to fall semester 1995, only the most recent grade is used in calculating your overall cumulative GPA. For courses repeated during or after fall semester 1995, both grades are used in the GPA calculation.

In calculating *semester GPA*, the formula uses only the quality points earned and GPA units attempted that semester. For *BSU GPA*, the formula uses only quality points earned and GPA units attempted at BSU in your current career.

All GPA calculations exclude credits for:

- pass/fail courses in which you received a final grade of P
- 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)(UAU)
- courses in which you have received the grade of I, for *incomplete*, or NR, for *no record* (until the I or NR 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 write and sign 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 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; in fact, you are prohibited from enrolling in the course for as long as you have an incomplete. 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 semester of full-time enrollment. To be included in the Dean's List, you must meet both of the following criteria:

- You must complete 12 or more 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.

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 BSU 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. 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 for at least five years, or at least eight years must have elapsed since you received the grades you wish to have excluded.
- Before applying for grade exclusion, you must complete 12 consecutive credits at BSU 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 BSU.

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.

# 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 (including transfer credits). Table 5.2, below, shows the minimum BSU GPA you must maintain for a corresponding number of credits earned. The GPA used to determine probation and dismissal status is the BSU GPA, which includes only credits earned at BSU. Total cumulative credits earned include transfer and BSU credits.

**Table 5.2**
**Minimum BSU GPA Necessary to Remain in Good Academic Standing**

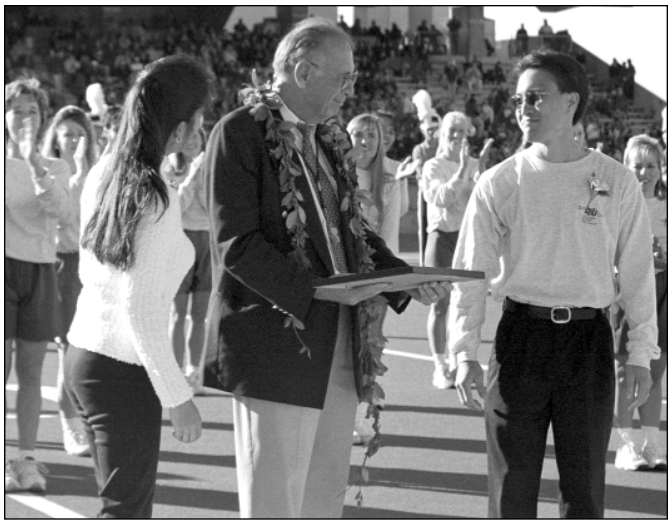
| Cumulative Credits Earned (Transfer and BSU) | Minimum BSU Cumulative GPA (BSU GPA only. Transfer GPA not included.) |
|---|---|
| 0 to 6 | 1.00 |
| 7 to 32 | 1.60 |
| 33 to 64 | 1.80 |
| 65 or more | 2.00 |

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

- removes you from probation (if your cumulative BSU GPA is at or above the minimum specified in Table 5.2)
- continues your probation (if your cumulative BSU 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 BSU GPA is below the minimum specified in Table 5.2 and your semester GPA is below 2.0)

**NOTE:** If you transfer credits to BSU 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 BSU."

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 *BSU Student Handbook*.

If you are dismissed from the university, you are barred from enrolling for one semester (fall or spring) after the 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. This form is available from the Registrar's Office, Administration Building, Room 102.

# 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 "Faculty-Initiated Withdrawal" in Chapter 4).

# 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 (Please see 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 BSU Directory 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 102, 208 426-4249.

# Chapter 6—Tuition and Fees

In general, the costs of attending BSU arise from tuition, institutional fees, and special fees (such as fees for private music lessons or laboratory classes). Your actual costs depend on how many classes you take, the type of classes you take, and your status as a resident or nonresident student. For instance, Idaho state law stipulates that Idaho residents cannot be charged tuition (the direct cost of instruction); for Idaho residents, then, the principal cost of attending BSU arises from institutional fees. 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. You may pay with cash, check, VISA, MasterCard, or Discover.

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.

Depending on the timing of your registration, you may or may not receive a monthly billing statement prior to the fee payment deadline. **It is your responsibility to meet all fee payment deadlines regardless of whether a mailed bill was received.** Please insure your mailing address is current at all times. Please contact the Payment and Disbursement Office, Administration Building, Room 211 or call 208 426-1212 for specific fee information.

## 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, however, you must be registered for two or more billable credits, and you must have no delinquent or past-due accounts with the university.

To enroll in the program, a completed **IPAY** contract and 50% of the unpaid balance of fees must be received in the Payment and Disbursement Center by the payment 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.

**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, BSU 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.

## How BSU Calculates Your Tuition and Fees

When you apply for admission to BSU, you pay a one-time, nonrefundable fee ($20) for processing your application. To calculate your other tuition and fees, BSU 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 March 17, 1999 (8 credits or more)**

| Tuition and Fees | Resident | Nonresident |
|---|---|---|
| Tuition | $0 | $3000.00 |
| Institutional Fees$1423.25 | $1423.25 | |
| Total (for up to 19 credits) | $1423.25 | $4423.25 |
| Overload Fee* | per credit hour | per credit hour |

*An overload fee is imposed if you register for more than 19 credits. Each credit over 19 costs the per-credit-hour cost in Table 6.3, below.

In determining whether you have reached the milestone of 8 credits per semester, BSU 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.

**NOTE:** Fees are calculated based on the career of the student. Graduate students will be charged the graduate rate based on enrollment status, including both graduate and undergraduate courses. Undergraduate students will not be charged a graduate fee.

**Table 6.2**
**Partial Fees, Per Semester, as of March 17, 1999 (less than 8 credits)**

| Type of Credit | Fall or Spring Semester | Summer Session |
|---|---|---|
| Undergraduate | $124.70 per credit hour | $121.25 per credit hour |
| Graduate | $156.70 per credit hour | $153.25 per credit hour |

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 |
|---|---|
| $125 | $250 |

These music fees may be waived, however, if you are a music major enrolled for 12 or more credits. To be eligible to receive the waiver, 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 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.

## Idaho Residency Requirements

When you are first admitted to BSU, 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 the "Appendix" for complete resident/nonresident classification information. For further information, please contact the Registrar's Office, Administration Building, Room 102, 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 BSU's decision to classify me as a nonresident student?

**A:** Yes. To do so, obtain an appeal affidavit from the Registrar's Office, Administration Building, Room 102. Complete the form and submit it according to the instructions provided by the 15th day of class during the semester in which they are enrolled.

## Refund Policy

In general, if you completely withdraw from BSU **on or before the tenth day of the semester**, 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 tenth day of classroom instruction, you receive no refund. No refunds for private music lessons can be granted after the first five days of classroom instruction. Overload fees are not refunded.

**NOTE:** In determining whether you have met the deadline and are therefore eligible for a refund, BSU considers only the date on which you applied for a refund—not the date on which you stopped attending class. Please note, also, that registering late has no effect on refund deadlines; BSU cannot extend the deadlines to take into account a late registration. In summary, you must completely withdraw from the university **and** apply for your refund no later than the tenth day of classroom instruction.

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 BSU. If you owe money to the university, that money will be deducted from the refund before it is issued. Similarly, BSU 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, BSU 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 209, 208 426-2134.

## Student Health Insurance Program

All full-fee paying students (those enrolled in 8 or more credit hours) are covered under the university's Student Health Insurance Program, unless they complete a Student Health Insurance Declination Form and submit prior to the tenth day of the semester to the Payment and Disbursement Center, Administration Building, Room 211. The premium is included in the fee schedule for each semester except summer. Coverage begins on the first day of classroom instruction, or if the fees are paid late, on the day the fees are paid. 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 the first day of classroom instruction and ends on the first day of the spring semester. Spring semester benefits continue until the first day of the fall semester.

**Part-time students** enrolled for 3 or more credit hours may enroll in the Student Health Insurance Program by contacting the Student Health Insurance Representative at the Student Health Center, 2103 University Drive, Room 114, 208 426-2158 during the first 14 days of each semester. No billings will be sent for the insurance premium.

**Dependent coverage** is available to dependents of the above students. In order to purchase dependent coverage, the student must also be insured under the Student Health Insurance Program. Students may enroll their dependents by completing the Enrollment form which is attached to the brochure, and paying the premium to the Student Health Insurance Representative in the Student Health Center, 2103 University Drive, Room 114, 208 426-2158. Dependent coverage is on a voluntary basis and billings will not be sent.

**Refund Policy** Any student with existing health insurance coverage (other than Medicaid) may be exempt from participation in the Student Health Insurance Program by completing a Student Health Insurance Declination Form and submitting the form to the Payment and Disbursement Center, Administration Building, Room 211, prior to the tenth day of the semester. Students charged for the Student Health Insurance and who have not waived the insurance prior to the tenth day of the semester, will be considered insured and will be held responsible for the related health insurance fee. For consultation on the program, refunds, and claim procedures, contact the Insurance Representative at the Student Health Center or call 208 426-2158.

For consultation on the program, refunds, and claim procedures, contact the Insurance Representative, Insurance Office, Student Health Center, 2103 University Drive, Room 114, 208 426-2158.

**NOTE:** All enrolled students may obtain medical assistance or services at the Student Health Center located at 2103 University Drive, telephone 208 426-1459. The Student Health Center has no connection to the insurance program covering BSU students.

### ? Questions About Tuition and Fees?

If you have questions about tuition and fees, contact the Account Maintenance Center, Administration Building, Room 209, 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 209, 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 102, 208 426-4249.

# Chapter 7—Financial Aid

Through the Financial Aid Office, Boise State University administers a comprehensive financial aid program to assist students who would otherwise be unable to attend the University. 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 scholarships, loans, grants, and part-time employment are available to fill the gap between students' financial resources and their educational expenses.

The information contained in this publication reflects the current procedures and rules affecting the delivery of financial aid. The University reserves the right to change, at any time, schedules, rules and regulations. Appropriate notice of such changes is given, whenever possible, before they become effective. More information about financial aid is available over the Web at http://stuaff.boisestate.edu/financialaid/. General information is also available in the 2001/2002 Student Guide, from the U.S. Department of Education (available at the Financial Aid Office).

The following sections describe the eligibility requirements for receiving federal aid, the types of financial aid available at Boise State University, procedures for distributing that financial 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.

- Complete the *Free Application for Federal Student Aid (FAFSA)* and receive an official *Expected Family Contribution (EFC)*(see below). Most federal aid requires demonstrated financial need, which is determined by completing the FAFSA.
- Be admitted to Boise State University as a student seeking a degree, or be matriculated in a certificate program approved for financial aid.
- Enroll for the minimum number of credit hours required by the aid program.
- Maintain Satisfactory Academic Progress standards (see detail on following pages).
- Have a high school diploma, or GED.
- Be a U.S. Citizen, permanent resident, or eligible noncitizen. Federal financial aid is not available to international students attending Boise State on a student visa. (International students who encounter financial difficulties are encouraged to seek assistance from the International Programs Office.)
- 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 $3750, though these figures are subject to change each year. If a Pell Grant is insufficient to pay your educational expenses, you may be eligible to receive other types of aid, including a **Federal Supplemental Educational Opportunity Grant** or a **Leveraging Education Assistance Partnership Program (LEAP) Grant**. These grants are awarded to undergraduate students who show exceptional financial need. Typically, all three types of grants do not have to be repaid. Other types of financial aid - including loans, scholarships, and nonresident tuition - waivers are described below.

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 for Perkins loans of various amounts.

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

| Loan Amount | Number of Payments | Monthly Payment | Total Interest | Total Amount |
|---|---|---|---|---|
| $ 1,000.00 | 36 | $ 30.00* | $ 78.85 | $ 1,078.85 |
| $ 2,000.00 | 79 | $ 30.00* | $ 347.90 | $ 2,347.90 |
| $ 4,000.00 | 120 | $ 42.42* | $1,090.40 | $ 5,090.40 |
| $ 6,000.00 | 120 | $ 63.63* | $1,635.60 | $ 7,635.60 |
| $ 8,000.00 | 120 | $ 85.48* | $2,182.00 | $10,182.00 |
| $10,000.00 | 120 | $106.06* | $2,727.20 | $12,727.20 |

*Final payment will be slightly less.

**William D. Ford Federal Direct Loans** are need-based, long-term loans available to undergraduate and graduate students who are enrolled at least half-time. If you receive a Direct Loan, you must complete a debt-management training session available on the Web before BSU releases your funds. 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. The interest rate is variable but will not exceed 8.25%. There are numerous repayment options for the Direct Loan. More information will be made available at the time you borrow.

**Table 7.2**
**Estimated Repayment Schedules For Federal Direct Loans (based on 8% interest rate)**

| Loan Amount | Number of Payments | Monthly Payment | Total Interest | Total Amount |
|---|---|---|---|---|
| $ 2,500.00 | 60 | $ 50.70* | $ 541.46 | $ 3,041.46 |
| $ 5,000.00 | 60 | $101.39* | $ 1,082.92 | $ 6,082.92 |
| $10,000.00 | 120 | $121.33* | $ 4,559.31 | $14,559.31 |
| $12,500.00 | 120 | $151.67* | $ 5,699.14 | $18,199.14 |
| $25,000.00 | 120 | $303.33* | $ 11,398.28 | $36,398.28 |

*Final payment will be slightly less.

**Emergency Short-Term Loans** are available to students with a minimum grade-point average of 2.00. However, 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.

**The Federal Work-Study Program** provides employment opportunities for selected undergraduate and graduate students with demonstrated financial need. The **Atwell J. Perry College Work-Study Program** also provides employment opportunities for students; however, only Idaho residents are eligible to participate in the program. The **BSU Work-Study Program** has limited funds available for undergraduate and graduate students who are ineligible for federal or state work-study programs, but who wish to work to pay a portion of their educational expenses.

## 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. A complete listing of scholarships is available via the web at http://stuaff.boisestate.edu/financialaid/Scholarship.htm. A few typical scholarships are described below.

The university scholarship deadline is February 1. All continuing and new students who have completed the admission application by the deadline and who have at least a 3.0 gpa will be considered.

- **Brown Honors Scholarships** offer awards ranging from $1,000 to a package of full fees plus room and board worth up to $7,500. Many of these scholarships are renewable for four consecutive years. Contact the Honors Program for more information.

- **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.
- **President's Scholarships** and **Dean's Scholarships** are available to a limited number of first-year students enrolling directly from high school; 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 admission application.
- **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, 650 West State Street, Boise, Idaho 83720.
- **Gem Scholarships** (in the amount of nonresident fees) are available to out-of-state students with strong academic records. Students interested in high-tech majors are especially encouraged to apply. Simply submit all admission materials by February 1 to be considered. Students who miss the February 1 deadline or who are entering spring semester should contact the Admissions Office at 208 426-2384.
- **Western Undergraduate Exchange (WUE) Awards** can reduce the cost of nonresident fees for a limited number of students coming to BSU from Alaska, Arizona, Colorado, Hawaii, Montana, Nevada, New Mexico, North Dakota, Oregon, South Dakota, Utah, Washington or Wyoming. To qualify, you must have a high school or college grade-point average of at least 3.0. Students in the following programs are ineligible: nursing, radiologic sciences, and some applied technology programs. You may renew a WUE award from year to year, but only if you maintain at least a 2.0 grade-point average and earn at least 22 credits during the academic year (excluding summer sessions). Students should submit all admissions materials by February 1. Interested students should contact the Admissions Office at 208 426-1757 for application instructions.

Waivers of nonresident fees are also available to a limited number of undergraduate and graduate students who have good academic records or demonstrated financial need. Through a reciprocity program with Washington, a few waivers of nonresident tuition are available to Washington residents. To apply, complete the FAFSA.

## How to Apply for Financial Aid

1. ***Complete the Free Application for Federal Student Aid (FAFSA)***. You must submit the FAFSA if you are applying for federal loans, grants, or work-study. The FAFSA is available from the Financial Aid Office in January. Listed below are the options available for submitting the FAFSA:

- FAFSA on the Web (www.fafsa.ed.gov): This is the preferred method of submitting the FAFSA, and may save weeks in processing time over the paper application. Please note that unless you (and your parent, if you are a dependent student) have a PIN, you are required to send a signature page within 14 days of transmitting your FAFSA on the Web. Parents of dependent students will also need a PIN, or
- Renewal FAFSA: Students who applied for financial aid by November 1 will receive a renewal application. Only updated information needs to be entered on this application. If you have a PIN, you may complete the renewal application over the web at www.fafsa.ed.gov. You may also complete the paper renewal application.
- Paper FAFSA: The paper FAFSA is available for students who prefer to apply by mail.

**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. If you apply electronically and do not have a PIN, you must send in the signature page within 14 days of transmitting your FAFSA.
- Do not send tax documents or other materials with your application or signature page.
- You will be sent a Student Aid Report (SAR) after submitting your FAFSA. Carefully review it, and make any necessary corrections. Please note that marital status cannot be updated if it changes after filing the FAFSA.

2. **Submit Verification materials, if requested**. Certain applicants are requested to provide documents to verify information reported on the FAFSA. If you are selected for verification, the Financial Aid Office will send to you a list of required documents. Examples of requested documents include:

- College Enrollment Verification Form (mailed to you by Boise State).
- 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. If you do not have a copy of these forms, you may submit a signed transcript of your tax return (RTFTP form), which you can request directly from the Internal Revenue Service (IRS).
- W-2 Forms. Submit a copy of all W-2 forms corresponding to the requested tax returns. Duplicate copies of W-2 forms may be requested from your employer(s).

3. **Be aware of deadlines.** Students applying for need-based scholarships must submit the FAFSA by February 1. A student is given priority status for other need-based aid if his or her FAFSA is processed by April 1. We recommend that a paper FAFSA be submitted by March 1, or FAFSA on the Web be transmitted (and signature page mailed) by March 15, in order to meet this deadline. Priority filers are considered for aid programs with limited funding, and are more likely to have aid disbursed in time for the fall fee payment deadline. If your application is processed after April 1, you may still be eligible to receive financial aid; however, the Financial Aid Office may not be able to process your application in time to award the aid by the deadline for paying your fall registration fees. To retain your priority status, you must submit all requested documents to the Financial Aid Office prior to June 1.
4. **Applying for Scholarships.** Students who have applied for admission by February 1 and all currently enrolled students who have a 3.0 or better gpa will be considered for department scholarships. Some departments require an additional application. A supplemental scholarship application is also required for some specialized scholarships (if you meet criteria listed on the supplemental scholarship application). A listing of the departments requiring a supplemental application is available on the Web at http://stuaff.boisestate.edu/financialaid/Scholarship.htm. The supplemental scholarship application is also available on this site. Need-based scholarship applicants must complete the FAFSA by February 1.
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. Students interested in applying should complete the summer financial aid application, found in the BSU Summer Bulletin. Please note, also, that your Free Application for Federal Student Aid must be submitted by May 1 for you to be eligible for financial aid for summer sessions.

## How Financial Aid Is Distributed

In March, the Financial Aid Office begins mailing award notices to students who have applied for scholarships. Throughout the year, as applications are processed, the Financial Aid Office mails similar notices to students who have applied for need-based aid.

Financial aid is first applied to your registration fees, 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.

**NOTE:** All financial aid checks are distributed from the Administration Building, Room 209. Please direct questions about your balance funds to that office.

## 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 tuition and fees if they withdraw from the university after the tenth day of classroom instruction. Federal financial aid regulations state that eligibility for aid be recalculated whenever a student withdraws from BSU, 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. Examples of these calculations can be found on the Web, at http://stuaff.boisestate.edu/financialaid/.

Once a student officially withdraws, the Account Maintenance Office will determine if/what is owed, and the Financial Aid Office will provide notification of adjustments to financial aid funding. If you have questions about what will happen when you withdraw, please stop by the Account Maintenance Office for advice, Room 209 Administration Building, (208) 426-2134.

## Satisfactory Academic Progress

If you are receiving financial aid, you must:

- enroll for the purpose of obtaining a degree, diploma, or certificate
- maintain good academic standing (that is, you cannot be on probation)
- complete your degree requirements within the maximum time allowed, which is a maximum credits attempted of 150% of the credits needed to complete a specific program

## Credit Information and Requirements

1. All students will be required to complete at least 75% of all credits attempted. Example: A student attempts 18 credits during fall semester and 9 credits during spring semester for a total of 27 credits attempted. If the student completes at least 21 credits, the 75% rule of the standard has been met.
2. Credits attempted are defined as all classes for which a student receives a passing grade, or a grade of "F", "I", "IP", or "W". (The "W" is recorded on withdrawals or dropped classes 10 days after the start of fall or spring classes. This period differs in the summer terms.)
3. Credits completed are defined as all classes for which a student receives a passing grade of "A", "B", "C", "D", or "P".
4. Development courses (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.
5. Audit credits do NOT count either as credits attempted or completed.

## Limited Financial Aid Status

**For one semester,** the following students attend BSU under limited financial aid status:

- students who transfer to BSU with a probationary grade-point average
- students who have credit or GPA deficiencies, but have not attended BSU for more than three years

## Normal Path of Advancement

For you to make satisfactory academic progress, your studies at BSU must follow a normal path of advancement from certificate to degree or from degree to degree. That is, you are expected to move from a certificate to a baccalaureate degree, from an associate's degree to a baccalaureate, or from a baccalaureate to a master's degree.

## Satisfactory Academic Progress Review

The university reviews all financial aid files at the end of the spring semester. If you are not making satisfactory academic progress, you will be ineligible for financial aid until you are once again making satisfactory academic progress.

**Appeals** If the university declares you ineligible to receive financial aid because of your failure to make satisfactory academic progress, you have the right to file a written appeal for temporary exemption from this policy. 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 will be mailed to you by the Financial Aid Office if it is determined you have not met the minimum guidelines.

## Study Abroad and NSE Programs

Federal financial aid is available to qualified students who wish to participate in a University approved off-campus study program, such as National Student Exchange (NSE) or study abroad. Students must complete the FAFSA, and meet all eligibility requirements pertaining to the federal aid programs.

## 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—Student Housing

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

**NOTE:** If you wish to live in university housing while attending BSU, you must submit two applications: one for housing and another for admission to the university. If you apply for housing, the Office of Student Housing accepts your application for housing, processes the application, and accepts payment from you for housing. However, none of those actions constitutes acceptance or approval of your application for admission to the university. Likewise, being accepted for admission to the university does not mean that your application for housing has been accepted and approved.

## 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). Furthermore, BSU accepts listings of off-campus, privately-owned accommodations with the understanding that the accommodations are operated in a manner consistent with this fair-housing policy.

## University Residence Halls

Altogether, the four on-campus residence halls accommodate more than 890 students. Of those students, most are undergraduate students living in **Chaffee Hall** (430 students) or **John B. Barnes Towers** (300 students).

- **Chaffee Hall** is divided into three separate 3-story units; enclosed corridors connect the units to a common area containing a lounge, office, and recreational facility. Each floor is air conditioned, has a small informal lounge, study room, bathrooms, and laundry facilities. Two students occupy each room. All rooms are equipped with a telephone and cable television. The new wing of Chaffee Hall has double rooms with connecting semi-private bathrooms. Chaffee Hall also houses a computer lab.
- **John B. Barnes Towers** consists of six residential floors: the first five floors are coed only, the top floor is for women only. The carpeted and air-conditioned residence hall is equipped with study lounges, laundry facilities, and a computer lab. Four students occupy each suite. Each suite has its own bathroom and telephone.
- **Morrison Hall** and **Driscoll Hall** are both coed and nearly identical in design. Each hall contains 54 single and 13 double rooms, arranged into suites housing 7 to 12 students. Preference will be given to students who are 21 years or older for Morrison Hall. These preferences do not apply to Driscoll Hall, though applicants requesting housing in Driscoll Hall are given priority if they are students participating in the Honors College.

If you wish to stay in a residence hall during semester break, you will be charged on a per-day basis, in addition to the charges covered by your housing contract. Meal service is suspended during these times.

## Cost Information

When the Office of Student Housing accepts your application for housing in one of the residence halls, your contract covers room and board for one academic year, as well as the costs of local telephone service, cable TV service, and state sales tax. Housing prices also include a nonrefundable fee of $25 to cover the expense of student government programs and special events held in the residence halls. Table 8.1, below, lists 2000-2001 prices for housing in the residence halls, along with the meal options available.

**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 BSU to base its charges on both room **and** board. If you apply for on-campus housing, you must select one of the meal options shown in Table 8.1.

**Table 8.1**
**Meal Options and 2000-2001 Prices**

| Options | Room Choices | |
|---|---|---|
| | Double | Single |
| Option 1: (19 meals per week, 3 each weekday and 2 on Saturday and Sunday) | $3,685 | $4,185 |
| Option 2: (Any 15 meals of the 19 available per week) | $3,570 | $4,065 |
| Option 3: (Any 10 meals of the 19 available per week ) | $3,395 | $3,895 |
| Option 4: 135 meals and $140 of Flex Dollars per semester | $3,685 | $4,185 |
| Option 5: 100 meals and $185 of Flex Dollars per semester | $3,570 | $4,065 |
| Option 6: 70 meals and $215 of Flex Dollars per semester | $3,395 | $3,895 |

**NOTE:** When you pay your bill for housing, you pay for the meals specified in the option you have selected. However, the university cannot give you a refund for any meals you do not eat. All room and board prices and other charges are subject to change at any time by the State Board of Education, acting as Trustees for Boise State University.

**Rules and Regulations** Rules and regulations governing student housing are defined generally in this chapter and more specifically in the *BSU Student Handbook*, the *Residence Hall Contract*, and the *Residence Hall Handbook*. Housing contracts issued by the Office of Student Housing incorporate by reference all of these rules and regulations.

**Housing Preferences** If your application for residence hall housing is accepted, BSU will assign you to a room in one of the four residence halls. In doing so, BSU will make every effort to accommodate the preferences you have indicated on the application. However, priority is given to continuing residence-hall students over new residence-hall students. Room assignments are based on the date your application is received (along with the $125.00 application fee/security deposit). If you have a roommate preference, the two of you should arrange for your applications to arrive at about the same time, so you will be about equal in priority. In any event, you should apply for housing as soon as possible, so that you can better your chances of receiving the accommodations you prefer. Finally, please note that the preferences you indicate on the housing contract are not themselves contractually binding, though they will be honored whenever possible.

## How to Apply for Residence Hall Housing

To apply for housing in one of the residence halls, request an application from the New Student Information Center, Boise State University, 1910 University Drive, Boise, ID 83725. To request an application by telephone, call 208 426-1820. Complete the application according to the instructions and return it to the Payment and Disbursement Center, Administration Building, Room 211 with the $125.00 deposit. The residence hall application is part of the admission packet.

## University Apartments

Married students, single students, and single students with children may apply to rent apartments in one of five BSU complexes: University Courts, University Heights, University Manor, University Park, and University Village. Nearly 300 apartments are available, all within walking distance of the campus. A community center and computer lab are open to all apartment residents.

- **University Courts** consists of one-bedroom apartments (both small and large), two-bedroom apartments (both small and large), and three-bedroom apartments, all of them carpeted and equipped with a stove and refrigerator. Coin-operated laundry facilities are located on site, and all utilities except electricity are provided.
- **University Heights** and **University Manor** consist of one-bedroom and two-bedroom apartments, each of which is fully carpeted, air conditioned, and equipped with a stove and refrigerator. Coin-operated laundry facilities are located on site. Tenants pay all utilities except water, sewer, and trash.

- **University Park** consists of two-bedroom and three-bedroom apartments, each of which is fully carpeted, air conditioned, and equipped with a stove and refrigerator. Coin-operated laundry facilities are located on site. Tenants at University Park pay all utilities except water, sewer, and trash.
- **University Village** consists of two-bedroom apartments, each of which is fully carpeted, air conditioned, and equipped with a stove, refrigerator and dishwasher. Coin-operated laundry facilities are located on site. A computer lab is located at University Village. Tenants at University Village pay all utilities except water, sewer, and trash.

**Eligibility** The BSU apartments are reserved for undergraduate students taking 8 credits or more and graduate students taking 6 credits or more. Priority is given to married students and married or single students with children. Single students without children may rent one- and two-bedroom apartments.

**Cost Information** Table 8.2 contains 2000-2001 monthly rental rates for units in the apartment complexes operated by BSU.

**Table 8.2**
**Rental Rates Per Month (2000-2001 Prices)**

| Apartment Complex | | Monthly Rent |
|---|---|---|
| University Courts: | Small One Bedroom | $361 |
| | Large One Bedroom | $425 |
| | Small Two Bedroom | $442 |
| | Large Two Bedroom | $479 |
| | Duplex Two Bedroom | $479 |
| | Three Bedroom | $524 |
| University Heights: | One Bedroom | $416 |
| | Two Bedroom | $452 |
| University Manor: | One Bedroom | $416 |
| | Two Bedroom | $452 |
| University Park: | Two Bedroom | $457 |
| | Three Bedroom | $489 |
| University Village: | Two Bedroom | $497 |

**NOTE:** All rental rates and other charges are subject to change at any time by the State Board of Education, acting as Trustees for Boise State University.

## Applying to Rent an Apartment

To apply to rent an apartment, use the application in the university application packet or request an application form from the New Student Information Center, 1910 University Drive, Boise, ID 83725, 208 426-1820, or from the Office of Student Housing, Administration Building, Room 214, Boise State University, Boise, ID 83725, 208 426-3986. After completing the application, return it to the Payment and Disbursement Center, Administration Building, Room 211, along with a check or money order for $125. The university will conduct a credit check and a review of your references. If your application is accepted, BSU will apply the $125 to the deposit.

BSU will notify you when an apartment is ready. When you move in, you must sign a month to month lease. Finally, you must pay a security/damage deposit of $250 (minus the $125 you enclosed with your application).

When you move out of the apartment, BSU deducts a $25 processing fee from your security/damage deposit. If no damage is present, BSU refunds the balance of your deposit; if damage is present, some or all of your deposit may be applied to the cost of repairing the damage. You may also be liable for repair costs that exceed the amount of your deposit.

## Off-Campus Student Housing

To assist students in locating off-campus housing, the Office of Student Housing maintains lists of houses and apartments available for rent or lease from private parties. The university does not inspect any of the listed property, and it does not verify the accuracy of the listings. For these reasons, the university can assume no responsibility for the consequences of using these lists to locate suitable housing; that responsibility lies solely with the student. In any event, the university recommends that you put in writing, any agreement you reach with a landlord or property owner, specifying the obligations and expectations of each party.

## ? Questions About Student Housing?

If you have questions about student housing, contact the Student Housing Office, Administration Building, Room 214, 208 426-3986.

# 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
- Family and Health
- Student Organizations
- Other Student Services

## Academic

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.

**Career Center** For all students and BSU graduates, the Career Center, located in the Alumni Center at 1173 University Drive, 208 426-1747, offers career counseling, assistance in selecting a major, and employment assistance (including instruction in writing resumes and cover letters), videotaped interview training, job-search skills seminars, and coordinates the university's internship programs. The Career Center has two automated career-guidance systems, as well as a resource library containing career-oriented publications and information about job prospects, salaries, and job descriptions. In addition to sponsoring an annual career fair and graduate/professional program day, the center maintains reference files for graduating students and, upon request, forwards copies of the files to potential employers. Graduating students and alumni can review job listings from businesses, industries, government agencies, and school districts and schedule on–campus interviews with employers. Further information is available at http://career.boisestate.edu.

**Gateway Center** If you are currently enrolled but have not yet selected a major, you should come to Advising Services, located in the Gateway Center at 2055 University Drive, 208 426-4049 for assistance in selecting courses, meeting general university requirements, and exploring academic opportunities.

**International Programs/Studies Abroad** Academic study and travel opportunities to a variety of countries are available through the International Programs/Studies Abroad programs administered by the Division of Extended Studies. Students and faculty may spend a semester or a year in Germany, Spain, France, Italy, England, Canada, Costa Rica, Chile, China, Thailand, New Zealand, Ireland, Australia, Denmark, Malta, Israel, or Scotland. Summer campuses are located in Spain, France, Italy, England, Denmark, Germany, China, Mexico, Costa Rica, Canada and the Czech Republic. Staying in local homes or in apartments with international students, studying a balanced curriculum, and making frequent field trips creates a rich cultural and academic experience for BSU students, who receive BSU credit for studies in these programs. In addition, several short-term study tours to locations in Europe, the United States, and Asia are offered at various times of the year. For more information about International Programs/Studies Abroad, call 208 426-3652. For more information about study tours, call 208 426-3295.

**National Student Exchange Program** Involving over 170 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, Puerto Rico, the Virgin Islands, or Guam. While attending the host institution, students may pay either the current BSU 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 BSU, 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 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, 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.

**Orientation** Before and during your first semester at BSU, all new freshman, returning and transfer students participate in the academic and social events offered by the Gateway Center for Academic Support and Student Orientation Programs. The events are designed to assist new students in making the transition into the university community as a successful student. Phase I of the Gateway Program includes orientation, advising, and registration for classes. Phase II extends into the semester with a variety of academic and social events. There is a high positive correlation with student success and new student orientation programs. For more information, call 208 426-4049.

**Student Success Classes** A variety of student success classes are offered to all students at BSU. 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 BSU. For more information contact the Center for Academic Support and Student Orientation Programs, 208 426-4049.

**UNIV 101 FRESHMAN SEMINAR (3-0-3)(F/S).** Students will develop life skills and attitudes needed to achieve educational and personal goals. Exploration of university resources, services, and policies. 10 hour service-learning component.

**UNIV 105 READING AND STUDY STRATEGIES (1-2-2)(F/S).** Strategies included: reading, textbooks, selecting key information from various types of text, note taking, preparing for tests, and test taking. (Pass/Fail)

**UNIV 106 LIBRARY SKILLS (0-2-1)(F/S).** Designed to assist students in gaining proficiency in use of both computerized and printed library materials. Independent, self-pace course. (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)

**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 BSU Extended Studies, 208 426-3492.

**Tutorial Services** Tutorial Services, housed in the Gateway Center located at 2055 University Drive, provides tutoring services to complement classroom instruction. Currently enrolled students are eligible to receive tutoring through campus drop-in centers or tutor-led study groups. If you wish to hire a private tutor, tutorial services can provide a list of qualified tutors. 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.

- The Math Tutoring Center is located in the Math/Geosciences Building, Room 243.
- The Larry G. Selland College of Applied Technology's Basic and Applied Academic Division is located in the Technical Services Building, Room 215, and a similar center is located at the Canyon County Campus, Room 117.

**Writing Center** At the Writing Center, located in the Liberal Arts Building, Room 200, 208 426-1298, you can receive free consultation on your writing, in any subject. Appointments are recommended, but drop-ins are welcome. The center's hours are:

- Monday, 9:00 a.m. to 2:30 p.m. and 3:40 p.m. to 6:00 p.m.
- Tuesday through Thursday, 9:00 a.m. to 6:00 p.m.
- Friday, 9:00 a.m. to 4:00 p.m.
- Saturday, 10:00 a.m. to 4:00 p.m.

To make the best use of the center, bring a piece of writing you are working on. Also, if possible, bring a copy of the assignment. If you have no draft because you are having trouble getting started, come anyway. A consultant will help you generate ideas.

The Writing Center's web site can be found at http://www.boisestate.edu/wcenter/. There you will find the center's *Word Works* publication and links to a wealth of writing resources at other web sites.

## Family and Health

The organizations listed below offer services related to family and health, from counseling and testing to child care and medical treatment.

**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. For more information telephone 208 334-4404.

**Counseling and Testing Center** The Counseling and Testing Center's primary purpose is to help students deal more effectively with concerns that influence their pursuit of personal and academic goals. The Center 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 BSU. In particular, the Center assists students in resolving such matters as interpersonal conflicts, test anxiety, stress-related problems, depression, couples' concerns, and social and emotional problems. The Center also administers many standardized tests, including CLEP, NTE, LSAT, GRE (subject only), GMAT, MAT, and others. Services are free to all students. To make an appointment, call 208 426-1601 or 426-1661 between 8 a.m. and 7 p.m., Monday through Thursday and between
8 a.m. and 5:00 p.m. on Friday, or stop by the center (sixth floor of the Education Building).

**Insurance Coverage** All full-fee-paying students (those enrolled for 8 or more credit hours) are automatically covered by the health insurance program on the first day of classroom instruction or the day fees are paid (if the student is paying late). 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 the first day of classroom instruction and ends on the first day of the spring semester. Spring semester benefits continue through August of that year. Student health insurance benefits are available to dependents and to part-time students who pay less than full fees but are enrolled in at least three credit hours each semester.

**Refund Policy** Any student with existing health insurance coverage may be exempt from participation in the Student Health Insurance Program by completing the **Request for Refund of Insurance** portion of the Tuition and Fees bill.

Boise State University Student Health Service (described below) is a separate program not connected with the health insurance. All enrolled students are eligible for medical assistance or service from Student Health Service with or without insurance.

Boise State University carries liability insurance covering all on-campus and official functions.

**Health Center** Full-fee-paying students may receive outpatient medical care at the Health Center, located at 2103 University Drive, 208 426-1459. The Health Center is equipped to address most of the student's outpatient health-care needs, and will gladly make referrals when tests or procedures are beyond the scope of the clinic's facilities and staffing. Costs for health care services are covered through student fees, but additional charges are made for laboratory work, medications, and specialized procedures. Students are financially responsible for any services received outside of the Health Center. Located directly across University Drive from the Public Affairs/Arts West Building, the clinic is open from 8:00 a.m. to 7:00 p.m., Monday through Thursday, and 8:00 a.m. to 5:00 p.m. on Friday, whenever classes are in session. Summer hours are 9:00 a.m. to 3:00 p.m., Monday through Friday, when classes are in session. Students not enrolled in summer school, but who were full-fee-paying during spring semester are eligible for summer services for a minimal cost. Part-time students may also use the Health Center for a fee for services and miscellaneous lab and medication costs.

## Student Activities

Boise State University offers students the opportunity to participate in over 160 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.

Among the services funded by student fees are the *Arbiter* (the student newspaper) and the Volunteer Services Board (Community Service). In addition, the Student Programs Board presents a variety of performing–arts events, lectures, concerts, comedians, films, special events, and family activities. For additional information call the Student Activities Office at 208 426-1223.

**Student Government** The Associated Students of Boise State University (ASBSU) strives to represent the interests of all BSU 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 organizations and student government, call the Student Activities Office at 208 426-1440.

**Student Government Courses** Students who are currently serving in major student government offices may participate in independent study in student government. This study will be coordinated by the vice president for student affairs and may be taken in any department of the college (provided that an instructor is willing to direct the study). The ASBSU president and vice president are eligible for this study, as are senators and appointed officers. Credits may not exceed three in any one semester or six in one academic year. A maximum of nine credits in all independent study will be accepted toward graduation. To receive credit for this study you must complete an *Application for Independent Study* form and register for:

**STUDGOV 188, 496 STUDENT GOVERNMENT INDEPENDENT STUDY (1-3 credits)**

## Other Student Services

Listed below are a number of services and programs provided to students, staff, and faculty, including services offered by the Student Services Office, the Veterans Services Office, and the Women's Center.

The **BSU Minority Assistance Coordinator** serves as an advocate in matters concerning minority-student support programs and assists in developing additional services that encourage minority students to stay in school. A primary objective is to promote awareness, understanding, and cooperation among students, faculty, staff, and the community, as well as to encourage appreciation for a diverse population. Located in the Gateway Center, the coordinator also assists student organizations as they develop, implement, and coordinate ethnic/diverse programs, working with various groups at different times but generally collaborating with the Organization of Students of African Descent, *Organization de Estudiantes Latino-Americanos*, Hui-o-Aloha, and Intertribal Native Council.

**International Students** The International Programs Office advises all international students, assisting with Immigration regulations, visas, academic advising, orientation, and registration. Upon arrival in Boise, new international students must report to the International Programs Office, located at 1136 Euclid, 208 426-3652, This office serves as a central source of information for all international students.

**Multi-Cultural Center** Located in the Student Union Building Annex II, 208 426-4259, the Multi-Cultural Center is a place where students can meet in a relaxed, friendly atmosphere. The Multi-Cultural Center promotes cultural diversity and appreciation through campus-wide cultural awareness programs and through the support of BSU's ethnic organizations' festivals and events. Operated through the Student Activities Office, the Multi-Cultural Center also provides a forum for workshops aimed at helping students learn the skills they need for a successful experience at BSU.

**Nontraditional Students** Services provided for nontraditional students (new or returning students who are not attending BSU directly from high school). include student support groups, a newsletter, a mentoring program, and workshops. Referrals are also made to campus or community organizations offering specialized services of benefit to nontraditional students.

**Student Employment** Currently registered, part-time and full-time students are eligible for referral to on– and off–campus employers. Incoming students who are admitted for a future semester are eligible for referral at the end of the current semester. Part-time, full-time, temporary, and seasonal positions are available. Both skilled and unskilled jobs are available. This

service is available at the Career Center in the Alumni Center at 1173 University Drive, 208 425-1747. Further information is available at http://career.boisestate.edu.

**Student Services Office** Housed in the Administration Building, Room 114, 208 426-1583, the Student Services Office provides the following services:

- The **Disabilities Services Office** is responsible for providing support services that enable all students with disabilities to participate in BSU's educational programs and activities. Provides students, faculty, and staff with information about specific disabilities. The office consists of the Special Services Coordinator and the Learning Disabilities Specialist. Among the services provided are:
    - student advocacy
    - screening interviews
    - referrals to local diagnosticians and community services
    - accommodation letters for instructors
    - information and orientation to the university
    - registration assistance
    - interpreter and reading services
    - help setting up note taking services
    - testing accommodations
    - various other support services

In addition, a limited amount of equipment is available for temporary use by students with disabilities, including a TTY, modified computer terminals, talking spell checkers, and FM loop hearing systems. Other equipment is available at the Albertsons Library, including a Vantage Eric-W, Braille typewriter, Braille dictionary, a Talking Book player, and various reading accessories.

**Student Success Program** The Student Success Program provides individualized counseling and tutoring services to students who are low-income or first-generation college students, or who have a documented disability. The counseling services assist students with their academic, career, financial, and personal needs. Qualified tutors provide one-to-one or small-group tutoring in various academic areas. The Student Success Program is located next to the parking garage in the Old Health Science Building, Room H 116, 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, reservists, and National Guard members, as well as to their dependents. Peer counselors assist student veterans with admission requirements, Veterans Administration educational benefits, reserve educational programs, individual educational goals, and family and personal difficulties. Tutorial and work-study programs for veterans are also coordinated through the Veterans Services Office.

**Women's Center** The Women's Center, located at the corner of University Drive and Lincoln, 208 426-4259, provides support services and resources to enhance the quality of student life and to promote academic success. Services include special programs for re-entry women, support groups, educational workshops, mentoring programs, a resource lending library, and supportive referrals on many areas specific to women and gender issues. The Center focuses on providing educational programming and resource/referral information, while providing a safe and comfortable place for students to gather and study.

# Chapter 10—Extended Studies

The Division of Extended Studies is committed to responding to diverse student populations as they discover and fulfill their potential in today's rapidly changing world. Our programs expand the range of educational opportunities offered by the seven academic colleges - on campus, at area and international sites, through the use of current technologies and in convenient time frames. Programs administered by Extended Studies include off-campus sites, summer programs, Weekend University, courses delivered at a distance through the use of technology, specialized certificate programs, international programs, inservice training opportunities for teachers, and university-wide noncredit programming to serve the needs of area business, industry, and government.

## Summer Programs

Academic programs, courses, and services are offered during the summer, including graduate, undergraduate, and noncredit courses in one 3-week session, two 5-week sessions, two 8-week sessions, and a 10-week session. A variety of workshops is also offered each summer. The *BSU Summer Bulletin* is available to students each spring. For more information, call 208 426-1709.

## 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 BSU faculty and BSU adjunct faculty. For more information, call 208 426-1709.

## Off-Campus Centers

The Division of Extended Studies offers a wide range of academic courses. Required courses for associate degrees are offered at all sites. Advising, registration, book sales, and library services are available at most off-campus centers, 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:

BSU Canyon County Campus
2407 Caldwell Boulevard, Nampa ID 83651
208 426-4701

Capital High School
8055 Goddard Road, Boise ID 83704
208 426-1709

Gowen Field Campus
Harvard Street, Building #521, Gowen Field, Boise, ID
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

## Evening Programs

The Division of Extended Studies coordinates the evening program on the BSU campus. Evening courses are offered at several different time blocks throughout the campus. Every college and most academic departments offer evening sections. Approximately 4,000 students attend BSU during the evening hours. Courses are taught by full-time BSU faculty and approved adjunct faculty.

## Distance Education Classes

BSU offers programs to off-campus locations and individual homes and workplaces through technology-mediated distance education methods such as: Knowledge Network and cable television, telecourses, Boise State Radio Classroom, Distance Learning Network videoconferencing, and the Internet.

### Knowledge Network and Cable Television

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

### Telecourses (Idaho Educational Public Television)

Each semester, BSU students have the opportunity to earn university credits at home through a mix of televised lectures and textbook readings. Some telecourses satisfy BSU core requirements, while others satisfy requirements for elective credits. These courses usually require some on-campus attendance. For more information, call 208 426-1709. See also Chapter 11, "Obtaining a Degree at BSU."

### Boise State Radio Classroom

Combining teleconference and talk show formats, instructors create a virtual classroom in your home, with the ability to connect with experts in their field from anywhere in the world. Students with computers with appropriate software (that can be downloaded free) can alternatively listen to the course via the Internet.

### Courses Offered Via the Internet

Instruction using computers, the Internet, and/or modems allows students throughout Idaho and the United States to participate in BSU courses. Undergraduate classes are available, as are classes leading to master's degrees in instructional and performance technology and educational technology. For more information, call 208 426-1709.

### Distance Learning Network Video conferencing

This two-way compressed video technology is used to offer several undergraduate offerings to a wide variety of off-campus locations. Students at both send and receive sites view each other on monitors and interact with each other and the instructor.

### Dual Enrollment for High School Students

**Jump Start Program** A dual enrollment program has been established for eligible students to take college level courses while still in high school. Students can earn university and high school credit simultaneously. Accumulating college credit while in high school can accelerate a student's degree completion and result in cost savings. Boise State University credit is transferable to most other colleges and universities. This program for high school juniors and seniors encompasses both academic and applied technology courses. For additional information about academic programs call Patricia Lachiondo at 208 426-2037 and for applied technology programs call Nancy Ness at 208 426-4029.

## 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. For more information, call 208 426-3293. Tests are proctored at the BSU Counseling and Testing Center; call 208 426-1661. See also Chapter 11, "Obtaining a Degree at BSU."

## Credit for Prior Learning

It is possible to receive credit for prior learning experiences (often referred to as "experiential learning") by taking standardized tests or course-specific challenge exams or developing a formal, professional portfolio documenting the knowledge you have gained outside the classroom. The portfolio describes the knowledge gained through work and other experience and shows the relationship that knowledge has to college-level learning. The academic department in which you are seeking credit administers challenge exams and assesses the portfolio and determines whether or not to grant the credit. Each department has the option of participating in the credit for prior learning process. For more information, call 208 426-1709 or 208 426-4249. See also Chapter 11, "Obtaining a Degree at BSU."

## International Programs/Studies Abroad

Academic travel opportunities to a variety of countries are available through International Programs administered by the Division of Extended Studies. Students and faculty may spend a semester or an academic year in Germany, Spain, France, Italy, England, Ireland, Canada, Chile, Costa Rica, Thailand, New Zealand, Australia, Denmark, Malta, Israel, or Scotland. Summer campuses are located in Spain, France, Italy, England, Denmark, China, Thailand, Mexico, Costa Rica, Canada, and the Czech Republic. Staying in local homes or in apartments with international students, studying a balanced curriculum, and making frequent field trips create a rich cultural and academic experience for BSU students, who receive BSU credit for studies in these programs. In addition, several short-term study tours to locations in Europe, the United States, and Asia are offered at various times of the year. For more information about International Programs/Studies Abroad, call 208 426-3652. For more information about study tours, call 208 426-3295.

## Intensive English Program

Boise State's intensive English Program offers 20 hours of classroom instruction per week plus field experiences. The program is organized into 8-week and 16-week modules during the fall and spring sessions and two 4-week sessions during the summer. Students may enroll until language proficiency goals are achieved. Language skills are developed through a thematic approach using discussions, readings, writing, and communicative grammar. Program components include skill development in reading, writing, listening, and speaking; literacy strategies for academic success; TOEFL preparation; and individualized tutoring. Students are engaged in critical thinking - analyzing, synthesizing, and evaluating cultural ideas and values - while improving English language skills through classroom practice and field experiences. For more information, call the International Programs Office at 208 426-3652 or check the web site at http://www.boisestate.edu/conted/intprg

## National Student Exchange Program

Involving over 170 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, Puerto Rico, the Virgin Islands, and Guam. While attending the host institution, students may pay either the current BSU 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, a student must be enrolled full-time at BSU, 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 International Programs Office, 208 426-3652.

## In-Service Program for Teachers

Working closely with local school districts, the Idaho State Department of Education, and the BSU College of Education, the In-Service Program enables teachers to earn credits required for recertification and salary advances. For more information, call 208 426-3191.

## Certificate Programs

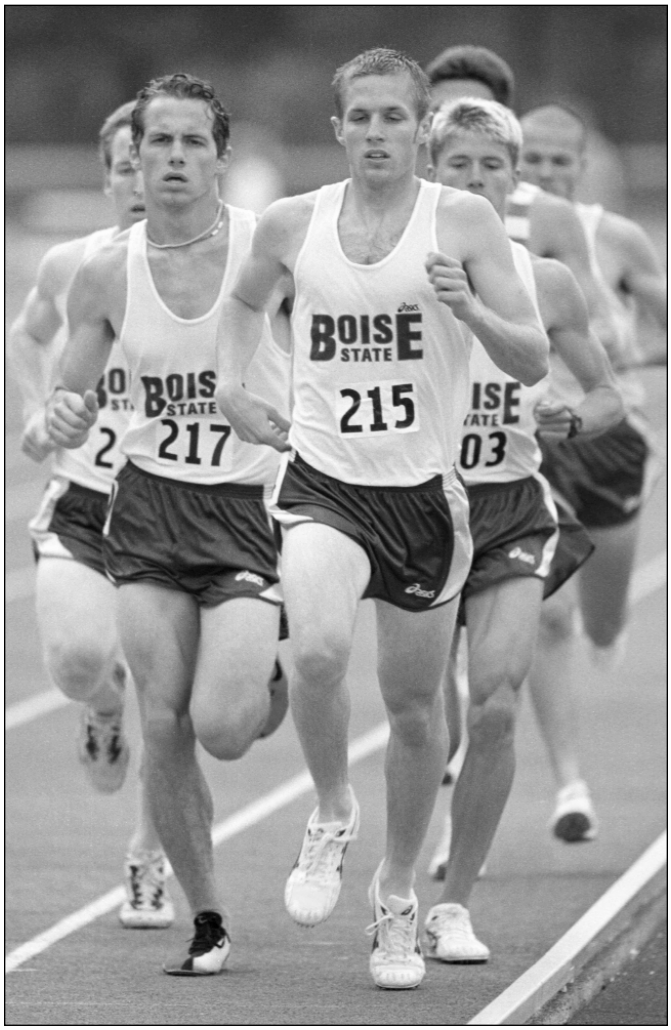
The Division of Extended Studies offers certificates of completion in several credit and noncredit programs. The following is currently available: Child Development Associate Program. Please see the semester schedule for more information.

## 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 twice yearly by the Division of Extended Studies, 208 426-3492.

## 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 208 426-2281.

## 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 208 426-3492.

## Dual Enrollment Programs for High School Students

Extended Studies works with area high schools and BSU's academic departments within the seven colleges to provide opportunities for area high school students to receive university and high school credits simultaneously. For more information, call 208 426-2047.

## ? Questions About Extended Studies?

If you have questions, contact the Division of Extended Studies, 1015 Grant Avenue, 208 426-1709.

# Chapter 11—Obtaining a Degree at BSU

Table 11.1 lists the types of degrees and certificates offered at Boise State University. Table 12.1 lists the degrees, majors, minors, certificates, and transfer programs offered at Boise State University, arranged by the program of study in which the degree, major, minor, certificate, or transfer program is available.

**Table 11.1 Types of Degrees and Certificates Offered at BSU**

| Code | Description | Code | Description |
|---|---|---|---|
| A.A. | Associate of Arts | M.B.A. | Master of Business Administration |
| A.A.S. | Associate of Applied Science | M.F.A. | Master of Fine Arts |
| A.S. | Associate of Science | M.H.S. | Master of Health Science |
| A.T.C. | Advanced Technical Certificate (Applied Technology) | M.M. | Master of Music |
| B.A. | Bachelor of Arts | M.P.A. | Master of Public Administration |
| B.A.S. | Bachelor of Applied Science | M.P.E. | Master of Physical Education |
| B.B.A. | Bachelor of Business Administration | M.S. | Master of Science |
| B.F.A. | Bachelor of Fine Arts | M.S.W. | Master of Social Work |
| B.M. | Bachelor of Music | Ph.D. | Doctor of Philosophy |
| B.S. | Bachelor of Science | P.V.C. | Postsecondary Technical Certificate (Applied Technology) |
| Ed.D. | Doctor of Education | T.C. | Technical Certificate (Applied Technology) |
| M.A. | Master of Arts | | |

Undergraduate degrees available at BSU 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, accounting, biology, or English). Depending on the major you choose, you will receive one of the many degrees offered by BSU. 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 business systems and computer repair, 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 BSU, as well as general policies applying to all degrees. After reading this chapter, you should turn to Chapter 13, "Academic Departments 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 Academic Advising Center, Gateway Center, 2055 University Drive, 208 426-3664.

## 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 students' 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 Services, located in the Gateway Center, 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 117. 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 Student Services, Technical Services Building, Room 111.

Boise State University 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 take your final 15 credits at BSU. In addition, you must:

- meet the English Composition Requirement (except for some majors)
- meet the Mathematics Requirement (except for some majors)
- 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

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 take your final 30 credits at BSU. In addition, you must:

- meet the English Composition Requirement (defined below)
- meet the Mathematics Requirement (except for some majors)
- complete a specified number of *core courses* (defined below), 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

# 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 a certain number of credits in English composition or demonstrate English proficiency in one of the other ways described below.

The English Composition Requirement is administered by the Writing Program Office within the English Department. Call the Writing Program Office at 208 426-1622 if you have questions about the requirements or procedures described below.

## 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 111 and ENGL 112, Honors Composition

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.

The course sequence you take depends on your score on the English portion of the ACT or SAT, as indicated in Table 11.2, below.

**Table 11.2**
**Course Placement or Sequence for Meeting the English Composition Course Requirement**

| ACT/SAT Score | | Class Indicated |
|---|---|---|
| **ACT**<br>**SAT** | 0-17<br>200-440 | Take ENGL 90,<br>then ENGL 101 and ENGL 102 |
| **ACT**<br>**SAT** | 18-24<br>450-560 | Take ENGL 101,<br>then ENGL 102 |
| **ACT**<br>**SAT** | 25-30<br>570-690 | Credit (P) for ENGL 101 (3 credits)<br>and placement in ENGL 102 |
| **ACT**<br>**SAT** | 31-36<br>700-800 | Credit (P) for ENGL 101 and ENGL 102 (6 credits) |

If you do not have ACT or SAT scores, you must take a COMPASS exam. See the *Directory of Classes* for details. Table 11.3, below, shows how you will be placed if you must take the COMPASS.

**NOTE:** If you *know* you want to start in ENGL 90, you do not need to take the COMPASS.

**Table 11.3**
**Placement or Sequence Following the COMPASS Exam**

| COMPASS Score | Class Indicated |
|---|---|
| 0-67 | Take ENGL 90, then ENGL 101 and ENGL 102 |
| 68-94 | Take ENGL 101, then ENGL 102 |
| 95-99 | Credit (P) for ENGL 101 and placement in ENGL 102 |
| | **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 *Directory of Classes* for details.

**Transfer Students** If you have transferred English composition courses from another institution to BSU, 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:** BSU 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.

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

**Transfer students** will need to contact the department to determine whether transfer courses not equivalent to a BSU 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.

# 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

The general-education core curriculum is fundamental to Boise State's mission. Preparing educated, literate people for careers and participation in society is accomplished, in part, as students gain foundational knowledge in English, the arts and humanities, social sciences, and natural sciences and mathematics. This breadth of knowledge in a variety of disciplines is essential for people living in a constantly changing world, for knowledge alone is not enough; students must also acquire certain skills while completing their general-education requirements. Critical thinking and problem-solving strategies, communication skills in a variety of modes and contexts, and an awareness of diverse intellectual and cultural perspectives are all outcomes achieved by successful students. Acquiring these skills and others enables students to become educated citizens who will actively contribute to and participate in society.

## 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 and problem-solving strategies vary from discipline to discipline and from one context to another. However, graduating students are expected to be able to do at least the following effectively, in a variety of subject matters and contexts:

### Critical Thinking/Problem Solving Skills

- clearly identify and analyze a problem; identify possible solutions
- distinguish questions of fact from questions of value and explain the interrelationship between the two
- employ, analyze, and evaluate arguments in terms of argument assumptions and logical structure
- employ, analyze, and evaluate both qualitative and quantitative methods of reasoning.

### Communication Skills

Appropriate modes and strategies of communication also differ from discipline to discipline and from context to context, but graduating students are expected to be able to do at least the following effectively, in a variety of subject matters and contexts:

- read, interpret, analyze, and evaluate written discourse
- write clearly and appropriately for a variety of purposes and for different audiences
- employ speaking, listening, and interpersonal communication skills appropriate to various rhetorical situations
- interpret, analyze, and evaluate spoken discourse
- identify and make appropriate use of information sources in both written and spoken discourse.

### Cultural Perspective

As a result of their university education, graduating students are expected to be able to do at least the following with regard to cultural perspective:

- explain their own cultural perspective and make meaningful comparisons between it and other cultural perspectives
- demonstrate reflective self-awareness with regard to their own individual perspectives and values and make meaningful comparisons between these and the perspectives and values of others
- make meaningful comparisons between the creative accomplishments of their own and other cultures
- recognize and understand the choices and responsibilities of involved citizenship.

### Breadth of Knowledge and Intellectual Perspective

As a result of satisfying general-education core requirements, graduating students are expected to have demonstrated the ability to do at least the following, at the introductory level, in relation to a sampling of fields of study in the arts and humanities, the social sciences, and mathematics and the natural sciences:

- articulate relevant basic assumptions, concepts, theoretical constructs, and factual information
- understand and apply relevant discipline-specific methodologies and strategies of inquiry
- apply appropriate critical-thinking/problem-solving skills and communication skills in discipline-specific contexts
- identify some of the fundamental similarities and differences between different fields of study
- appreciate the complexity and multiplicity of methods and standards of inquiry, as well as the diversity of opinion among informed inquirers within and among different fields of study.

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 BSU Institutional Assessment web site (http://www.boisestate.edu/assessmt/) and on the 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 its majors to take MATH 170, 171 Calculus I and Lab, 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 11.4, 11.5, and 11.6 list the approved courses offered at BSU 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 BSU," on page 46.

## Table 11.4
## Approved Area I Arts and Humanities Core Courses at BSU

ART - Art
- ART 100 Introduction to Art
- ART 101, 102 Survey of Western Art
- ART 105, 106 Basic Design

ENGL - English
- ENGL 215 Far Eastern Literature in Translation
- 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

FREN - French
- FREN 101, 102 Elementary French I and II
- FREN 201, 202 Intermediate French I and II

GERM - German
- GERM 101, 102 Elementary German I and II
- GERM 201, 202 Intermediate German I and II

HUM - Humanities
- HUM 207, 208 Introduction to Humanities

JAPN - Japanese
- JAPN 101, 102 Intermediate Japanese
- JAPN 201, 202 Intermediate Japanese

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

SPAN - Spanish
- SPAN 101, 102 Elementary Spanish I and II
- SPAN 108 Intensive Elementary Spanish
- SPAN 201 Intermediate Spanish I
- SPAN 202 or SPAN 203 Intermediate Spanish II
- SPAN 208 Intensive Intermediate Spanish

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

## Table 11.5
## Approved Area II Social Sciences Core Courses at BSU

ANTH - Anthropology
- ANTH 101 Physical Anthropology
- ANTH 102 Cultural Anthropology
- ANTH 103 Introduction to Archeology

CJA - Criminal Justice Administration
- CJA 101 Introduction to Law and Justice

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

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

If you earn credit in ECON 201 or ECON 202, you cannot receive credit for ECON 210.

EDUC - Teacher Education
- EDUC 201 Foundations of Education

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

*— continued —*

### *Approved Area II — Social Sciences (continued)*

HIST - History
- HIST 101, 102 History of Western Civilization
- HIST 105 Eastern Civilizations
- HIST 111, 112 U.S. History
- 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
- POLS 231 International Relations

PSYC - Psychology
- PSYC 101 General Psychology

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

SOCWRK - Social Work
- SOCWRK 200 Introduction to Social Welfare

## Table 11.6
## Approved Area III Natural Science and Mathematics Core Courses at BSU

BIOL - Biology — Biological Science
- BIOL 100 Concepts of Biology
- BIOL 191-192 General Biology I & II
- BIOL 227, 228 Human Anatomy and Physiology

CHEM - Chemistry
- CHEM 100 Concepts of Chemistry
- CHEM 101/CHEM 102 Essentials of Chemistry
- CHEM 111/CHEM 112 College Chemistry
- CHEM 115 Materials Science Chemistry

With the exception of CHEM 100, Concepts of Chemistry, all chemistry lecture courses (CHEM 101, CHEM 102, CHEM 111, and CHEM 112) have a corresponding laboratory course. You must enroll in both the lecture and the laboratory course at the same time. For instance, if you take CHEM 101, Essentials of Chemistry, you must also take CHEM 101L, Laboratory for Essentials of Chemistry.
If you receive credit for CHEM 102, Essentials of Chemistry or CHEM 112, College Chemistry, you cannot count CHEM 100, Concepts of Chemistry, toward the core requirements.

ENGR - Engineering
- ENGR 100 Energy for Society

GEOL - Geology
- GEOL 100 Fund of Geology
- GEOL 101 Physical Geology
- GEOL 102 Historical Geology

If you have earned credits in a geology course other than GEOL 100, Fundamentals of Geology, you cannot enroll in GEOL 100. In addition, you cannot enroll in GEOL 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 Mathematics As A Liberal Art
- MATH 130 Finite Mathematics
- MATH 143 College Algebra
- MATH 147 Precalculus
- MATH 160 Survey of Calculus
- MATH 170-171 Calculus I and Lab
- 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 Physical Science
- PHYS 105 Introduction to Descriptive Astronomy
- PHYS 111/PHYS 112 General Physics
- PHYS 211 Mechanics, Wave and Heat and Lab
- PHYS 212 Electricity, Magnetism and Optics

ZOOL - Zoology — Biological Science
- ZOOL 107 Concepts of Human Anatomy and Physiology

## Course Prerequisite

A *prerequisite* is a course (or courses) that you must have successfully completed before you can enroll in another course. For instance, before you can enroll in SPAN 102 Elementary Spanish, you must first have completed SPAN 101 Elementary Spanish. If a course has a prerequisite, the prerequisite is listed in Chapter 13, "Academic Departments and Courses" or in the *BSU Directory of Classes*.

Students must complete prerequisites listed in the catalog descriptions or Directory of Classes with a grade of "C" or higher prior to enrolling in the course. 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.

## 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 13, "Academic Departments and Courses."

## Credit Requirements for Various Degrees

Tables 11.7 through 11.19 define the minimum credit requirements for each degree offered at Boise State University.

**Table 11.7**
**Minimum Credit Requirements for the Bachelor of Arts Degree (B.A.)**

| Content | Notes | Credits |
|---|---|---|
| ENGL 101-102 | English Composition<br>See "How to Meet the English Composition Requirement" (above). | 6 |
| Area I | Area I core course in literature<br>Area I core course in a second field<br>Area I core course in a third field<br>Area I core course in any field | 3<br>3<br>3<br>3 |
| Area II | Area II core course in history<br>Area II core course in a second field<br>Area II core course in a third field<br>Area II core course in any field | 3<br>3<br>3<br>3 |
| Area III | Area III core course in mathematics<br>Area III core course in a second field<br>Area III core course in any field | 3-5<br>4<br>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, economics, foreign language, geography, history, humanities, literature, music, philosophy, political science, psychology, social work, sociology, teacher education, and theatre arts. | 9 |
| Major | See the requirements for your major in Chapter 13, "Academic Departments and Courses." | |

**Table 11.8**
**Minimum Credit Requirements for the Bachelor of Science Degree (B.S.)**

| Content | Notes | Credits |
|---|---|---|
| ENGL 101-102 | English Composition<br>See "How to Meet the English Composition Requirement" (above). | 6 |
| Area I | Area I core course in one field<br>Area I core course in a second field<br>Area I core course in a third field<br>Area I core course in any field | 3<br>3<br>3<br>3 |
| Area II | Area II core course in one field<br>Area II core course in a second field<br>Area II core course in a third field<br>Area II core course in any field | 3<br>3<br>3<br>3 |
| Area III | Area III core course in mathematics<br>Area III core course in a second field<br>Area III core course in any field | 3-5<br>4<br>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, economics, engineering, geography, geology, history, mathematics, physical science, physics, political science, psychology, social work, sociology, and teacher education. | 9 |
| Major | See the requirements for your major in Chapter 13, "Academic Departments and Courses." | |

**Table 11.9**
**Minimum Credit Requirements for the Bachelor of Business Administration Degree (B.B.A.)**

| Content | Notes | Credits |
|---|---|---|
| ENGL 101-102 | English Composition<br>See "How to Meet the English Composition Requirement" (above). | 6 |
| Area I | Area I core courses | 6 |
| Area II | ECON 201 Principles of Macroeconomics<br>ECON 202 Principles of Microeconomics<br>Area II core course in a second field<br>Area II core course in any field except economics | 3<br>3<br>3<br>3 |
| Area III | Area III core course (MATH 143 or MATH 147)<br>Area III core course (MATH 160 or MATH 170,171)<br>Area III core course in a lab science | 3-5<br>4-5<br>4 |
| Statistics | BUSSTAT 207 Statistical Techniques for Decision Making I<br>BUSSTAT 208 Statistical Techniques for Decision Making II | 3<br>3 |
| Nonbusiness Electives | Must include courses in at least two of the three following disciplines:<br>**Arts and Humanities** (art, foreign language, humanities, literature, music, philosophy, theatre arts)<br>**Social Sciences** (anthropology, communication, geography, history, political science, psychology, social work, sociology, teacher education); one upper-division economics course may be counted in this total<br>**Natural Sciences and Mathematics** (biological sciences, physical sciences, mathematics)<br>No more than 3 credits may be in fitness activity courses. Telecourses are excluded. | 20-23 |
| Major | See the requirements for your major in Chapter 13, "Academic Departments and Courses." At least 32 of the business credits must be taken at Boise State University. | |

## Table 11.10
## Minimum Credit Requirements for the Bachelor of Fine Arts Degree (B.F.A.)

| Content | Notes | Credits |
|---|---|---|
| ENGL 101-102 | English Composition<br>See "How to Meet the English Composition Requirement" (above). | 6 |
| Area I | Area I core course in literature<br>Area I core course chosen from HUM 207, 208 Introduction to Humanities; MUS 133 Introduction to Music; PHIL 101 Introduction to Philosophy; PHIL 201 Ethics; THEA 107 Introduction to Theatre; or a 201-202 foreign language. | 6<br>3 |
| Area II | Area II core course in history<br>Area II core course in a second field<br>Area II core course in any field | 3<br>3<br>3 |
| Area III | Area III core course in mathematics<br>Area III core courses | 3-5<br>4 |
| Major | See the requirements for your major in Chapter 13, "Academic Departments 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 11.11
## Minimum Credit Requirements for the Bachelor of Music Degree (B.M.)

| Content | Notes | Credits |
|---|---|---|
| ENGL 101-102 | English Composition<br>See "How to Meet the English Composition Requirement" (above). | 3 or 6 |
| Area I | Area I core course in literature<br>Area I core course in a second field<br>Area I core course in any field | 3<br>3<br>3 |
| Area II | Area II core course in history<br>Area II core course in a second field<br>Area II core course in any field | 3<br>3<br>3 |
| Area III | Area III core course in mathematics<br>**Option A:** One semester of a foreign language<br>**Option B:** Area III core courses | 3-5<br>4 |
| Major | See the requirement for your major in Chapter 13, "Academic Departments 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 11.12
## Minimum Credit Requirements for the Bachelor of Science Civil Engineering Degree (B.S.C.E.) Bachelor of Science Construction Management Degree (B.S.C.M.) Bachelor of Science Electrical Engineering Degree (B.S.E.E.) Bachelor of Science Mechanical Engineering Degree (B.S.M.E.)

| Content | Notes | Credits |
|---|---|---|
| ENGL 101-102 | English Composition<br>See "How to Meet the English Composition Requirement" (above). | 6 |
| Area I | Area I core course in one field<br>Area I core course in a second field | 3<br>3 |
| Area II | Area II core course in one field<br>Area II core course in a second field | 3<br>3 |
| Area III | Area III core course in mathematics<br>Area III core course in second field<br>Area III core course in any field | 3-5<br>4<br>4 |

*— continued —*

***Minimum Credit Requirements—BSCE, BSCM, BSEE, BSME (continued)***

| | | |
|---|---|---|
| Area I-II Depth Elective | Area I core courses in a third field **AND** an elective depth course** chosen from anthropology, communication, economics, geography, history, political science, psychology, or sociology, which either has an Area II core course as a prerequisite or is upper-division **OR**<br>Area II core course in a third field **AND** an elective depth course** chosen from art, literature, humanities, music, philosophy, theatre arts, or a foreign language other than English or the student's native language, which either has an Area I core course as a prerequisite or is upper-division. | 6 |
| 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, economics, engineering, geography, geology, history, mathematics, physical science, physics, political science, psychology, social work, sociology, and teacher education. | 9 |
| Major | See the requirements for your major in Chapter 13, "Academic Departments and Courses." | |

## Table 11.13
## Minimum Credit Requirements for the Bachelor of Applied Science Degree (B.A.S.)

| Content | Notes | Credits |
|---|---|---|
| ENGL 101-102 | English Composition<br>See "How to Meet the English Composition Requirement" (above). | 6 |
| Area I | Area I core course in a first field<br>Area I core course in a second field<br>Area I core course in a third field<br>Area I core course in any field | 3<br>3<br>3<br>3 |
| Area II | Area II core course in a first field<br>Area II core course in a second field<br>Area II core course in a third field<br>Area II core course in any field | 3<br>3<br>3<br>3 |
| Area III | Area III core course in mathematics<br>Area III core course in a second field<br>Area III core course in any field | 3-5<br>4<br>4 |
| Area II **and** III Electives | Upper-division courses in **both** of the following disciplines: **social sciences** (anthropology, communication, economics, geography, history, political science, psychology, social work, sociology, teacher education) and either **natural sciences or mathematics** (biological sciences, chemistry, engineering, mathematics, physical science, physics). | 10 |
| Electives | Upper-division courses to total 24 credits<br>(Up to 6 credits may come from BASCI 493, BASCI 496, BASCI 494, or BASCI 498) | 24 |
| Technical Education | 40 credits in technical education courses | 40 |
| Electives | Electives to total 128 credits<br>Up to three credits may come from KIN-ACT courses) | 11-13 |
| To be admitted to the program leading to a 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 of Postsecondary Education. Exceptions to these policies must be reviewed by the Dean of the Larry G. Selland College of Applied Technology. | | |

## Table 11.14
## Minimum Credit Requirements for the Associate of Arts Degree

| Content | Notes | Credits |
|---|---|---|
| ENGL 101-102 | English Composition<br>See "How to Meet the English Composition Requirement" (above). | 6 |
| Area I | Area I core course in literature<br>Area I core course in a second field<br>Area I core course in a third field<br>Area I core course in any field | 3<br>3<br>3<br>3 |
| Area II | Area II core course in history<br>Area II core course in communication<br>Area II core course in a third field<br>Area II core course in any field | 3<br>3<br>3<br>3 |
| Area III | Area III core course in mathematics<br>Area III core course in a second field<br>Area III core course in any field | 3-5<br>4<br>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, economics, foreign language, geography, history, humanities, literature, music, philosophy, political science, psychology, social work, sociology, teacher education, and theatre arts. | 9 |
| Electives | Electives to total 64 credits | 12-14 |

Teacher Education (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.

## Table 11.15
## Minimum Credit Requirements for the Associate of Science* Degree

| Content | Notes | Credits |
|---|---|---|
| ENGL 101-102 | English Composition<br>See "How to Meet the English Composition Requirement" (above). | 6 |
| Area I | Area I core course in one field<br>Area I core course in a second field<br>Area I core course in a third field<br>Area I core course in any field | 3<br>3<br>3<br>3 |
| Area II | Area II core course in communication<br>Area II core course in a second field<br>Area II core course in a third field<br>Area II core course in any field | 3<br>3<br>3<br>3 |
| Area III | Area III core course in mathematics<br>Area III core course in a second field<br>Area III core course in any field | 3-5<br>4<br>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, economics, engineering, geography, geology, history, mathematics, physical science, physics, political science,psychology, social work, sociology, and teacher education. | 9 |
| Electives | Electives to total 64 credits | 12-14 |

TEACH-ED and 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 administration, nursing, health information technology, respiratory therapy, and radiologic sciences do not meet the university core requirements and do not comply with the Idaho Statewide Articulation Policy.

## Table 11.16
## Minimum Credit Requirements for the Associate of Arts Degree (A.A., Social Science)

| Content | Notes | Credits |
|---|---|---|
| ENGL 101-102 | English Composition<br>See "How to Meet the English Composition Requirement" (above). | 6 |
| Area I | Area I core course in literature<br>Area I core course in a second field<br>Area I core course in a third field<br>Area I core course in any field | 3<br>3<br>3<br>3 |
| Area II | Area II core course in history<br>Area II core course in a second field<br>Area II core course in a third field<br>Area II core course in any field | 3<br>3<br>3<br>3 |
| Area III | Area III core course in mathematics<br>Area III core courses<br>12 credits are recommended | 3-5<br>4 |
| Major Requirements | Social Science<br>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 to 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 11.17
## 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 6<br>Area I or II core course in any field 3<br>Area III core course in mathematics 3-5<br>Area I, II, or III core course in any field 3-4<br>*A minimum grade point average of 2.0 is required in all General Education course work.* | 16 |
| Major | See Chapter 14, "Applied Technology Programs." | |

Your last 15 credits must be taken at BSU 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.

## 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 11.7 through 11.19.

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 BSU," 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 13, "Academic Departments and Courses," or Chapter 14, "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.

Figure 11.2., 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 40 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 40 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 40 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<br>These courses do not have to be selected from the approved core list, but are to be chosen from anthropology, biology, chemistry, communication, economics, engineering, geology, geography, history, mathematics, physical science, physics, political science, psychology, social work, sociology, and teacher education. | 9 |
| SOC 201 Theories of Society | 3 |
| SOC 210 Computer Applications in Social Science | 4 |
| SOCSCI 498 Senior Seminar | 3 |
| – 493 Internship or – 496 Independent Study | 3 |
| Methods course: COMM 302, HIST 210, POLS 398, PSYC 321, SOC 311, SOC 412, or WOMSTD 302 | 3 |
| Statistics course: PSYC 295, POLS 298, or SOC 310 | 3 |
| *Upper-division first field | 12 |
| *Upper-division second field | 12 |
| *Select from the following for first and second fields of study: anthropology, communication, criminal justice administration, economics, history, political science, psychology, sociology, and women's studies. Only three (3) credit hours in each field may be workshops, special topics, independent study courses, or internships. | |
| Upper-division electives to total 40 credits | 3-10 |
| Electives to total 128 credits | 31-40 |
| Total | 128 |

The English Composition Requirements are described in detail on pages 38.

Area I core requirements are explained on page 39-40.

Area II core requirements are explained on page 39-40. The degree in our example requires a specific Area II course, which fulfills the Area II and major requirement.

Area III mathematics requirement is explained on page 38. Area III core requirements are explained on page 39-40.

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.

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.

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 45.

**Figure 11.2. A Typical Degree-Requirements Table**

**Table 11.18**
**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 Courses | You must have a minimum grade point average of 2.0 in all General Education (Technical Support) course work. | |
| Major | See Chapter 14, "Applied Technology Programs." | |

**Table 11.19**
**Technical Certificate (T.C.)**

| Content | Notes | Credits |
|---|---|---|
| Technical Course Work | A credential awarded for completion of 30 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. | 30 |
| Technical Support Courses | You must have a minimum grade point average of 2.0 in all General Education (Technical Support) course work. | |
| Major | See Chapter 14, "Applied Technology Programs." | |

# Double Majors

You may earn a single baccalaureate degree with more than one major if you satisfy all requirements for each major (as specified by the departments involved and as approved by the dean of the college offering 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.

# Additional Baccalaureate Degrees

If you have earned a baccalaureate degree, either at BSU 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 BSU. 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 BSU in order to earn the additional degree. This list must also be approved by the dean of the college overseeing your department. 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 39), 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 BSU 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.

# Technical Certificates, Other Certificates, and Minors

Chapter 12, "Summary of Programs and Courses," lists the certificates and minors available at BSU, along with the degrees offered by BSU. 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 teaching emphases in secondary-education programs. Requirements for all certificates and minors are listed in Chapter 13, "Academic Departments and Courses" and Chapter 14, "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.

# 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 your last 30 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 11.9, 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 four credits of independent study in a semester, though you may take no more than six credits in a given academic year. You may apply no more than nine credits of independent study toward your degree. If you are a freshman or sophomore in the Honors Program, you may take up to four credits of independent study in a semester, up to a total of six 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. 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 *Directory of Classes*, the service-learning credit 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 three service-learning credits in a semester. You may apply no more than nine service-learning credits toward your degree. For more information, contact the Service-Learning Program office at 208 426-1004.

## Telecourses

Telecourses are courses offered for credit through public television. They are offered by several academic departments and carry the designation 299. You may count a telecourse only as a general elective, and you may count toward graduation no more than 12 credits earned in telecourses. Other restrictions apply to telecourses if you are seeking a bachelor of business administration degree; for further information, see Table 11.9, above, in *Credit Requirements for Various Degrees*.

## 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 in the Registrar's Office, Administration Building, Room 102.

# Graduation Honors

Graduation honors are awarded to students receiving their first baccalaureate degree, according to the scale shown in Table 11.20 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, BSU uses the student's grade point average (GPA) at the end of either spring or summer semester for the December commencement ceremony and fall semester for the May commencement ceremony.

**Table 11.20**
**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.

# 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 BSU and provided that the catalog is no older than six academic years at the time of your graduation.

# Transferring Credits to BSU

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 BSU. The Registrar's Office evaluates your transcript to determine if the courses you have taken elsewhere are equivalent to courses offered at BSU. 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 BSU. 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 University 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 BSU. 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 BSU, 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 BSU if **all** of the following conditions apply:

- You have been granted an associate of arts degree or an associate of science degree from the College of Southern Idaho, North Idaho College, or Treasure Valley Community College, or you have been granted an associate of arts and science degree from Ricks College.
- The degree was granted no earlier than spring semester of 1989.
- Your transcript shows that you have met the general education core requirements outlined in the *Idaho Statewide Articulation Policy*.

Likewise, you are exempt from the BSU core requirements if all of the following conditions apply:

- You are transferring from the University of Idaho, Idaho State University, or Lewis-Clark State College.
- Your transcript shows that you have met all of the core requirements at the University of Idaho, Idaho State University, or Lewis-Clark State College.

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 BSU 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 BSU, 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.

# Credit for Prior Learning

Many colleges and universities, including Boise State University, 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 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 of the following types:

- 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, NLN Mobility Exam, etc.) are transcribed 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* provides a detailed list of all the forms of prior learning for which you may receive credit. More information about prior learning credit is available at the Testing Office, Education Building, Room 601, 208 426-1601 or through the Registrar's Office, Administration Building, Room 102, 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.
- **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 BSU for acceptable AP exam scores.

| AP Exam Title | Score | BSU Equivalent Course(s) & Number of Credits | |
|---|---|---|---|
| United States History | 3 | HIST 111-112 U.S. History (6) | Area II |
| Art: History of | 3 | ART 101-102 Surv of Western Art I (6) | Area I |
| Biology | 3 | BIOL 100 Concepts of Biology (4) | Area III |
| Biology | 4 | BIOL 191-192 General Biology I & II (8) | Area III |
| Chemistry | 3 | CHEM 111-112 College Chemistry (9)* | Area III |
| Computer Science A | 4 | COMPSCI 125 Intro to Computer Science I (5) | |
| Economics: Macro | 4 | ECON 201 Prin Macroeconomics (3) | Area II |
| Economics: Micro | 4 | ECON 202 Prin Microeconomics (3) | Area II |
| English | 3 | ENGL 101 English Composition (3) | |
| English | 5 | ENGL 101-102 English Composition (6) | |
| European History | 4 | HIST 102 Western Civilization (3) | Area II |
| French Lang or Lit | 3 | FREN 101-102 Elem French (8) | Area I |
| French Lang or Lit | 4 | FREN 101-201 Inter French (12) | Area I |
| French Lang or Lit | 5 | FREN 101-202 Inter French (16) | Area I |
| German Language | 3 | GERM 101-102 Elem German (8) | Area I |
| German Language | 4 | GERM 101-201 Elem German (12) | Area I |
| German Language | 5 | GERM 101-202 Elem German (16) | Area I |
| Govt & Politics: U.S. | 3 | POLS 101 American Nat'l Govt (3) | Area II |
| Latin: Literature | 3 | LATIN 212 Adv Class Latin Lang & Lit (4) | |
| Mathematics: Calculus AB | 3 | MATH 170-171 Calculus I and Lab (5) | Area III |
| Mathematics: Calculus BC | 3 | MATH 170-171, 175 Calculus I, II (9) | Area III |
| Physics B | 3 | PHYS 111 General Physics (4) | Area III |
| Psychology | 3 | PSYC 101 General Psychology (3) | Area II |
| Spanish: Lang or Lit | 3 | SPAN 101-102 Elem Spanish (8) | Area I |
| Spanish: Lang or Lit | 4 | SPAN 101-201 Inter Spanish (12) | Area I |
| Spanish: Lang or Lit | 5 | SPAN 101-202 Inter Spanish (16) | Area I |

*It is recommended that students intending to enroll in Quantitative Analysis take the second semester of CHEM 111L because the laboratory experience varies depending on the resources available at their particular high school.

- **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.
- **National League of Nursing II Mobility Tests** facilitate advanced placement for registered nurses working toward a bachelor of science degree in nursing.

## 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 a copy of your DD 214, DD 220, or similar official documents. If you have completed two or more years of active military service, you may also request that the BSU 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 are planning to and 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 Registrars Office, Administration Building, Room 102, 208 426-4249 or the Division of Extended Studies, 1015 Grant Avenue, 208 426-1709. 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 received permission from the appropriate academic department to register for a challenge exam, you must complete the form *Credit for Prior Learning-Course Challenge-Credit by Examination* and submit it to the Registrars Office, 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 or B or C). Grades of D or F will not be transcripted 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 SPAN 102 Elementary Spanish, you must first have completed SPAN 101 Elementary Spanish. If a course has a prerequisite, the prerequisite is listed in Chapter 13, "Academic Departments and Courses" or in the *BSU Directory 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-Credit by Examination* and submit it to the Registrar's Office, Administration Building, Room 102. A $20 per course fee will be charged to apply for credit for prerequisites not taken and 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 transcripted. Grades will be transcripted 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.

## How to Apply for Graduation

To apply for graduation, request an *Application for Graduation* from the Registrar's Office, Administration Building, Room 102. Complete it and return it to the Registrar's Office. After receiving your application, the Registrar's Office evaluates your transcripts and other university records to verify that you meet all the requirements for graduation. You should apply for graduation the semester before you intend to graduate but 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:** The *Application for Graduation* must be accompanied by a $20 diploma fee. All graduating students must pay this fee, regardless of whether they intend to participate in commencement and regardless of whether they wish to receive a diploma.

## ? Questions About These Policies?

If you have questions about these policies, contact the Registrar's Office, Administration Building, Room 102, 208 426-4249

# Chapter 12—Summary of Programs and Courses

**Table 12.1 Degrees, Majors, Minors, Certificates, and Transfer Programs Offered at BSU**

| Program | Graduate Degree | Undergraduate Degree | Certificate, Minor or Transfer Program | Department | Page |
|---|---|---|---|---|---|
| A+ Computer Hardware Service | | T.C. | | Applied Technology | 213 |
| A+ Computer Support Technician | | P.V.C. | | Applied Technology | 205 |
| Accountancy, Taxation | M.S.** | | | Accountancy | * |
| Accountancy | M.S.** | B.B.A., B.A., B.S. | Minor | Accountancy | *-56 |
| Accountancy, Internal Audit Option | | B.B.A., B.A., B.S. | Minor | Accountancy | 56-57 |
| Accounting Technology | | A.A.S. | | Applied Technology | 209 |
| Addiction Studies | | | Minor | Health Studies | 115 |
| Administrative Office Technology | | A.A.S. | | Applied Technology | 209 |
| Anthropology | | B.A. | Minor | Anthropology | 58 |
| Anthropology, Social Science, Secondary Education | | B.A. | | Anthropology | 58-59 |
| Applied Mathematics | | | Minor | Mathematics and Computer Science | 142 |
| Apprenticeship | | A.A.S. | | Applied Technology | 205 |
| Art Education | M.A. | B.A., B.F.A. | | Art | *-62 |
| Athletic Administration<br>**granted by Idaho State University | M.P.E.** | | | Kinesiology | * |
| Athletic Training | | B.S. | | Kinesiology | 130 |
| Auto Body | | T.C. | | Applied Technology | 205-206 |
| Automated Industrial Technician | | A.T.C., A.A.S. | | Applied Technology | 206 |
| Automotive Technology | | T.C., A.T.C., A.A.S. | | Applied Technology | 207 |
| B.A.S., Applied Technology | | B.A.S | | Larry G. Selland College of Applied Technology | 68 |
| Biology | M.A., M.S. | | | Biology | * |
| Biology<br>Botany Emphasis<br>Ecology Emphasis<br>Environmental Biology Emphasis<br>Human Biology Emphasis<br>Microbiology Emphasis<br>Molecular and Cell Biology Emphasis<br>Zoology Emphasis | | B.S. | Minor | Biology | 69-71 |
| Biology, Secondary Education | | B.S. | | Biology | 71 |
| Broadcast Technology | | A.A.S. | | Applied Technology | 208 |
| Business | | | Minor | College of Business and Economics | 74 |
| Business Administration | M.B.A. | | | College of Business and Economics | * |
| Business Economics | | B.B.A. | | Economics | 95 |
| Business Technology | | T.C. | | Applied Technology | 208-209 |
| Canadian Studies | | | Minor | College of Social Sciences and Public Affairs | 74 |
| Chemistry<br>Biochemistry Emphasis<br>General Emphasis<br>Professional Emphasis | | B.S. | Minor | Chemistry | 75 |
| Chemistry, Secondary Education | | B.S. | | Chemistry | 75 |
| Child Care and Development | | T.C., A.A.S. | | Applied Technology | 211 |
| Civil Engineering | M.S.E. | B.S.C.E.. | Minor | Civil Engineering | 77 |
| Communication/English<br>Humanities/Rhetoric Emphasis<br>Journalism Emphasis | | B.A. | | Communication | 80-81 |
| Communication | M.A. | B.A. | Minor | Communication | *-78-79 |
| Communication, Secondary Education | | B.A. | | Communication | 79-80 |
| Communication, Training, and Development | | B.A. | | Communication | 80 |
| Computer Aided Manufacturing Technology | | A.A.S. | | Applied Technology | 212 |
| Computer Engineering | M.S.E. | | | Electrical Engineering | * |
| Computer Information Systems | | B.B.A., B.A., B.S. | Minor | Computer Information Systems and Production Management | 83-84 |
| Computer Network Support Technology | | A.A.S., A.T.C., T.C., P.V.C. | | Applied Technology | 213 |
| Computer Science | M.S. | B.S. | Minor | Computer Science | *-87-88 |

| Program | Graduate Degree | Undergraduate Degree | Certificate, Minor or Transfer Program | Department | Page |
|---|---|---|---|---|---|
| Computer Service Technology | | A.T.C., A.A.S. | | Applied Technology | 214 |
| Construction Management | | B.S.C.M. | Minor | Construction Management | 89 |
| Creative Writing | M.F.A. | | | English | * |
| Criminal Justice Administration<br>Corrections/Counseling Emphasis<br>Courts/Law Emphasis<br>Law Enforcement Emphasis<br>Research Methods Emphasis | M.A. | A.S., B.A., B.S. | | Criminal Justice Administration | *-91-92 |
| Culinary Arts | | T.C., A.A.S. | | Applied Technology | 215-216 |
| Curriculum and Instruction | M.A., Ed.D. | | | College of Education | * |
| Dental Assisting | | T.C. | | Applied Technology | 217 |
| Dispute Resolution | | | Certificate | College of Social Sciences and Public Affairs | 93 |
| Drafting Technology | | T.C., A.T.C., A.A.S. | | Applied Technology | 217-218 |
| Early Childhood | M.A. | | | College of Education | * |
| Earth Science Education | M.S. | B.S. | | Geosciences | *-107 |
| Economics<br>International Economics Emphasis<br>Social Science Emphasis<br>Quantitative Emphasis | | B.A. | Minor | Economics | 94-95 |
| Economics, Social Science, Secondary Education | | B.A. | | Economics | 95 |
| Educational Technology | M.S. | | | College of Education | * |
| Electrical Engineering | M.S.E. | B.S.E.E. | | Electrical Engineering | *-97 |
| Electrical Lineworker | | T.C. | | Applied Technology | 218 |
| Electronics Technology | | A.T.C., A.A.S. | | Applied Technology | 219 |
| Elementary Education | | B.A. | | Teacher Education | 188-189 |
| Elementary Education- Bilingual/ESL | | B.A. | | Teacher Education | 189 |
| English, Liberal Arts Emphasis | M.A. | B.A. | Minor | English | *-100 |
| English, General Literature Emphasis | | B.A. | | English | 100-101 |
| English, Linguistics Emphasis | | B.A. | | English | 101 |
| English, Technical Communication Emphasis | M.A. | B.A. | Certificate | English | *-101-102 |
| English, Writing Emphasis | | B.A. | | English | 101-102 |
| English Teaching | M.A. | B.A. | | English | *-100 |
| Environmental Control Technician | | A.T.C., A.A.S. | | Applied Technology | 220 |
| Environmental Health | | B.S. | | Health Studies | 110-111 |
| Environmental Studies | | | Minor | Biology | 105-106 |
| Exercise and Sports Studies | M.S. | | | Kinesiology | * |
| Exercise Science, Biomechanics Emphasis | | B.S. | | Kinesiology | 128 |
| Exercise Science, Exercise Physiology Emphasis | | B.S. | | Kinesiology | 128 |
| Exercise Science, Fitness Evaluation and Programming Emphasis | | B.S. | | Kinesiology | 129 |
| Farm Business Management | | P.V.C. | | Applied Technology | 221 |
| Finance | | B.B.A., B.A., B.S. | Minor | Marketing and Finance | 138-139 |
| Fire Service Technology | | A.A.S. | | Applied Technology | 221 |
| French | | B.A. | Minor | Modern Languages | 148 |
| French, Secondary Education | | B.A. | | Modern Languages | 148-149 |
| General Business Management | | B.B.A., B.A., B.S. | | Management | 136 |
| Geology | M.S. | B.S. | | Geosciences | *-106-107 |
| Geophysics | M.S., Ph.D. | B.S. | | Geosciences | *-107-108 |
| German | | B.A. | Minor | Modern Languages | 149 |
| German, Secondary Education | | B.A. | | Modern Languages | 149 |
| Gerontology | | | Minor | Interdisciplinary Studies in Aging | 57 |
| Graphic Design | | B.A., B.F.A. | | Art | 63 |
| Health Information Technology | | A.S. | | Health Studies | 112 |
| Health Information Management | | B.S. | | Health Studies | 112 |
| Health Promotion | | B.S. | | Kinesiology | 129 |

| Program | Graduate Degree | Certificate, Undergraduate Degree | Minor or Transfer Program | Department | Page |
|---|---|---|---|---|---|
| Health Science | M.H.S. | | | College of Health Sciences | * |
| Health Science Studies<br>General Health Science Emphasis<br>Science Emphasis | | B.S. | | Health Studies | 113-114 |
| Heavy Duty Mechanics- Diesel | | T.C. | | Applied Technology | 222 |
| History | M.A. | B.A. | | History | *-119-120 |
| History, Secondary Education | | B.A. | | History | 120 |
| History of Art and Visual Culture | | B.A. | Minor | Art | 63-64 |
| Horticulture Technology | | T.C., A.A.S. | | Applied Technology | 223 |
| Idaho Professional Driver Training Program | | P.V.C. | | Applied Technology | 224 |
| Illustration | | B.F.A. | | Art | 64 |
| Industrial Maintenance Technology | | T.C. | | Applied Technology | 224 |
| Instructional & Performance Technology | M.S. | | | College of Engineering | * |
| Interdisciplinary Studies | M.A., M.S. | B.A., B.S. | | College of Arts and Sciences | *-125 |
| International Business | | B.B.A., B.A., B.S. | Minor | International Business and Consortium and Programs | 125-126 |
| Japanese Studies | | | Minor | Modern Language | 151 |
| K-12 Physical Education | | B.S. | | Kinesiology | 127-128 |
| Latin and Language Literature | | | Minor | History | 120-121 |
| Legal Assistant | | | Minor | College of Social Sciences and Public Affairs | 134-135 |
| Legal Office Technology | | A.A.S. | | Applied Technology | 209-210 |
| Machine Tool Technology | | TC., A.T.C., A.A.S. | | Applied Technology | 225 |
| Management<br>Entrepreneurial Option<br>Human Resource Management Option | | B.B.A., B.A., B.S. | <br>Minor<br>Minor | Management | 136-137 |
| Management Information Systems | M.S. | | | Computer Information Systems and Production Management | * |
| Marketing | | B.B.A., B.A., B.S. | Minor | Marketing and Finance | 139 |
| Marketing/Management Technology | | A.A.S. | | Applied Technology | 226 |
| Mass Communication/Journalism | | B.A. | | Communication | 79 |
| Mathematics | | B.A., B.S. | Minor | Mathematics | 141-142 |
| Mathematics, Secondary Education | M.S. | B.A., B.S. | | Mathematics | *-142-143 |
| Mechanical Engineering | M.S.E. | B.S.M.E. | | Mechanical Engineering | *-144-145 |
| Mechanical Welding Technician | | A.T.C., A.A.S. | | Applied Technology | 227 |
| Medical Technology | | B.S. | | Health Studies | 116 |
| Mexican-American Studies | | | Minor | Sociology | 185 |
| Multi-Ethnic Studies | | B.A. | Minor | Sociology | 184 |
| Music | | B.A. | Minor | Music | 156-157 |
| Music/Business | | B.A. | | Music | 157 |
| Music, Composition | | B.M. | | Music | 155-156 |
| Music Education | M.M. | B.M. | | Music | *-156 |
| Music, Pedagogy | M.M. | | | Music | * |
| Music, Performance | M.M. | B.M. | | Music | *-155 |
| Native American Studies | | | Minor | Anthropology | 59 |
| Networking Technology | | T.C. | | Applied Technology | 213 |
| Networking and Telecommunications | | B.B.A., B.A., B.S. | | Computer Information Systems and Production Management | 84 |
| Nursing | | A.S., B.S. | | Nursing | 163-165 |
| Office Occupations | | P.V.C. | | Applied Technology | 227-228 |
| Philosophy | | B.A. | Minor | Philosophy | 166 |
| Physics | | B.S. | Minor | Physics | 167 |
| Physics, Secondary Education | | B.S. | | Physics | 168 |
| Political Science<br>American Government<br>International Relations<br>Public Law and Political Philosophy<br>Public Administration | | B.A., B.S. | Minor | Political Science | 169-170 |

| Program | Graduate Degree | Undergraduate Degree | Certificate, Minor or Transfer Program | Department | Page |
|---|---|---|---|---|---|
| Political Science, Social Science, Secondary Education | | B.A. | | Political Science | 170 |
| Practical Nursing | | A.T.C. | | Nursing | 166 |
| Pre-Architecture | | | Transfer | Art | 64-65 |
| Pre-Chiropractic | | | Transfer | Health Studies | 116 |
| Pre-Dental Hygiene | | | Transfer | Health Studies | 117 |
| Pre-Dental Studies<br>Biology Option<br>Chemistry Option | | B.S. | | Health Studies | 115-116 |
| Pre-Dietetics | | | Transfer | Health Studies | 116 |
| Pre-Engineering | | | Transfer | Engineering | 77 |
| Pre-Forestry and Pre-Wildlife Management | | | Transfer | Biology | 72 |
| Pre-Medical Studies<br>Biology Option<br>Chemistry Option | | B.S. | | Health Studies | 115 |
| Pre-Occupational Therapy | | | Transfer | Health Studies | 117 |
| Pre-Optometry | | | Transfer | Health Studies | 118 |
| Pre-Pharmacy | | | Transfer | Health Studies | 118 |
| Pre-Physical Therapy | | | Transfer | Health Studies | 118 |
| Pre-Physician Assistant | | | Transfer | Health Studies | 119 |
| Pre-Speech-Language Pathology | | | Transfer | Health Studies | 119 |
| Pre-Veterinary Medicine Studies | | B.S. | | Health Studies | 116 |
| Production and Operations Management | | B.B.A., B.A., B.S. | | Computer Information Systems and Production Management | 85 |
| Psychology | | B.A., B.S. | Minor | Psychology | 172-173 |
| Public Administration | M.P.A. | | | College of Social Sciences and Public Affairs | * |
| Quality Management | | | Minor | Computer Information Systems and Production Management | 85 |
| Radiologic Sciences | | A.S. | | Radiologic Sciences | 175 |
| Radiologic Sciences<br>Computerized Tomography Emphasis<br>Diagnostic Medical Sonography Emphasis<br>General Studies Emphasis<br>Magnetic Resonance Imaging Emphasis | | B.S. | | Radiologic Sciences | 175-176 |
| Raptor Biology | M.S. | | | Biology | * |
| Reading | M.A. | | | College of Education | * |
| Recreational and Small Engine | | T.C., A.T.C., A.A.S. | | Applied Technology | 228 |
| Repair Technology | | | | | |
| Refrigeration, Heating and Air Conditioning | | T.C., A.T.C., A.A.S. | | Applied Technology | 229 |
| Respiratory Therapy | | A.S., B.S. | | Respiratory Therapy | 178-179 |
| Respiratory Therapy Technician | | A.A.S. | | Applied Technology | 230 |
| School Counseling | M.A. | | | Counseling | * |
| Semiconductor Manufacturing Technology | | A.A.S. | | Applied Technology | 231 |
| Social Science | | A.A., B.A., B.S. | | Sociology | 181-182 |
| Social Work | M.S.W. | B.A. | | Social Work | *-180 |
| Sociology | | B.A., B.S. | Minor | Sociology | 182 |
| Sociology, Interdisciplinary Social Science, Secondary Education | | B.A. | | Sociology | 183 |
| Sociology, Social Science, Secondary Education | | B.A. | | Sociology | 183 |
| Spanish | | B.A. | Minor | Modern Languages | 150 |
| Spanish, Secondary Education | | B.A. | | Modern Languages | 150 |
| Special Education | M.S. | | | College of Education | * |
| Surgical Technology | | T.C. | | Applied Technology | 231 |
| Theatre Arts<br>Dance Option<br>Design Option<br>Directing Option<br>Dramatic Writing Option<br>Performance Option | | B.A. | Minor | Theatre Arts | 201 |

| Program | Graduate Degree | Undergraduate Degree | Certificate, Minor or Transfer Program | Department | Page |
|---|---|---|---|---|---|
| Theatre Arts, Secondary Education | | B.A. | | Theatre Arts | 201-202 |
| Visual Art<br>Art Metals Emphasis<br>Ceramics Emphasis<br>Drawing Emphasis<br>Interdisciplinary Art Studio Emphasis<br>Painting Emphasis<br>Photography Emphasis<br>Printmaking Emphasis<br>Sculpture Emphasis | | B.A., B.F.A. | Minor | Art | 60-62 |
| Visual Arts | M.F.A.** | | | Art | * |
| Welding and Metals Fabrication | | T.C. | | Applied Technology | 232 |
| Women's Studies | | | Minor | Sociology or Psychology | 203 |

*See the *BSU Graduate Catalog*.
**NOTICE: This new graduate program has been approved for implementation by the Idaho State Board of Education but has not yet received full funding. Therefore, some or all of the courses required for the degree may not be available during this academic year. Because the funding status of this program may have changed since the publication of the catalog, you are encouraged to inquire about course offerings by calling the chair of the department or the Dean of the Graduate College.

## BSU's Course Numbering System

Each course offered at Boise State University 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 through 099 | noncredit courses that do not count toward degree requirements |
| 100 through 199 | freshman-level courses (lower-division courses) |
| 200 through 299 | sophomore-level courses (lower-division courses) |
| 300 through 499 | junior- and senior-level courses (upper-division courses) |
| 500 and above | 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.

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 |

Classes in Applied Technology Programs are either lecture, lab, or lecture/lab courses, as described below:

- Lecture: one semester credit for 15 clock hours.
- Lecture/Lab: one semester credit for 30 clock hours of lab time.

| | |
|---|---|
| (2-0-2) | a typical two-hour lecture class for two credits |
| (2-4-3) | a two-hour lecture and four hours of laboratory for three credits |
| (0-4-0) | a four hour lecture/lab with no credits awarded |

## Course Abbreviations

Abbreviations are added to course numbers to indicate the academic session in which the course is offered, as 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 none of these abbreviations appear in the course description, then the course is offered during the fall semester, spring semester, and summer sessions (though there may be some exceptions).

Other authorized abbreviations are PREREQ, COREQ, PERM/INST, and PERM/CHAIR. Generally, a *prerequisite* is a condition that must be met before a student may enroll in a particular course. In most instances a prerequisite is a course that the student must successfully complete before enrolling in another, related course. For instance, before enrolling in ENGL 402 Advanced Technical Communication, a student must have successfully completed ENGL 302 Technical Rhetoric. In contrast, a *corequisite* is a course that must be taken concurrently with another course; the most common type of corequisite is a laboratory class that must be taken at the same time as a related science course.

PERM/INST indicates that students must obtain the instructor's permission before enrolling in the class, while PERM/CHAIR indicates that students must obtain the permission of the department chair.

## 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 Studies Abroad (see Chapter 10, "Continuing Education") or that conduct approved international studies programs.

## Figure 12.1. A Typical Course Description

Figure 12.1., below, shows a typical course description, with definitions for each part of the description.

Course Prefix: Physics Department (PHYS) offered at the lower-division level (211).

A 4- hour lecture course, with 1 hour of lab time, carrying 4 credit hours. Offered fall semester, spring semester or both. Meets Area III university core requirements.

Title of the course

**PHYS 211 MECHANICS, WAVES, AND HEAT (4-1-4)(F/S)(Area III)**

Kinematics, dynamics of particles, statics, momentum, rotational motion, gravitation, introductory wave motion, heat, and thermodynamics.

Content of the course.

PREREQ: MATH 170, 171. COREQ: MATH 175, PHYS 211L.

Before enrolling, students must have completed MATH 170, 171 and must concurrently enroll in MATH 175 and PHYS 211L.

**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.

**299 Telecourse (1 to 3 credits).** Telecourses provide an opportunity for students to earn credits at home or at work through a mix of televised lectures, reading assignments, writing assignments, and examinations. Credits earned in telecourses numbered 299 may be counted only as elective credits. No more than 12 telecourse credits may be applied toward graduation requirements. Telecourses may not be counted toward the 16-19 nonbusiness electives required for the bachelor of business administration degree.

**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 BSU, 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.

**SL Service Learning Credit (1 credit).** A student may earn a service-learning credit by enrolling in a base course whose instructor offers the option of registering for one additional credit designated by SL. The service-learning credit is earned for participating in service opportunities that are intentionally designed to promote learning while helping meet human and community needs. The assigned amount of credits for the base course remains the same, but the student receives additional service-learning credit for meeting the learning and service requirements. A student may take up to three service-learning credits in a semester and may apply no more than nine service-learning credits towards his/her degree.

## Course Prefixes

Table 12.2, below, lists all of the course prefixes used at Boise State University. A course prefix is the one- or two-letter code preceding a course number; it indicates the subject area of the course.

**Table 12.2**
**Course Prefixes**

| Prefix | Meaning | Department |
|---|---|---|
| A+SUPTEC | A+ Computer Support Technician | Applied Technology |
| ACCT | Accountancy | Accountancy |
| ANTH | Anthropology | Anthropology |
| APPREN | Apprenticeship | Applied Technology |
| ART | Art | Art |
| ATHLADM | Athletic Administration | Kinesiology |
| AUTOBD | Auto Body | Applied Technology |
| AUTOTEC | Automotive Technology | Applied Technology |
| BASCI | Bachelor of Applied Science | Applied Technology |
| BIOL | Biology | Biology |
| BOT | Botany | Biology |
| BRDTEC | Broadcast Technology | Applied Technology |
| BSCTEC | Computer Service Technology | Applied Technology |
| BUSCOM | Business Communication | Marketing and Finance |
| BUSSTAT | Business Statistics | Computer Information Systems and Production Management |
| BUSTEC | Business Technology | Applied Technology |
| CANSTD | Canadian Studies | College of Social Sciences and Public Affairs |
| CE | Civil Engineering | Civil Engineering |
| CHEM | Chemistry | Chemistry |
| CHLDCR | Child Care | Applied Technology |
| CIS | Computer Information Systems | Computer Information Systems and Production Management |
| CJA | Criminal Justice Administration | Criminal Justice Administration |
| CMGT | Construction Management | Construction Management |
| CNETSUPP | Computer Network Support Technician | Applied Technology |
| COMM | Communication | Communication |
| COMPE | Computer Engineering | Electrical Engineering |

| Prefix | Meaning | Department |
|---|---|---|
| COMPSCI | Computer Science | Computer Science |
| CORBLK | Core Block | Applied Technology |
| COUN | Counseling | Counselor Education |
| CST | Computer Service Technology | Applied Technology |
| CULART | Culinary Arts | Applied Technology |
| DIESEL | Heavy Duty Mechanics- Diesel | Applied Technology |
| DISPUT | Dispute Resolution | College of Social Sciences and Public Affairs |
| DNTASST | Dental Assisting | Applied Technology |
| DRAFTEC | Drafting | Applied Technology |
| ECON | Economics | Economics |
| EDUC | Education | Teacher Education |
| EE | Electrical Engineering | Electrical Engineering |
| ELCTEC | Electronics Technology | Applied Technology |
| ELLINE | Electrical Lineworker | Applied Technology |
| ENGL | English | English |
| ENGR | Engineering Sciences | Engineering |
| ENVHLTH | Environmental Health | Health Studies |
| FARMBUS | Farm Business Management | Applied Technology |
| FINAN | Finance | Marketing and Finance |
| FIRESV | Fire Service Technology | Applied Technology |
| FOREST | Forestry | Biology |
| FORLNG | Foreign Language | Modern Languages and Literatures |
| FREN | French | Modern Languages and Literatures |
| GENBUS | General Business | Management |
| GENED | General Education | |
| GENSCI | General Science | Geosciences |
| GEOG | Geography | Geosciences |
| GEOL | Geology | Geosciences |
| GEOL-ISU | Geology | BSU/ISU |
| GEOPH | Geophysics | Geosciences |
| GERM | German | Modern Languages and Literatures |
| GREEK | Greek | History |
| HIST | History | History |
| HLTHINFO | Health Information Technology | Health Studies |
| HLTHST | Health Studies | Health Studies |
| HONORS | Honors | Honors College |
| HORTEC | Horticulture Technology | Applied Technology |
| HUM | Humanities | English |
| HYDRO-UI | Hydrogeology | BSU/UI |
| IMTEC | Industrial Maintenance Technology | Applied Technology |
| INTBUS | International Business | International Business |
| INTDIS | Interdisciplinary Studies | College of Arts and Sciences |
| INTPRGM | International Student Programs | International Student Programs |
| IPDT | Idaho Professional Driver Training | Applied Technology |
| IPT | Instructional and Performance Technology | College of Engineering |
| JAPN | Japanese | Modern Languages and Literatures |
| KINES | Kinesiology | Kinesiology |
| KIN-ACT | Kinesiology-Activities | Kinesiology |
| LATIN | Latin | History |
| LEGAST | Legal Assistant | College of Social Sciences and Public Affairs |
| LIBSCI | Library Science | Teacher Education |
| LING | Linguistics | English |

| Prefix | Meaning | Department |
|---|---|---|
| MACHTEC | Machine Tool Technology | Applied Technology |
| MATH | Mathematics | Mathematics |
| MATHED | Mathematics for Instruction | Mathematics |
| MBA | Master of Business Administration | College of Business and Economics |
| ME | Mechanical Engineering | Mechanical Engineering |
| MFGTEC | Computer Aided Manufacturing Technology | Applied Technology |
| MGMT | Management | Management |
| MHLTHSCI | Master of Health Science | College of Health Science |
| MILSCI | Military Science | Military Science |
| MIS | Management Information | Computer Information Systems and Production Management |
| MKTG | Marketing | Marketing and Finance |
| MRKTEC | Marketing/Management | Applied Technology |
| MUS | Music, General | Music |
| MUS-APL | Music, Applied | Music |
| MUS-ENS | Music, Ensemble | Music |
| MUS-PRV | Music, Private Lessons | Music |
| NATSTDEX | National Student Exchange | National Student Exchange |
| NTCOMM | Networking and | Computer Information Systems and Production Management |
| NURS-A | Nursing | Nursing |
| NURS-B | Nursing | Nursing |
| NURS-P | Practical Nursing | Nursing |
| OFFOCC | Office Occupations | Applied Technology |
| OPERMGT | Production Management | Computer Information Systems and Production Management |
| PHIL | Philosophy | Philosophy |
| PHYS | Physics | Physics |
| PHYSCI | Physical Science | Physics |
| POLS | Political Science | Political Science |
| PSYC | Psychology | Psychology |
| PUBADM | Public Administration | Public Affairs |
| RADSCI | Radiologic Sciences | Radiologic Sciences |
| REFHTEC | Refrigeration, Heating and Air Conditioning | Applied Technology |
| RESPTEC | Respiratory Therapy Technician | Applied Technology |
| RESPTHER | Respiratory Therapy | Respiratory Therapy |
| SEMITEC | Semiconductor Technology | Applied Technology |
| SMENGTEC | Recreational and Small Engine Repair Technology | Applied Technology |
| SOC | Sociology | Sociology |
| SOCSCI | Social Science | Sociology |
| SOCWRK | Social Work | Social Work |
| SPAN | Spanish | Modern Languages and Literatures |
| STUDGOV | Student Government | Vice-President for Student Affairs |
| SURGTEC | Surgical Technology | Applied Technology |
| TEACH-ED | Teacher Education | Teacher Education |
| TECSUP | Technical Support | Applied Technology |
| THEA | Theatre Arts | Theatre Arts |
| TRKDRV | Professional Truck Driving | Applied Technology |
| UNIV | University | Gateway Center for Academic Support |
| WELD | Welding and Metals Fabrication | Applied Technology |
| WOMSTD | Women's Studies | Sociology |
| ZOOL | Zoology | Biology |

# Academic Programs and Courses

## Department of Accountancy

Business Building, Room 214 Telephone 208 426-3461

*Chair and Professor:* Thomas English. *Professors:* Lathen, Koeppen, Pirrong. *Associate Professors:* Bahnson, D. English, Novak, Sarikas. *Assistant Professors:* Allen, Gore. *Special Lecturers:* Bates, Caylor, Christensen, Ilett.

## 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
- 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. It is also designed to 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 (CMA's) and Certified Internal Auditors (CIA's). 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 40 for list of approved courses** | |
| Area I core courses | 6 |
| **Area II — see page 40 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 40 for list of approved courses** | |
| Area III core course - (MATH 143 or MATH 147) | 3-5 |
| Area III core course - (MATH 160 or MATH 170,171) | 4-5 |
| 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, geography, history, political science, psychology, social work, sociology, teacher education); **Natural Sciences and Mathematics** (biological sciences, physical sciences, mathematics) No more than 3 credits may be fitness/kinesiology activity courses. Telecourses are excluded. | 17-20 |
| *ACCT 205 Introduction to Financial Accounting<br>*ACCT 206 Introduction to Managerial Accounting<br>*ACCT 302 Survey of Federal Income Taxation<br>*ACCT 304, 306, 308 Intermediate Accounting I, II, III<br>*ACCT 350 Analysis, Design and Audit of Accounting Information Systems<br>*ACCT 351 Cost Accounting<br>*ACCT 405 Internal Auditing | 3<br>3<br>3<br>9<br>3<br>3<br>3 |
| *BUSCOM 328 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<br>*GENBUS 450 Business Policies | 6<br>3 |
| *-**MGMT 301 Leadership Skills | 3 |
| *-**MKTG 301 Principles of Marketing | 3 |
| *-**OPERMGT 345 Principles of Production Management | 3 |
| ***Electives to total 128 credits | 13 |
| 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 CIS 217 | 9 |
| ***Electives to total 128 credits | 1 |
| Total | 128 |

NOTES: *At least 32 of these business credits must be taken at Boise State University.
**Must be completed with grades of 'C' or higher before taking GENBUS 450.
***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 CIS 104, 105, 106.

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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<br>ACCT 206 Introduction to Managerial Accounting<br>ACCT 302 Survey of Federal Income Taxation<br>ACCT 304 Intermediate Accounting I<br>ACCT 351 Cost Accounting | 3<br>3<br>3<br>3<br>3 |
| Upper-division accountancy courses | 6 |
| Total | 21 |

NOTE: These courses must be completed with a grade of C or better.

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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 351, ACCT 451, FINAN 410, or FINAN 411 | 3 |
| Total | 21 |
| NOTE: These courses must be completed with a grade of C or better. | |

## Course Offerings

**See page 53 for a definition of the course-numbering system.**

**ACCT — ACCOUNTANCY**

**Lower Division**

**ACCT 205 INTRODUCTION TO FINANCIAL ACCOUNTING (3-0-3).** Introduction to contemporary financial reporting in the business world. The primary objective is to make the student aware of the importance of accounting information as a powerful tool in the decision-making process. The emphasis of the course is on the uses of financial information in making investment and credit decisions rather than the preparation of that information.

**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).** Introduction to the 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. Emphasis will be placed on social, political, and ethical considerations of tax law. Degree credit will be allowed for either ACCT 302 or ACCT 320. PREREQ: ACCT 205.

**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 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).** Introduces accounting information systems. Topics include the 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. The course involves hands-on projects in spreadsheet, database, flowchart, and accounting software. PREREQ: ACCT 304 and satisfactory completion of computer competency exam.

**ACCT 351 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 is placed on cost management and the use of information for decision making. Current cost management techniques are covered. PREREQ: ACCT 206 and BUSSTAT 207.

**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 communications 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 351 and OPERMGT 345.

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

# Interdisciplinary Studies in Aging

Health Science Riverside, Room 104 Telephone 208 426-3832
http://hs.boisestate.edu/aging/
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 Health Studies. 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**<br>*BIOL 227-228 Human Anatomy and Physiology **OR**<br>ZOOL 107 Concepts of Human Anatomy and Physiology | 4-8 |
| BIOL 300 Biology of Aging | 3 |
| HLTHST 410 Health and Aging | 3 |
| *PSYC 101 General Psychology<br>PSYC 213 Psychology of Aging | 3<br>3 |
| *SOC 101 Introduction to Sociology<br>SOC 325 Sociology of Aging **OR**<br>SOC 481 Sociology of Gender and Aging | 3<br>3<br>3 |
| SOCWRK 433 Aging: Social Policy and Programs | 3 |
| Gerontology elective credits:<br>Electives to be approved by I.S.A. committee | 6 |
| Total | 31-35 |
| * These lower-division required courses meet core requirements. | |

### Alcohol and Drug Studies Minor — See Department of Health Studies

### American Government — See Department of Political Science

# Department of Anthropology

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

*Chair and Associate Professor:* T. Virginia Cox. *Professor:* Pavesic, Plew. *Associate Professor*: McCarl. *Adjunct Assistant Professor:* House. *Special Lecturers:* Goddard, Klikunas.

## Degrees Offered

- B.A. and Minor in Anthropology
- B.A. in Anthropology, Social Science, Secondary Education
- 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 and participates in the Canadian Studies program.

### Anthropology
### Bachelor of Arts
### Liberal Arts Option

| Course Number and Title | Credits |
|---|---|
| ENGL 101, 102 English Composition | 6 |
| **Area I — see page 40 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 40 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 40 for list of approved courses** | |
| MATH 124 Mathematics as a Liberal Art | 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 215 Cultural Concepts in Anthropology | 3 |
| ANTH 301 History of Anthropology | 3 |
| ANTH 492 Senior Practicum - Portfolio | 1 |
| Group I courses selected from the following:<br>ANTH 325 Human Variation<br>ANTH 410 Expressive Culture<br>ANTH 411 Language, Culture, and Society<br>ANTH 425 Medical Anthropology<br>ANTH 428 Urban Anthropology<br>ANTH 430 Applied Anthropology<br>ANTH 480 Seminar in Anthropology | 9 |

*— continued —*

| *Anthropology, Liberal Arts Option (continued)* | |
|---|---|
| Group II courses selected from the following:<br>ANTH 305 Peoples of the Pacific Islands<br>ANTH 307 Indians of North America<br>ANTH 308 Indians of South America<br>ANTH 310 Japanese Culture and Society<br>ANTH 311 Peoples and Cultures of the World<br>ANTH 315 Indian Peoples of Idaho | 9 |
| Group III courses selected from the following:<br>ANTH 300 African Prehistory<br>ANTH 302 European Prehistory<br>ANTH 312 Archaeology of North America<br>ANTH 313 Archaeology of South America<br>ANTH 319 Archaeology of Mesoamerica | 9 |
| SOC 210 Computer Applications in Social Science<br>SOC 310 Elementary Social Statistics or equivalent | 4<br>4 |
| Upper-division electives to total 40 credits<br>Recommended elective: LING 305 Introduction to Linguistics. | 6 |
| Electives to total 128 credits | 28 |
| Total | 128 |

The social science, secondary education emphasis programs are cooperative, multidisciplinary programs involving the departments of economics, history, political science, sociology, and anthropology. Each of these departments, except history, provides a major emphasis with the social science, secondary education emphasis. Students choosing this emphasis must:

1. complete a minimum of 42 credits in anthropology
2. complete a minimum of 21 credits in one of the above departments (other than anthropology) 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

### Anthropology, Social Science
### Secondary Education Emphasis
### Bachelor of Arts

| Course Number and Title | Credits |
|---|---|
| ENGL 101, 102 English Composition | 6 |
| **Area I — see page 40 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 40 for list of approved courses** | |
| MATH 124 Mathematics as a Liberal Art | 4 |
| Area III core course in a second field | 4 |
| Area III core course in any field | 4 |
| ANTH 102 Cultural Anthropology | 3 |
| ANTH 103 Introduction to Archaeology | 3 |
| ANTH 209 Issues in Cultural Diversity | 3 |
| ANTH 215 Cultural Concepts in Anthropology | 3 |
| ANTH 301 History of Anthropology | 3 |
| ANTH 311 Peoples and Cultures of the World | 3 |
| ANTH 430 Applied Anthropology | 3 |
| ANTH 492 Senior Practicum - Portfolio | 1 |
| Group I courses selected from the following:<br>ANTH 325 Human Variation<br>ANTH 410 Expressive Culture<br>ANTH 411 Language, Culture, and Society | 6 |

*— continued —*

| *Anthropology, Social Science, Secondary Education (continued)* | |
|---|---|
| ANTH 425 Medical Anthropology<br>ANTH 428 Urban Anthropology<br>ANTH 480 Seminar in Anthropology | |
| Group II courses selected from the following:<br>ANTH 305 Peoples of the Pacific Islands<br>ANTH 307 Indians of North America<br>ANTH 308 Indians of South America<br>ANTH 310 Japanese Culture and Society<br>ANTH 315 Indian Peoples of Idaho | 6 |
| Group III courses selected from the following:<br>ANTH 300 African Prehistory<br>ANTH 302 European Prehistory<br>ANTH 312 Archaeology of North America<br>ANTH 313 Archaeology of South America<br>ANTH 319 Archaeology of Mesoamerica | 6 |
| Social science field other than Anthropology | 21 |
| EDUC 201 Foundations of Education<br>EDUC 202 Educational Technology – Classroom Applications<br>EDUC 301 Teaching: Experience I<br>EDUC 302 Learning and Instruction<br>EDUC 350 Teaching Students with Exceptional Needs at the Secondary Level<br>EDUC 401 Professional Year - Teaching Experience II<br>EDUC 402 Content Literacy for Secondary Students<br>EDUC 405 Teaching Secondary Social Studies<br>Teaching Experience III/IV<br>NOTE: Completion of all requirements for graduation with a secondary education option may require more than 128 credit hours. See "Teacher Education" for more information. | 3<br>3<br>1<br>4<br>3<br><br>2<br>3<br>3<br>16 |
| Total | 132-138 |

## Anthropology Minor Liberal Arts Option

| Course Number and Title | Credits |
|---|---|
| ANTH 101 Physical Anthropology<br>ANTH 102 Cultural Anthropology<br>ANTH 103 Introduction to Archaeology<br>ANTH 311 Peoples and Cultures of the World | 3<br>3<br>3<br>3 |
| Upper-division anthropology courses | 9 |
| Total | 21 |

## Anthropology, Social Science, Secondary Education Minor Option

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

## Native American Studies Minor

| Course Number and Title | Credits |
|---|---|
| ANTH 102 Cultural Anthropology<br>ANTH 307 Indians of North America<br>ANTH 308 Indians of South America<br>ANTH 315 Indian Peoples of Idaho | 3<br>3<br>3<br>3 |
| ANTH 312 Archaeology of North America **OR**<br>ANTH 313 Archaeology of South America **OR**<br>ANTH 319 Archaeology of Mesoamerica | 3 |
| HIST 356 The Indian in U S History **OR**<br>Upper-division anthropology courses **OR**<br>Native American content course from other disciplines | 6 |
| Total | 21 |

# Course Offerings

**See page 53 for a definition of the course-numbering system.**

**ANTH — ANTHROPOLOGY**

**Lower Division**

**ANTH 101 PHYSICAL ANTHROPOLOGY (3-0-3)(Area II).** An 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).** An introduction to the descriptions, analysis, and explanations of the different ways of life, or cultures, through which human groups have adapted to their environments. An 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).** An introduction to the historic background and basic techniques of anthropological archaeology. The methods and theory used to reconstruct prehistoric cultures, their environmental settings, activities, and histories.

**ANTH 209 ISSUES IN CULTURAL DIVERSITY (3-0-3)(F/S).** This course is designed to provide the introductory student with the skills necessary to recognize and analyze issues of cultural diversity, using basic anthropological strategies. The course will approach cultural diversity from the local and global perspective and will study issues of concern about cultural ecology, cultural pluralism, cross-cultural communication, human reproduction, family life and organization, religion, and art.

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

**ANTH 218 ETHNOGRAPHIC METHODS (3-0-3)(F/S).** A survey of ethnographic literature, approaches to ethnographic field work 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.

**ANTH 220 ARCHAEOLOGICAL METHODS (3-0-3)(F/S).** Methods of data collection and analysis, description and classification of archaeological materials in cataloging and documentation, methods used in artifact analysis, typology and seriation, ecofactual analyses, and methods of preparation of technical reports and papers for publication.

**Upper Division**

**ANTH 300 AFRICAN PREHISTORY (3-0-3)(F/S)(Odd years).** A survey of the archaeology of Africa, beginning with a discussion of Hominid origins and evolution. Emphasis upon culture history with reference to Oldowan, Acheulian and Mousterian culture, the Later Prehistory, and the Iron Age. Environmental adaptations, origins of food production, and social complexity will be discussed.

**ANTH 301 HISTORY OF 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 215 and upper-division status.

**ANTH 302 EUROPEAN PREHISTORY (3-0-3)(F/S)(Even years).** A survey of prehistoric European cultures and peoples from the earliest Stone Age evidence through the Iron Age. Special emphasis will be given to ancient technology, economics, demography, art, and social organization. PREREQ: ANTH 103 or upper-division status.

**ANTH 305 PEOPLES OF THE PACIFIC ISLANDS (3-0-3)(F/S)(Alternate years).** A survey of the ethnographic area Oceania. Will include a study of the ethnographic data from the islands of Polynesia, Melanesia, and Micronesia, from original settlement to present time. PREREQ: Upper-division status 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: Upper-division status or PERM/INST.

**ANTH 308 INDIANS OF SOUTH AMERICA (3-0-3)(F/S).** A survey and analysis of native South American cultures, emphasizing cultural-environmental adaptations and historical events affecting the acculturation of the region's native peoples. PREREQ: ANTH 102, upper-division status, or PERM/INST.

**ANTH 310 JAPANESE CULTURE AND SOCIETY (3-0-3)(F/S)(Alternate years).** An introduction to the structure and substance of Japanese culture. An investigation into the development of Japanese culture from prehistory to present, the development of the Japanese world view, cultural patterns, beliefs, behaviors, values, and norms that are reflected in Japanese culture today.

**ANTH 311 PEOPLES AND CULTURES OF THE WORLD (3-0-3)(F/S).** An ethnographic description-comparative analysis of subsistence, family life, political economy, and belief systems within selected world cultures. PREREQ: Upper-division status.

**ANTH 312 ARCHAEOLOGY OF NORTH AMERICA (3-0-3)(F/S).** A survey of prehistoric cultures of North America north of Mexico. The course includes a history of ideas about native America origins and antiquities, along with demonstrating regional societal complexity on the continent. Special emphasis is given to the study of early man and the cultures of the Eastern Woodlands, the America Southwest, and the intermountain West. PREREQ: Upper-division status or PERM/INST.

**ANTH 313 ARCHAEOLOGY OF SOUTH AMERICA (3-0-3)(F/S)(Even years).** A comprehensive survey of the culture history of South America, from the earliest Paleo-Indians to the Peruvian high cultures. Emphasis is placed on regional chronologies, environmental adaptations, origins of American agriculture, social complexity, and culture change. PREREQ: ANTH 103, upper-division status, or PERM/INST.

**ANTH 315 INDIAN PEOPLES OF IDAHO (3-0-3)(F/S).** A study of the pre-historic and recent cultures of the native peoples of Idaho. Topics will include the interpretation of ancient Idaho cultures, the distinctiveness of the recent tribal groupings, and the relationship between past and present Idaho societies to those of the Great Basin, Interior Plateau and Northern Plains. PREREQ: Upper-division status or PERM/INST.

**ANTH 319 ARCHAEOLOGY OF MESOAMERICA (3-0-3)(F/S)(Even years).** A survey of pre-Columbian cultures of Central America, with an emphasis on Mexico. Special focus on the transition from Pre-Classic to Classic civilization, with consideration of the Maya and Aztec. PREREQ: ANTH 103, upper-division status, or PERM/INST.

**ANTH 325 HUMAN VARIATION (3-0-3)(F/S)(Alternate years).** An examination of human evolution during the past 5 million years, with emphasis on evolutionary theory and both the human fossil record and present patterns of variability among humans. PREREQ: ANTH 101 or 102, upper-division status, 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..

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

**ANTH 425 MEDICAL ANTHROPOLOGY: DISEASE, CULTURE, AND HEALING (3-0-3)(F/S).** This course 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.

**ANTH 428 URBAN ANTHROPOLOGY (3-0-3)(F/S)(Alternate years).** This course examines the varieties of cultural experiences within urban settings. The course 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.

**ANTH 430 APPLIED ANTHROPOLOGY (3-0-3)(F/S).** An 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, upper-division status, 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, upper-division status.

**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. PREREQ: PERM/INST. Special fee required for room and board.

**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).** The course is 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

Liberal Arts Building, Room 252 Telephone 208 426-1230
http://www.boisestate.edu/art/arthom7.html

*Chair and Professor:* Gary Rosine. *Professors:* Blankenship, Douglass, Hanlon, Heap, Roberts, Shurtleff-Young, Smith, Taye, Taylor. *Associate Professors:* Benson, Budde, Hoopes, Miller, Young. *Assistant Professors:* Bacon, Carman, Fox, Heer, Kosasa, McNeil, Turner. *Visiting Professor:* Machacek.

## Degrees Offered

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

## Degree Requirements

**Visual Art**
**Bachelor of Arts**

| Course Number and Title | Credits |
|---|---|
| ENGL 101, 102 English Composition | 6 |
| **Area I — see page 40 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 (ART 105 applies) | * |
| Area I core course in any field (ART 106 applies) | * |
| **Area II — see page 40 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 40 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 101, 102 Survey of Western Art I and II | 6 |
| *ART 105, 106 Basic Design | 6 |
| ART 111, 112 Drawing I and II | 6 |
| ART 120 Art Foundation Orientation | 1 |
| ART 124 Art Foundation Orientation | 1 |
| ART 498 Senior Seminar | 3 |
| Three 2-dimensional courses chosen from:<br>ART 117 Introduction to Typography and Graphic Design<br>ART 209 Introduction to Printmaking<br>ART 211 Anatomy/Life Drawing<br>ART 215 Introduction to Painting **OR**<br>ART 217 Watercolor and Related Media<br>ART 251 Introduction to Creative Photography | 9 |
| Two 3-dimensional courses chosen from:<br>ART 221 Art Metals<br>ART 225, 226 Ceramics<br>ART 231 Beginning Sculpture<br>Two disciplines must be represented | 6 |
| Upper-division Art history | 3 |
| Upper-division Art electives | 6 |
| Upper-division electives to total 40 credits | 28 |
| Electives to total 128 credits | 16-18 |
| Total | 128 |

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

## Visual Art
## Bachelor of Fine Arts

| Course Number and Title | Credits |
|---|---|
| ENGL 101, 102 English Composition | 6 |
| **Area I — see page 40 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 |
| Art History emphasis requires specific courses. See area of emphasis below. | |
| **Area II — see page 40 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 40 for list of approved courses** | |
| Area III core course in mathematics | 3-5 |
| Area III core courses | 4 |
| ART 101, 102 Survey of Western Art I and II | 6 |
| ART 105, 106 Basic Design | 6 |
| ART 111, 112 Drawing I and II | 6 |
| ART 120 Art Foundation Orientation | 1 |
| ART 124 Art Foundation Orientation | 1 |
| ART 410 Professional Practices in Art | 3 |
| ART 498 Senior Seminar | 3 |
| Three 2-dimensional courses chosen from: | 9 |
| ART 117 Introduction to Typography and Graphic Design | |
| ART 209 Introduction to Printmaking | |
| ART 211 Anatomy/Life Drawing | |
| ART 215 Introduction to Painting **OR** | |
| ART 217 Watercolor and Related Media | |
| ART 251 Introduction to Creative Photography | |
| See your area of emphasis requirements for any specific course recommendations | |
| Two 3-dimensional courses chosen from: | 6 |
| 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 | |
| Upper-division Art history | 6 |
| **Area of Emphasis:** Students may emphasize Art Metals, Ceramics, Drawing, Interdisciplinary Art Studio, Painting, Photography, Printmaking, or Sculpture. Each area of emphasis has specific requirements which are listed below. | |
| **Art Metals Emphasis** | |
| ART 221 Art Metals | - |
| ART 222 Art Metals | 3 |
| ART 225, 226 Ceramics | 3 |
| ART 231 Beginning Sculpture | - |
| ART 307 Studio in Metalsmithing | 6 |
| ART 419 Studio in Metals | 6 |
| Requires 3 credits in Ceramics and 3 credits in Sculpture | |
| Art electives | 9 |
| Upper-division Art electives | 6 |
| Upper-division electives to total 40 credits | 10 |
| Electives to total 128 credits | 5-7 |
| **Ceramics Emphasis** | |
| ART 221 Art Metals | - |
| ART 225 Ceramics | - |
| ART 226 Ceramics | 3 |
| ART 231 Beginning Sculpture | 3 |
| ART 325, 326 Studio in Ceramics | 6 |
| ART 425 Studio in Ceramics | 6 |
| Requires 3 credits in Art Metals and 3 credits in Sculpture | |

*— continued —*

*Visual Art, Bachelor of Fine Arts (continued)*

| | |
|---|---|
| Art electives | 9 |
| Upper-division Art electives | 6 |
| Upper-division electives to total 40 credits | 10 |
| Electives to total 128 credits | 5-7 |
| **Drawing Emphasis** | |
| ART 211 Anatomy/Life Drawing | - |
| ART 311 Intermediate Drawing | 3 |
| ART 312 Intermediate Life Drawing | 3 |
| ART 309 Studio in Printmaking **OR** | 6 |
| ART 311 Intermediate Drawing **OR** | |
| ART 312 Intermediate Life Drawing **OR** | |
| ART 315 Intermediate Painting | |
| ART 411 Drawing Studio | 9 |
| Art electives | 6 |
| Upper-division Art electives | 6 |
| Upper-division electives to total 40 credits | 1 |
| 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 electives | 3 |
| Upper-division Art electives | 6 |
| Upper-division electives to total 40 credits | 10 |
| Electives to total 128 credits | 5-7 |
| **Painting Emphasis** | |
| ART 215 Introduction to Painting | - |
| ART 217 Watercolor and Related Media | 3 |
| ART 219 Figure and Portrait Painting | 3 |
| ART 315 Intermediate Painting | 3 |
| ART 317 Watercolor and Related Media **OR** | 3 |
| ART 319 Figure and Portrait Painting | |
| ART 415 Studio in Painting | 6 |
| ART 417 Studio in Painting-Watercolor **OR** | 3 |
| ART 420 Studio in Figure-Portrait Painting | |
| Art electives | 6 |
| Upper-division Art electives | 6 |
| Upper-division electives to total 40 credits | 7 |
| Electives to total 128 credits | 8-10 |
| **Photography Emphasis** | |
| ART 251 Introduction to Creative Photography | - |
| ART 252 History of Photography | 3 |
| ART 341 Creative Photography | 3 |
| ART 344 Creative Photography, Color Printing | 3 |
| ART 441 Creative Photography **OR** | 9 |
| ART 444 Creative Photography, Color Printing | |
| Art electives | 6 |
| Upper-division Art electives | 6 |
| Upper-division Photography elective | 3 |
| Upper-division electives to total 40 credits | 4 |
| Electives to total 128 credits | 11-13 |
| **Printmaking Emphasis** | |
| ART 209 Introduction to Printmaking | - |
| ART 309 Studio in Printmaking | 6 |
| ART 409 Studio in Printmaking | 9 |
| ART 311 Intermediate Drawing **OR** | 3 |
| ART 315 Intermediate Painting **OR** | |
| ART 409 Studio in Printmaking **OR** | |
| ART 411 Advanced Drawing Studio **OR** | |
| ART 415 Studio in Painting | |

*— continued —*

| *Visual Art, Bachelor of Fine Arts (continued)* | |
|---|---|
| Art electives | 9 |
| Upper-division Art electives | 6 |
| Upper-division electives to total 40 credits | 4 |
| Electives to total 128 credits | 11-13 |
| **Sculpture Emphasis** | |
| ART 221 Art Metals | 3 |
| ART 225, 226 Ceramics | - |
| ART 231 Beginning Sculpture | - |
| ART 331 Carving **OR** | 6 |
| ART 332 Figure Sculpture **OR** | |
| ART 334 Assembled Form **OR** | |
| ART 339 Cast Form | |
| ART 431 Studio in Sculpture | 6 |
| Requires 3 credits in Art Metals and 3 credits in Ceramics | |
| Art electives | 12 |
| Upper-division Art electives | 6 |
| Upper-division electives to total 40 credits | 10 |
| Electives to total 128 credits | 5-7 |
| Total | 128 |

## Art Education
## K-12 OR 6-12
## Bachelor of Arts

| Course Number and Title | Credits |
|---|---|
| ENGL 101, 102 English Composition | 6 |
| **Area I — see page 40 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 (ART 101 satisfies this requirement) | * |
| Area I core course in any field (ART 102 satisfies this requirement) | * |
| **Area II — see page 40 for list of approved courses** | |
| EDUC 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 40 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 105, 106 Basic Design | 6 |
| ART 300 Multicultural Arts | 2 |
| ART 322 Elementary School Art Methods for Art Education Majors | 4 |
| ART 351 Art Methods in Secondary Schools | 4 |
| ART 498 Senior Seminar | 3 |
| Art history | 9 |
| Ceramics | 3 |
| Drawing | 6 |
| Painting | 3 |
| Sculpture | 3 |
| Watercolor | 3 |
| EDUC 202 Educational Technology – Classroom Applications | 3 |
| EDUC 301 Teaching: Experience I | 1 |
| EDUC 302 Learning and Instruction | 4 |
| EDUC 350 Teaching Students with Exceptional Needs at the Secondary Level | 3 |
| EDUC 401 Professional Year - Teaching Experience II | 2 |
| EDUC 402 Content Literacy for Secondary Students | 3 |
| Teaching Experience III/IV | 16 |
| NOTE: Completion of all requirements for graduation with a secondary education option may require more than 128 credit hours. See "Teacher Education" for more information. | |
| Electives to total 128 credits | 13-15 |
| Total | 128 |

To purse a B.F.A. degree in art education, you must obtain departmental approval. You must also maintain a 3.0 grade-point average in your art 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 40 for list of approved courses** | |
| Area I core courses in literature | 6 |
| Area I core course chosen from HUM 207, 208, MUS 100, PHIL 101, 201, THEA 101, or Modern Language 201, 202 | 3 |
| **Area II — see page 40 for list of approved courses** | |
| EDUC 201 Foundations of Education | 3 |
| Area II core course in history | 3 |
| Area II core course in any field | 3 |
| **Area III — see page 40 for list of approved courses** | |
| Area III core course in mathematics | 3-5 |
| Area III core courses | 4 |
| ART 105, 106 Basic Design | 6 |
| ART 209 Introduction to Printmaking | 3 |
| ART 300 Multicultural Arts | 2 |
| ART 322 Elementary School Art Methods for Art Education Majors | 4 |
| ART 351 Art Methods in Secondary Schools | 4 |
| ART 410 Professional Practices in Art | 3 |
| ART 498 Senior Seminar | 3 |
| Art history | 9 |
| Ceramics | 3 |
| Drawing | 9 |
| Painting | 6 |
| Sculpture | 3 |
| Watercolor | 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. Eg: The 9 credits required in painting/watercolor can be applied to the 20 credit total. | 5-14 |
| EDUC 202 Educational Technology – Classroom Applications | 3 |
| EDUC 301 Teaching: Experience I | 1 |
| EDUC 302 Learning and Instruction | 4 |
| EDUC 350 Teaching Students with Exceptional Needs at the Secondary Level | 3 |
| EDUC 401 Professional Year - Teaching Experience II | 2 |
| EDUC 402 Content Literacy for Secondary Students | 3 |
| Teaching Experience III/IV | 16 |
| NOTE: Completion of all requirements for graduation with a secondary education option may require more than 128 credit hours. See "Teacher Education" for more information. | |
| Total | 128-135 |

## 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.A. and B.F.A. are required to meet the following criteria:

1. Admission to BSU.
2. Successful completion of these courses: ART 101-102 Survey of Western Art I and II, ART 105-106 Basic Design, ART 111-112 Drawing I and II, 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.

## Graphic Design
## Bachelor of Arts

| Course Number and Title | Credits |
|---|---|
| ENGL 101, 102 English Composition | 6 |
| **Area I — see page 40 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 | * |
| Area I core course in any field | * |
| *ART 105 and ART 106 can be used to satisfy 6 credits of Area I; however, an Area I course from an area outside of Art is recommended. | |
| **Area II — see page 40 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 40 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 101, 102 Survey of Western Art I and II | 6 |
| ART 105, 106 Basic Design | 6 |
| ART 111, 112 Drawing I and II | 6 |
| 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 211 Anatomy/Life Drawing | 3 |
| ART 251 Introduction to Creative Photography | 3 |
| ART 251 must be taken by the end of the sophomore year. | |
| ART 498 Senior Seminar | 3 |
| 6 additional credits at the 300-level selected from ART 305, ART 309, ART 341, ART 344, ART 361, ART 362, ART 388 (repeat) | 6 |
| 6 additional credits at the 400-level selected from ART 400, ART 409, ART 410, ART 441, ART 444, ART 461, ART 462, ART 483, ART 488 (repeat), ART 493, ART 495 | 6 |
| 100- level or higher sequence in modern language | 8 |
| Upper-division electives to total 40 credits | 19 |
| Electives to total 128 credits | 7-9 |
| Total | 128 |

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

## Graphic Design
## Bachelor of Fine Arts

| Course Number and Title | Credits |
|---|---|
| ENGL 101, 102 English Composition | 6 |
| **Area I — see page 40 for list of approved courses** | |
| Area I core courses in literature | 6 |
| Area I core course chosen from HUM 207, 208, MUS 100, PHIL 101, 201, THEA 101, or Modern Language 201, 202 | 3 |
| **Area II — see page 40 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 40 for list of approved courses** | |
| Area III core course in mathematics | 3-5 |
| Area III core courses | 4 |
| ART 101, 102 Survey of Western Art I and II | 6 |
| ART 105, 106 Basic Design | 6 |
| ART 111, 112 Drawing I and II | 6 |
| 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 211 Anatomy/Life Drawing | 3 |
| ART 251 Introduction to Creative Photography | 3 |
| ART 251 must be taken by the end of the sophomore year. | |
| ART 341 or 344 Creative Photography | 3 |
| ART 498 Senior Seminar | 3 |
| 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 441, ART 444, ART 461, ART 462, ART 483, ART 488 (repeat), ART 493, ART 495 | 12 |
| Upper-division Art history | 3 |
| Sculpture, ceramics, art metals | 3 |
| 100-level or higher modern language | 8 |
| Upper-division electives to total 40 credits | 4 |
| Electives to total 132 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 40 for list of approved courses** | |
| Area I core courses in an intermediate foreign language | 6 |
| Area I core course in literature | 3 |
| Area I core course in a third field (ART 101/102, 105/106 may apply) | * |
| **Area II — see page 40 for list of approved courses** | |
| Area II core course in history (Chosen from HIST 101,102,105,201,202) | 6 |
| Area II core course in a second field | 3 |
| Area II core course in a third field | 3 |
| **Area III — see page 40 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 101, 102 Survey of Western Art I and II | 6 |
| ART 105, 106 Basic Design | 6 |
| ART 410 Professional Practices in Art **OR** | 3 |
| ART 450 Art History Practicum | |
| ART 452 Methods and Theory in Art History | 3 |
| ART 499 Art History Seminar | 3 |

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| *History of Art and Visual Culture (continued)* | |
|---|---|
| One Ancient to Medieval Art course chosen from: ART 335, 336, 337, or 338 | 3 |
| One Renaissance to Baroque Art course chosen from: ART 354, 355, 365, or 366 | 3 |
| One Modern Art course chosen from: ART 301, 302, or 371 | 3 |
| One nonWestern Art course chosen from: ART 103, 352, 356, 357, 359, or relevant special topics course | 3 |
| 400- level Art History course | 3 |
| Art History 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 |

## Minimum Criteria for Upper-Division Admission in Illustration

The major in illustration requires admission to upper-division standing by special application to the art department. All prospective illustration majors are therefore required to meet the following minimum criteria for upper-division admission before applying to upper-division:

1. Admission to BSU.
2. Successful completion of the following courses (or equivalent courses): ART 101-102 Survey Western Art I and II, ART 105-106 Basic Design, ART 111-112 Drawing I and II, ART 118 Digital Tools for Graphic Design and Illustration, ART 211 Anatomy/Life Drawing, ART 215 Introduction to Painting, ART 361 Illustration I.
3. GPA of 3.0 in art.
4. Completion of at least 50 credit hours, including courses in progress.
5. Submission of a portfolio that meets the criteria and requirements for admittance into the upper-division program. The primary focus of the portfolio is to be illustration/painting/drawing.
6. Submission of a 500–1000 word essay that reflects your insights regarding the major.
7. Application with transcript, essay, and portfolio by October 1 for spring semester and March 1 for fall semester.

### Illustration
### Bachelor of Fine Arts

| Course Number and Title | Credits |
|---|---|
| ENGL 101, 102 English Composition | 6 |
| **Area I — see page 40 for list of approved courses** | |
| Area I core courses in literature | 6 |
| Area I core course chosen from HUM 207, 208, MUS 100, PHIL 101, 201, THEA 101, or Modern Language 201, 202 | 3 |
| **Area II — see page 40 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 40 for list of approved courses** | |
| Area III core course in mathematics | 3-5 |
| Area III core courses | 4 |
| ART 101, 102 Survey of Western Art I and II | 6 |
| ART 105, 106 Basic Design | 6 |
| ART 111, 112 Drawing I and II | 6 |
| ART 118 Digital Tools for Graphic Design and Illustration | 3 |

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| *Illustration (continued)* | |
|---|---|
| ART 209 Introduction to Printmaking | 3 |
| ART 211 Anatomy/Life Drawing | 3 |
| ART 215 Introduction to Painting | 3 |
| ART 217 Watercolor and Related Media | 3 |
| ART 219 Figure and Portrait Painting **OR** ART 319 Figure and Portrait Painting | 3 |
| ART 251 Introduction to Creative Photography | 3 |
| ART 305 Visual Design | 3 |
| ART 361, 362, 461, 462 Illustration | 12 |
| ART 410 Professional Practices in Art | 3 |
| ART 465 Senior Project in Illustration | 3 |
| ART 498 Senior Seminar | 3 |
| Art history (advisable to take minimum 3 credits at upper division level) | 6 |
| Sculpture, ceramics, or metals | 3 |
| Upper-division electives to total 40 credits | 13-16 |
| Electives to total 128 credits | 7-12 |
| Total | 128 |

### History of Art and Visual Culture Minor

| Course Number and Title | Credits |
|---|---|
| ART 101, 102 Survey of Western Art I and II | 6 |
| One Ancient to Medieval Art course chosen from: ART 335, 336, 337, or 338 | 3 |
| One Renaissance to Baroque Art course chosen from: ART 354, 355, 365, or 366 | 3 |
| One Modern Art course chosen from: ART 301, 302, or 371 | 3 |
| One nonWestern Art course chosen from: ART 103, 352, 356, 357, 359 or relevant special topics course | 3 |
| ART 452 Methods and Theory in Art History | 3 |
| Total | 21 |

### Visual Art Minor

| Course Number and Title | Credits |
|---|---|
| ART 101, 102 Survey of Western Art I and II | 6 |
| ART 105 Basic Design | 3 |
| ART 111 Drawing I | 3 |
| ART 215 Introduction to Painting | 3 |
| Ceramics, metals, or sculpture | 3 |
| Upper-division art course | 3 |
| Art course | 3 |
| Total | 24 |

## Pre-Architectural Program

Boise State University offers courses that can be used for a 2 to 2 1/2 year pre-architectural program. This program will satisfy the first two years of most architectural 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-Architectural Program

| Course Number and Title | Credits |
|---|---|
| ENGL 101, 102 English Composition | 6 |
| ART 100 Introduction to Art **OR** ART 101 Survey of Western Art I **OR** ART 102 Survey of Western Art II | 3 |
| ART 105, 106 Basic Design | 6 |
| MATH 147 Precalculus | 5 |
| MATH 160 Survey of Calculus | 4 |
| PHYS 111 General Physics | 4 |

*— continued —*

| *Pre-Architecture (continued)* | |
|---|---|
| Area I, II, or III core course (3 recommended) | 9 |
| ART 111 Drawing I | 3 |
| ART 156 Architectural Graphic Communication | 3 |
| ART 255 Advanced Architectural Graphics | 3 |
| ART 256 Basic 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 |
| Art courses | 2-3 |
| Total | 60-62 |
| 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 53 for a definition of the course-numbering system.**

**ART — 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)(Formerly ART 103) .** A one-semester course designed to acquaint the general college student with the aesthetics of painting, sculpture, architecture, and related art forms.

**ART 101 SURVEY OF WESTERN ART I (3-0-3)(F)(Area I)(Formerly ART 201).** An historical survey of painting, sculpture, and architecture from prehistoric art through the Middle Ages.

**ART 102 SURVEY OF WESTERN ART II (3-0-3)(S)(Area I)(Formerly ART 202).** An historical survey of painting, sculpture, and architecture from the Renaissance to the present.

**ART 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.

**ART 105 BASIC DESIGN (2-2-3)(Area I).** A two-dimensional, theoretical, and applied study of the basic design elements underlying all art areas.

**ART 106 BASIC DESIGN (2-4-3)(Area I).** An exploration of three-dimensional design elements. Emphasis on the theoretical and applied study of the structural organization underlying three-dimensional art forms.

**ART 107 LETTERING (0-4-2)(F/S).** A study of lettering techniques and various alphabetical forms. Emphasis upon modern styles, spacing, and layout.

**ART 111 DRAWING I (0-6-3)(F,S).** Observational drawing with an introduction to basic skills, media, and visual thinking. Concepts include perspective, space, line, value, volume, composition, and expression.

**ART 112 DRAWING II (0-6-3)(F,S).** Continuation of ART 111, with an emphasis on composition. Concepts include representational and abstract drawing from observation and imagination. Experimentation with various media and color. Introduction to figure drawing. PREREQ: ART 111.

**ART 115 LANDSCAPE PAINTING (0-6-3)(SU).** Various styles and techniques in landscape painting in oil, watercolor, and related media. Field trips. First summer session.

**ART 116 LANDSCAPE PAINTING (0-6-3)(SU).** (Description same as ART 115 above.) Second summer session.

**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. Students are advised to take ART 105 before or concurrent with ART 117.

**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 120 ART FOUNDATION ORIENTATION (1-0-1)(F).** Provides students with a comprehensive orientation of the study of Visual Arts and to the various disciplines represented by the Department of Art. (Pass/Fail)

**ART 123 CRAFTS (0-4-2)(F/S).** Lectures will be in the nature of crafts, the design principles, craftsmanship, and creativity. Several areas of crafts applicable to the public school classroom will be introduced. Simple crafts, leather work, mosaic, ceramic tile construction, batik, tie and dye, creative stitchery, enameling, macrame, simple ceramic work, sheet plastic, and others may be assigned. The proper use of hand tools and their safety will be stressed. This course is open to nonart majors.

**ART 124 ART FOUNDATION ORIENTATION (1-0-1)(S).** Provides students with a comprehensive orientation of the study of Visual Arts and to the various disciplines represented by the Department of Art. (Pass/Fail)

**ART 130 BASIC DRAWING AND PAINTING FOR NONART MAJORS (0-4-2)(F/S) (Formerly ART 100).** One-semester course with emphasis on media, techniques, and philosophy, designed to acquaint the general college student with the basic fundamentals of drawing and painting.

**ART 131 INTERIOR DESIGN (2-1-2)(F/S).** Aid in understanding and appreciating interior design. The most basic components of home decorating will be studied. These include color, wallpaper, fabrics, carpet, and furniture.

**ART 156 ARCHITECTURAL GRAPHIC COMMUNICATION (1-4-3)(S).** Introduction to the process of architectural graphic communication; to explore graphics through 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 208 WEAVING (0-4-2)(F/S)(Taught intermittently).** Skills and techniques in four-harness loom weaving, off-loom weaving, and tapestry weaving will be emphasized through construction and study of traditional and contemporary fiber arts.

**ART 209 INTRODUCTION TO PRINTMAKING (0-6-3)(F/S).** Introduction to historical and contemporary printmaking media and techniques and their creative potential. Advisable to have some experience in drawing and design.

**ART 210 PRINTMAKING (0-6-3)(F/S).** This course is designed to be a transitional class between the introduction to printmaking ART 209 and the advanced class, ART 309. Emphasis will be placed on the use of the techniques to accommodate one's own personal statement while utilizing sound design practices.

**ART 211 ANATOMY/LIFE DRAWING (0-6-3)(F,S).** A structural and aesthetic approach to drawing the nude. Study of proportions, skeletal and muscle structure and surface anatomy; some compositional emphasis . Model fee. PREREQ: ART 112.

**ART 215 INTRODUCTION TO PAINTING (0-6-3)(F,S).** An introduction to the fundamentals of painting from observation. This course will focus on an objective analysis and description of the visual perception of form. Oil or acrylic media. May be repeated once for credit. PREREQ: ART 111 or PERM/INST.

**ART 217 WATERCOLOR AND RELATED MEDIA (0-6-3)(F,S).** An introductory course emphasizing methods of traditional and contemporary water media. Emphasis on use of transparent watercolor. May be repeated once for credit. PREREQ: ART 215 or PERM/INST.

**ART 219 FIGURE AND PORTRAIT PAINTING (0-6-3)(F).** Objective studies from observation of the human figure, with a study of light, form, and color relationships used in traditional representational painting. Techniques and methods will be demonstrated. Oil or acrylic media. Model fee. May be repeated for credit. PREREQ: ART 211 and ART 215 or PERM/INST.

**ART 221 ART METALS (2-4-3)(F).** A creative exploration in design and construction problems. Various materials will be utilized with primary emphasis on jewelry design and metals. Craftsmanship and the care and usage of tools will be stressed.

**ART 222 ART METALS (2-4-3)(S).** Continued exploration in design and construction work in metal and other media. Fabrication, forming, and casting techniques will be emphasized. PREREQ: ART 221.

**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. Prerequisite: ART 106.

**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 252 HISTORY OF PHOTOGRAPHY (3-0-3)(F)(Even years).** This course is designed to provide a basic understanding of both the technical and visual history of photography. Through slide presentations, important photographers of the 19th and 20th centuries will be discussed in terms of their role in the development of photography as an art form.

**ART 255 ADVANCED ARCHITECTURAL GRAPHICS (1-4-3)(F).** Three-dimensional drawing, applying various delineation techniques; preliminary presentation techniques and use of color in graphics.

**ART 256 BASIC ARCHITECTURAL DESIGN (1-4-3)(S).** Introduction to the process of architectural design. Combines basic architectural projects with presentation techniques learned in ART 156 Architectural Graphic Communication or ART 255 Advanced Architectural Graphics. Advisable to take ART 156 or ART 255 before enrolling in ART 256 Basic Architectural Design.

**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).** This course is developed to enable students to identify construction materials, elements, and systems, to locate theoretical and proprietary information about them, and to sketch sections of various construction systems and combinations thereof. At completion, they should be able to select materials based on physical and psychological criteria and design with sensitivity to the appropriate use of various materials.

**Upper Division**

**ART 300 MULTICULTURAL ARTS (1-3-2)(F/S).** Designed to prepare art and art education majors in the history and practices of a variety of world cultures in two- and three-dimensional folk arts. The course will include basic history, anthropology, and aesthetics of art forms studied. Students will demonstrate proficiency in basic technical and artistic skills, research and present multicultural art lessons to peers, and participate in assessment of outcomes. Materials fee. PREREQ: Upper-division standing.

**ART 301-301G NINETEENTH CENTURY ART HISTORY (3-0-3)(F).** A study of important artists and movements from Neoclassicism through Post-Impressionism. Critical writing will be assigned.

**ART 302-302G HISTORY OF TWENTIETH CENTURY MOVEMENT IN ART (3-0-3)(S).** 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.

**ART 305-305G 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. Advisable to take ART 105 and ART 106 prior to ART 305.

**ART 307-307G STUDIO IN METALSMITHING (0-6-3)(F/S).** Advanced study in methods of jewelry making and metalsmithing with special emphasis on raising, die-forming, sheet-forming, and mechanical techniques to further develop personal skills in design and craftsmanship. May be repeated for credit. PREREQ: ART 221 and ART 222.

**ART 308 ADVANCED WEAVING (0-6-3)(F/S)(Taught intermittently).** Continuing development of skills and techniques in weaving will be emphasized through specialized areas of study such as drafting and designing complex weave structures, block theory, multi-layered and three- dimensional fiber construction, ikat and warp painting, and dyeing with natural and chemical dyes. Repeatable for credit. PREREQ: ART 208 or PERM/INST.

**ART 309-309G STUDIO IN PRINTMAKING (0-6-3)(F/S).** Advanced printmaking techniques and media. May be repeated once for credit. PREREQ: ART 209.

**ART 311-311G INTERMEDIATE DRAWING (0-6-3)(F,S).** Continuation of concepts introduced in ART 112, with an emphasis on creative and experimental approaches to content, technique, and composition.May be repeated for credit. PREREQ: ART 211.

**ART 312-312G INTERMEDIATE LIFE DRAWING (0-6-3)(F,S).** Structural and classical work from the model, with an increased emphasis on composition and expressive drawing. May be repeated for credit. Model fee. PREREQ: ART 211.

**ART 315-315G INTERMEDIATE PAINTING (0-6-3)(F,S).** A study of relevant historical, ideological, and aesthetic positions in painting. A personal and creative exploration of diverse styles, methods, structures and ideations. Oil, acrylic or other media. May be repeated once for credit. Admission by portfolio review the semester prior to enrollment. PREREQ: ART 217 or ART 219 or PERM/INST.

**ART 317-317G 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 217 and ART 315 or PERM/INST.

**ART 319-319G FIGURE AND PORTRAIT PAINTING (0-6-3)(F,S).** Painting the human figure in objective and interpretive modes of expression. Students will paint in realistic and semi-abstract manners. Oil or acrylic media. Model fee. May be repeated once for credit. Admission by portfolio review the prior semester. PREREQ: ART 219 and ART 315 or PERM/INST.

**ART 321-321G 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 322-322G 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. Materials fee. Graduate students will assume supervisory/leadership roles as appropriate. PREREQ: Art education major; upper-division standing.

**ART 325-325G 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 231.

**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 211 and ART 231.

**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 231.

**ART 335-335G 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. Recommended: ART 101.

**ART 336-336G 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. Recommended: ART 101.

**ART 337-337G 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. Recommended: ART 101.

**ART 338-338G 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. Recommended: ART 101.

**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 231 and one other 300-level sculpture course.

**ART 341-341G CREATIVE PHOTOGRAPHY (2-4-3)(F/S).** Advanced study of photographic techniques; emphasis on the creative approach to picture-taking and printing. Adjustable camera required. Advisable to take ART 251 prior to ART 341.

**ART 344-344G 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 346-346G PHOTOGRAPHY: ZONE SYSTEM (2-4-3)(F)(Odd years).** This course deals with the important relationship that exists between the negative and the print in photography. This course will provide systematic accounting of the numerous variables of personal equipment, procedures, films, developers, enlarging papers, and style. Technique as the clarifier of idea will be stressed. PREREQ: ART 251 or PERM/INST.

**ART 351-351G 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.

**ART 352-352G 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. Recommended ART 103.

**ART 354-354G 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. Recommended: ART 102.

**ART 355-355G 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. Recommended: ART 102.

**ART 356-356G 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. Recommended ART 103.

**ART 357-357G 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. Recommended ART 103.

**ART 359-359G 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.

**ART 361-361G ILLUSTRATION I (0-6-3)(F).** Survey of historical and contemporary illustration materials, techniques, and styles. Focus on creative communicative solutions to visual problems. PREREQ: ART 105, ART 106 and ART 112.

**ART 362-362G 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 365-365G 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. Recommended: ART 102.

**ART 366-366G 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. Recommended: ART 102.

**ART 371-371G HISTORY OF TWENTIETH CENTURY AMERICAN ART (3-0-3)(F).** Beginning with a short survey of American art from the Ashcan School through the Thirties, with concentration on Abstract Expressionism, Pop, Op, and Minimal. Critical writings will be assigned. Advisable to take ART 302 prior to ART 371.

**ART 388-388G 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 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 409-409G STUDIO IN PRINTMAKING (0-6-3)(F/S).** Individual projects in printmaking. 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 slide records of their artwork and other relevant material. PREREQ: Senior standing. BFA candidates only or by PERM/INST.

**ART 411-411G ADVANCED DRAWING STUDIO (0-6-3)(F,S).** Individual problems in drawing. Model fee. May be repeated for credit. PREREQ: ART 311 or ART 312.

**ART 415-415G STUDIO IN PAINTING (0-6-3)(F/S).** Individual problems in painting in any media. Students will participate in one-person senior show projects. May be repeated for credit. PREREQ: ART 315.

**ART 417-417G STUDIO IN PAINTING-WATERCOLOR (0-6-3)(F,S).** Advanced study in selected watercolor and related media. Emphasis on developing individual interests and expressive strengths. Students will participate in one-person senior show projects. May be repeated once for credit. PREREQ: ART 317 or PERM/INST.

**ART 419-419G STUDIO IN METALS (0-6-3)(F/S).** Continued study in materials and methods (advanced) of jewelry making and metalsmithing as they apply to the creative artist and teacher. May be repeated for credit. PREREQ: ART 221, ART 222, ART 307.

**ART 420-420G STUDIO IN FIGURE-PORTRAIT PAINTING (0-6-3)(F/S).** Advanced figure painting with emphasis on personal direction. Students will participate in one-person senior show projects. May be repeated for credit. Model fee. PREREQ: ART 319 or PERM/INST.

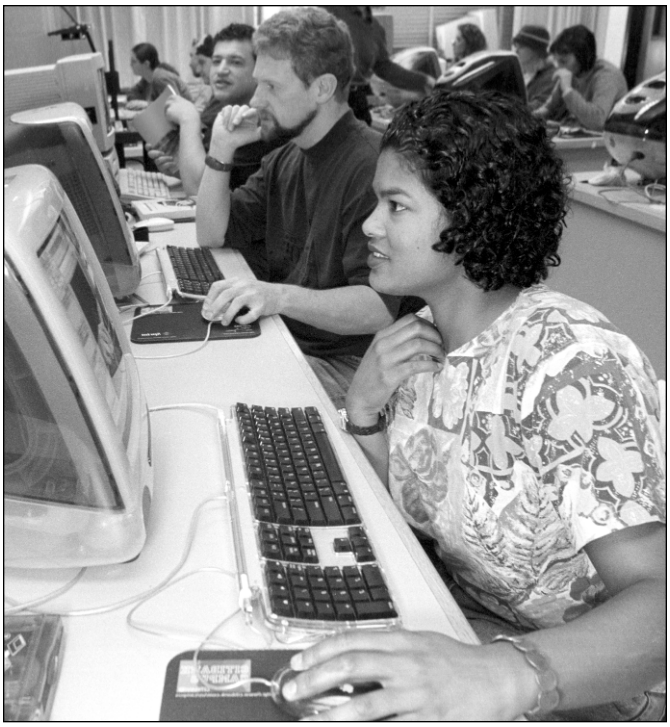
**ART 425-425G STUDIO IN CERAMICS (0-6-3)(F/S).** Advanced study, including individual instruction in clay and glaze materials, fabrication methods, and professional practices. May be repeated twice for credit. PREREQ: ART 325.

**ART 431-431G STUDIO IN SCULPTURE (0-6-3)(F/S).** Individual problems in sculpture. May be repeated for credit. PREREQ: Two of the following four courses: ART 331, ART 332, ART 334, ART 339.

**ART 441-441G CREATIVE PHOTOGRAPHY (2-4-3)(F/S).** Individual problems in black and white photography. Advisable to take ART 251 and ART 341. May be repeated for credit.

**ART 444-444G CREATIVE PHOTOGRAPHY, COLOR PRINTING (2-4-3)(F/S).** Individual problems in color photography. May be repeated for credit. PREREQ: ART 344 or PERM/INST.

**ART 450-450G ART HISTORY PRACTICUM (2-0-2)(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 4 credit hours. (Pass/Fail). PREREQ: 12 credits of art history and PERM/INST.



**ART 451-451G 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: ART 302, ART 371, or PERM/INST.

**ART 452-452G METHODS AND THEORY IN ART HISTORY (3-0-3)(F).** A critical analysis of the historiographical, theoretical, and methodological approaches taken by art historians in their consideration and interpretation of visual culture, past and present. PREREQ: 9 credits of art history, graduate status, or PERM/INST.

**ART 461-461G STUDIO IN ILLUSTRATION (0-6-3)(S).** Continued exploration of illustration as a profession and as an expressive communicative medium. Focus on development of an individual visual voice through advanced interpretive problem-solving. PREREQ: ART 362 and PERM/INST.

**ART 462-462G ADVANCED STUDIO IN ILLUSTRATION (0-6-3)(F).** Exploration of the editorial applications of illustration (for example, book, magazine, visual essay). Focus on the continued development of an individual visual voice through the exploration of sequential imagery. Individually selected media. PREREQ: ART 461 and PERM/INST.

**ART 465 SENIOR PROJECT IN ILLUSTRATION (0-6-3)(S).** Culminating original project for illustration majors, including a formal presentation or exhibition. PREREQ: ART 462 and PERM/INST.

**ART 483-483G 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 488-488G 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 presentional 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.

**ART 498 SENIOR SEMINAR (3-0-3)(F/S).** Required reading and written and oral reports relative to the senior art major's area of interest within the visual arts. PREREQ: Senior status.

### 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 Student Services Office(s): *Boise*: Technical Services Building #1464, Room 111; telephone 208 426-1431; fax 208 426-3155 **OR** *Canyon County Center in Nampa:* 2407 Caldwell Blvd., telephone 208 426-4701, fax 208 426-4748 or e-mail: snaranche@boisestate.edu.

The bachelor of applied science (B.A.S.) degree is a baccalaureate degree designed for applied technology students who possess an associate of applied science (A.A.S.) degree (or equivalent) earned at a regionally accredited institution recognized as reported in the *Accredited Institutions of Post Secondary Education.*

The purpose of the degree is to provide applied technology graduates the opportunity to enhance and expand their general education and technical core competencies. By making this degree available, the Larry G. Selland College of Applied Technology recognizes the dramatic increase in workplace technology and the need to support this technology with broad-based general education and an advanced technical support curriculum. The B.A.S. program completion requirements consist of 64 transfer credits from the A.A.S. degree program, supplemented with 35-37 credits of general education core, 6 credits of English Composition, and 24 credits of approved upper-division academic course work.

## 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 64 credits or equivalent quarter credits.)
- satisfactory completion of the general university requirements (core) and upper-division requirements for the B.A.S. degree AND enrollment in an A.A.S. degree program at Boise State University

## Application Procedures for Admission to the B.A.S. Program

To apply for admission to the B.A.S. program, submit all materials in the checklist below to either of the College Student Services offices noted above:

- official transcript(s) documenting successful completion of an accredited A.A.S. degree (or its equivalent) or an official transcript(s) documenting successful completion of core requirements and upper-division requirements
- Completed "Application for Acceptance into Bachelor of Applied Science Program" form.

## Degree Requirements

**Applied Technology**
**Bachelor of Applied Science**

| Course Number and Title | Credits |
|---|---|
| ENGL 101, 102 English Composition | 6 |
| **Area I — see page 40 for list of approved courses** | |
| Area I core in one field | 3 |
| Area I core in a second field | 3 |
| Area I core in a third field | 3 |
| Area I core in any field | 3 |
| **Area II — see page 40 for list of approved courses** | |
| Area II core in one field | 3 |
| Area II core in a second field | 3 |
| Area II core in a third field | 3 |
| Area II core in any field | 3 |
| **Area III — see page 40 for list of approved courses** | |
| Area III core in mathematics | 3-5 |
| Area III core in a second field | 4 |
| Area III core in any field | 4 |
| **Area II and III electives** | |
| Upper-division courses in **both** of the following disciplines: **social science** (anthropology, communication, economics, geography, history, political science, psychology, social work, sociology, teacher education) and either **natural sciences or mathematics** (biological sciences, chemistry, engineering, mathematics, physical science, physics) | 10 |
| Upper-division courses (Up to 6 credits may come from BASCI 493, BASCI 496, BASCI 494, or BASCI 498) | 24 |
| Technical Education courses | 40 |
| Electives to total 128 credits (Up to three credits may come from KIN-ACT courses) | 11-13 |
| Total | 128 |

To be admitted to the program leading to a 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 53 for a definition of the course-numbering system.**

**BASCI — Bachelor of Applied Science**

**BASCI 293, 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 293 or 493, a student must have attained a cumulative grade- point average of 2.0 or higher. BASCI 293, 493 may be repeated for a maximum of 6 credits. (Pass/Fail). PREREQ: PERM/INST/ CHAIR.

**BASCI 294, 494 BACHELOR OF APPLIED SCIENCE CONFERENCE AND/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. May be repeated for a maximum of 6 credits. (Pass/Fail.)

**BASCI 296 BACHELOR OF APPLIED SCIENCE INDEPENDENT STUDY (Variable Credit).** Independent study for technical competency upgrade, applied research project, or specialized advanced skill experience or study. May be repeated for a maximum of six credits. (Pass/Fail.) PREREQ: 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 BSU, 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).** Designed to provide an opportunity for study of a particular area in a technical field at an advanced level. The topics offered will be selected on the basis of their timely interest to technical fields and a particular expertise of the faculty or related industry. May be repeated for a maximum of 6 credits. (Pass/Fail.) PREREQ: Upper-division standing and PERM/INST/CHAIR.

# Department of Biology

Science/Nursing Building, Room 223 Telephone 208 426-3262
http://www.boisestate.edu/biology/ Fax 208 426-4267
e-mail: kspelman@boisestate.edu or jmunger@boisestate.edu

*Chair and Professor:* James C. Munger. *Professors:* Bechard, Belthoff, Centanni, Dufty, McCloskey, Rychert, Smith, Wicklow-Howard. *Associate Professor:* Koetsier, Long, Novak. *Assistant Professors:* Jorcyk, Oxford, Robertson, Rohn, Serpe.

## Degrees Offered

- B.S. and Minor in Biology
- B.S. in Biology, Botany 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 Program
- Minor in Environmental Studies

## Department Statement

The bachelor's degree in biology provides students with the intellectual and technical skills to succeed in a career in biology or medicine. Students gain an understanding of living organisms, of how these organisms interact with their environment, and of the process of biological investigation. The biology curriculum provides students with a knowledge base in molecular, cellular, organismal, ecological, and evolutionary biology, as well as allowing students to emphasize their areas of interest.

Acquisition of experience outside the classroom is often very important in the pursuit of biological careers. To gain such experience, students may participate in independent study projects, either assisting faculty with their research or developing student-initiated projects with faculty guidance. Students may also pursue internships with governmental agencies, local businesses, hospitals, and other professionals in the area.

The Department of Biology also offers a B.S. in Biology, Secondary Education for students who wish to 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 two years of course work at Boise State University before transferring to a professional program at other institutions. Alternatively, some of our students have successfully entered wildlife and fisheries positions with a Biology degree from BSU.

Pre-Medical, Pre-Dental, Pre-Veterinary, Pre-Chiropractic, and Pre-Physician Assistant students who graduate with a degree in biology have in general been highly successful at gaining admission to excellent professional schools. Biology graduates have also been successful at gaining admission to M.S. and Ph.D. programs in the biological sciences throughout the United States. Other students have begun working in their field immediately after completing their B.S. degree. Finally, many graduates find that the skills developed and knowledge acquired as biology students benefit them in non-biological fields.

**NEW BIOLOGY STUDENTS** should take the appropriate mathematics course (determined by placement exam) in their first semester at BSU: mathematics is a prerequisite for chemistry, and chemistry is a prerequisite for several biology courses. All students are urged to meet each semester with their advisors regarding class scheduling and career plans.

## Degree Requirements

**Biology**
**Bachelor of Science**

| Course Number and Title | Credits |
|---|---|
| ENGL 101, 102 English Composition | 6 |
| **Area I — see page 40 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 40 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 a third field | 3 |
| Area II core course in any field | 3 |
| 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. | |
| Biology core courses | |
| BIOL 191 General Biology I | 4 |
| BIOL 192 General Biology II | 4 |
| *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 |
| *Biology 198 is not required, but is recommended for new majors, and will count as general elective credit. | |
| CHEM 111, 112 College Chemistry | 9 |
| CHEM 317, 319 Organic Chemistry and Lab | 5 |
| One or more of these communications courses: | 3 |
| COMM 112 Reasoned Discourse **OR** | |
| COMM 231 Public Speaking **OR** | |
| ENGL 202 Technical Communication | |
| COMM 112 can be counted as fulfilling part of Area II core requirements. | |
| MATH 147 Precalculus | 5 |
| MATH 160 Survey of Calculus **OR** | 4-5 |
| *MATH 170, 171 Calculus I and Lab | |
| MATH 254 Applied Statistics with the Computer | 4 |
| *MATH 170, 171 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 (with no 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 | |
| Morphology (one course) | 4 |
| BOT 302 Plant Anatomy and Microtechnique | |
| BOT 311 Plant Morphology | |
| BOT 330 Mycology | |
| BOT 441 Plant Developmental Biology | |
| ZOOL 301 Comparative Vertebrate Anatomy | |
| ZOOL 351 Vertebrate Embryology | |
| ZOOL 400 Vertebrate Histology | |
| Upper-division BIOL, BOT, or ZOOL electives to total 42 biology electives* | 13 |
| Upper-division elective to total 40 credits | 1 |
| Electives to total 128 credits** | 24-25 |

*— continued —*

| *Biology (continued)* | |
|---|---|
| **Botany Emphasis** | |
| BOT 302 Plant Anatomy and Microtechnique **OR**<br>BOT 311 Plant Morphology | 4 |
| BOT 305 Systematic Botany **OR**<br>BOT 330 Mycology | 4 |
| 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 | 1 |
| Electives to total 128 credits* | 24-25* |
| **Ecology Emphasis** | |
| Ecology (3 or more courses)<br>BIOL 415 Applied and Environmental Microbiology<br>BIOL 422 Conservation Biology<br>BIOL 426 Insect Ecology<br>BIOL 427 Stream Ecology<br>BIOL 433 Behavioral Ecology<br>BOT 424 Plant Community Ecology<br>(or acceptable alternatives) | 10-12 |
| Physiology (one or more courses):<br>BOT 401 Plant Physiology **OR**<br>ZOOL 409 General and Comparative Physiology | 4 |
| Taxonomy-intensive course<br>BIOL 412 General Parasitology<br>BOT 305 Systematic Botany<br>BOT 330 Mycology<br>ZOOL 305 Entomology<br>ZOOL 341 Ornithology<br>ZOOL 355 Vertebrate Natural History<br>ZOOL 421 Mammalogy<br>ZOOL 425 Aquatic Entomology | 3-4 |
| Upper-division BIOL, BOT, or ZOOL electives to total 42 biology credits* | 1-4 |
| PHYS 111, 112 General Physics | 8 |
| Upper-division elective to total 40 credits | 1 |
| Electives to total 128 credits** | 16-17 |
| **Environmental Biology Emphasis** | |
| BIOL 422 Conservation Biology | 3 |
| BOT 401 Plant Physiology **OR**<br>ZOOL 409 General and Comparative Physiology | 4 |
| Ecology (Two or more courses):<br>BIOL 415 Applied and Environmental Microbiology<br>BIOL 426 Insect Ecology<br>BIOL 427 Stream Ecology<br>BOT 424 Plant Community Ecology | 8 |
| ENVSTD 311 Global Environment | 3 |
| GEOL 101 Physical Geology | 4 |
| POLS 320 American Policy Process **OR**<br>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:<br>(students should take more of these courses if feasible; these courses may not be counted in another major or minor)<br>CE 320-321 Principles of Environmental Engineering and Lab<br>ECON 333 Natural Resource Economics<br>ENVHLTH 310 Water Supply and Water Quality Management<br>ENVHLTH 380 Air Quality Management<br>ENVHLTH 417 Principles of Toxicology<br>ENVHLTH 442 Hazardous Waste Management<br>GEOG 360 Introduction to Geographical Information Systems<br>GEOG 361 Remote Sensing<br>GEOL 305 Soil Mechanics Laboratory<br>GEOL 370 Environmental Geology<br>GEOL 412 Hydrogeology | 6 |

*— continued —*

| *Biology (continued)* | |
|---|---|
| GEOL 451 Principles of Soil Science<br>POLS 303 Public Administration<br>POLS 320 American Policy Process (if not used above)<br>POLS 340 Environmental Politics (if not used above) | |
| Electives to total 128 credits** | 9-10 |
| **Human Biology Emphasis** | |
| PSYC 101 General Psychology (counts as Area II core) | 3 |
| BIOL 205 Microbiology **OR**<br>BIOL 303 Bacteriology | 4 |
| ZOOL 401 Human Physiology | 4 |
| Morphology (one or more courses):<br>ZOOL 301 Comparative Vertebrate Anatomy<br>ZOOL 351 Vertebrate Embryology<br>ZOOL 400 Vertebrate Histology | 4 |
| Two or more additional courses chosen from the following for a minimum of 8 credits:<br>BIOL 310 Pathogenic Bacteriology<br>BIOL 331 Pharmacology<br>BIOL 344 Molecular and Cell Biology Laboratory<br>BIOL 412 Parasitology<br>BIOL 420 Immunology<br>BIOL 441 Molecular Biology of Cancer<br>BIOL 442 Molecular Neurobiology<br>ZOOL 301 Comparative Vertebrate Anatomy<br>ZOOL 351 Vertebrate Embryology<br>ZOOL 400 Vertebrate Histology | 8 |
| Upper-division BIOL, BOT, or ZOOL electives to total 42 biology credits* | 1 |
| Two or more of the following courses including at least one PSYC course<br>BIOL 300 Biology of Aging<br>PSYC 301 Abnormal Psychology<br>PSYC 331 Psychology of Health<br>PSYC 335 Physiological Psychology<br>HLTHST 300 Pathophysiology<br>HLTHST 480 Epidemiology | 6-7 |
| Electives to total 128 credits**<br>Students should consult their advisors for recommendations regarding electives. Professional programs may require BIOL 227, 228; CHEM 319, 320, 431, 432, 433; PHYS 111, 112, or others | 18-20 |
| **Microbiology Emphasis** | |
| BIOL 303 General Bacteriology | 4 |
| BIOL 415 Applied and Environmental Microbiology **OR**<br>BIOL 310 Pathogenic Bacteriology | 4 |
| Two or more additional courses chosen from the following for a minimum of 8 credits:<br>BIOL 310 Pathogenic Bacteriology<br>BIOL 344 Molecular and Cell Biology Laboratory<br>BIOL 412 General Parasitology<br>BIOL 415 Applied and Environmental Microbiology<br>BIOL 420 Immunology<br>BOT 330 Mycology | 8 |
| Upper-division BIOL, BOT, or ZOOL electives to total 42 biology credits* | 5 |
| CHEM 431, 432 Biochemistry I and Biochemistry Lab | 4 |
| Electives to total 128 credits**<br>Recommended: CHEM 433 Biochemistry II,HLTHST 480 Epidemiology, PHYS 111, 112 General Physics. | 21-22 |
| **Molecular and Cell Biology Emphasis** | |
| BIOL 344 Molecular and Cell Biology Laboratory<br>BIOL 465 Advanced Topics in Molecular Biology Techniques | 2<br>1 |
| Additional courses chosen from the following:<br>BIOL 303 General Bacteriology<br>BIOL 420 Immunology<br>BIOL 441 Molecular Biology of Cancer<br>BIOL 442 Molecular Neurobiology<br>BIOL 466 Advanced Topics in the Biology of Cancer | 18 |

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| *Biology (continued)* | |
|---|---|
| BOT 401 Plant Physiology<br>BOT 441 Plant Developmental Biology<br>ZOOL 351 Vertebrate Embryology<br>ZOOL 400 Vertebrate Histology<br>ZOOL 401 Human Physiology | |
| CHEM 318, 320 Organic Chemistry and Lab (second semester)<br>CHEM 431, 432, 433 Biochemistry I, Lab, and II | 5<br>7 |
| PHYS 111, 112 General Physics | 8 |
| Electives to total 128 credits** | 5-6 |
| **Zoology Emphasis** | |
| Physiology<br>ZOOL 401 Human Physiology **OR**<br>ZOOL 409 General and Comparative Physiology | 4 |
| Morphology (one course):<br>ZOOL 301 Comparative Vertebrate Anatomy<br>ZOOL 351 Vertebrate Embryology<br>ZOOL 400 Vertebrate Histology | 4 |
| 8 or more additional credits of upper-division zoology | 8 |
| Upper-division BIOL, BOT, or ZOOL electives to total 42 biology credits* | 5 |
| Upper-division elective to total 40 credits | 1 |
| Electives to total 128 credits** | 24-25 |
| Total | 128 |

*Workshops may not be counted towards upper-division biology credit; A maximum of 2 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 graduate school or professional school, 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.

## Biology Minor

| Course Number and Title | Credits |
|---|---|
| BIOL 191 General Biology I<br>BIOL 192 General Biology II<br>BIOL 205 Microbiology | 4<br>4<br>4 |
| Upper division biology courses | 11 |
| Total | 23 |

## Biology, Secondary Education Bachelor of Science

| Course Number and Title | Credits |
|---|---|
| ENGL 101, 102 English Composition | 6 |
| **Area I — see page 40 for list of approved courses** | |
| Area I core course in one field<br>Area I core course in a second field<br>Area I core course in a third field<br>Area I core course in any field | 3<br>3<br>3<br>3 |
| **Area II — see page 40 for list of approved courses** | |
| COMM 101 Fundamentals of Speech Communication<br>EDUC 201 Foundations of Education<br>Area II core course in a third field<br>Area II core course in any field<br>COMM 112 is an approved Area II course and is an option below | 3<br>3<br>3<br>3 |
| **Area III** | |
| Area III requirements are automatically met by specific courses included in the major requirements below. | |
| Biology core courses<br>BIOL 191 General Biology I<br>BIOL 192 General Biology II<br>*BIOL 198 Perspectives in the Biological Sciences<br>BIOL 301 Cell Biology | <br>4<br>4<br>(1)<br>3 |

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| *Biology, Secondary Education (continued)* | |
|---|---|
| BIOL 323 Ecology<br>BIOL 343 Genetics Lecture<br>BIOL 401 Organic Evolution<br>*Biology 198 is not required, but is recommended for new majors | 4<br>3<br>3 |
| CHEM 111, 112 College Chemistry<br>CHEM 317, 319 Organic Chemistry and Lab | 9<br>5 |
| EDUC 202 Educational Technology – Classroom Applications<br>EDUC 301 Teaching Experience I<br>EDUC 302 Learning and Instruction<br>(EDUC 301, 302, and 350 must be taken together)<br>EDUC 350 Teaching Students with Exceptional Needs at the Secondary Level<br>EDUC 401 Teaching Experience II<br>EDUC 402 Content Literacy for Secondary Students<br>(EDUC 401, 402, and 404 must be taken together)<br>EDUC 404 Teaching Secondary Science<br>Secondary School Student Teaching<br>NOTE: Completion of all requirements for graduation with a secondary education option may require more than 128 credit hours. See "Teacher Education" for more information. | 3<br>1<br>4<br><br>3<br><br>2<br>3<br><br>3<br>16 |
| MATH 147 Precalculus<br>MATH 160 Survey of Calculus **OR**<br>MATH 170, 171 Calculus I and Lab<br>MATH 254 Applied Statistics with the Computer | 5<br>4-5<br><br>4 |
| One of the following communication courses:<br>COMM 112 Reasoned Discourse **OR**<br>COMM 231 Public Speaking **OR**<br>ENGL 202 Technical Communication<br>COMM 112 can be counted as fulfilling part of Area II core requirements. | 3 |
| **Major Endorsement in Biology** | |
| BIOL 205 Microbiology | 4 |
| Physiology (one courses):<br>BOT 401 Plant Physiology<br>ZOOL 401 Human Physiology<br>ZOOL 409 General and Comparative Physiology | 4 |
| Taxonomy-intensive courses (one courses)<br>BIOL 412 General Parasitology<br>BOT 305 Systematic Botany<br>BOT 330 Mycology<br>ZOOL 305 Entomology<br>ZOOL 341 Ornithology<br>ZOOL 355 Vertebrate Natural History<br>ZOOL 421 Mammalogy<br>ZOOL 425 Aquatic Entomology | 3-4 |
| Upper-division biology electives to total 42 biology credits* | 9-10 |
| **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*<br>This represents a minimum: students should take more biology courses if possible, including BIOL 205 Microbiology. | 9 |
| Minor endorsement in a second field | 20-32 |
| Total | 137-157 |

*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.

## Biology, Secondary Education Minor Endorsement

| Course Number and Title | Credits |
|---|---|
| BIOL 191 General Biology I<br>BIOL 192 General Biology II<br>BIOL 205 Microbiology | 4<br>4<br>4 |
| One upper division ZOOL course and one upper-division BOT course to total a minimum of 20 credits.<br>This represents a minimum; students should take more biology courses if possible. | 8 |
| Total | 20 |

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; such a degree provides a solid preparation for master's degree programs in wildlife and fisheries biology.

**Pre-Forestry and Pre-Wildlife Management**

| Course Number and Title | Credits |
|---|---|
| ENGL 101, 102 English Composition<br>ENGL 202 Technical Communication | 6<br>3 |
| Area I core courses | 6 |
| COMM 101 Fundamentals of Speech<br>ECON 202 Principles of Microeconomics<br>Area II core course | 3<br>3<br>3 |
| CHEM 101, 102 Essentials of Chemistry | 8 |
| MATH 160 Survey of Calculus **OR**<br>MATH 170 Calculus I<br>MATH 254 Applied Statistics with Computers | 4<br><br>4 |
| BIOL 191-192 General Biology I-II<br>BIOL 323 Ecology | 8<br>4 |
| CIS 104 Operating Systems and Word Processing Topics **AND**<br>CIS 105 Spreadsheet Topics **AND**<br>CIS 106 Database Topics | 1<br>1<br>1 |
| Total | 60 |

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, GEOL 101, 305, 451, MKTG 301, PHYS 111, 112, ZOOL 301, 341, 409, 421, 434. In many cases, it is possible to attend BSU for three years and complete the program of study at the University of Idaho in two additional years. Consult the Biology Department or The University of Idaho for information as to which courses will apply to the field you wish to enter.

# Course Offerings

**See page 53 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 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, cellular physiology, genetics, development, evolution, and the biology of viruses and bacteria. Recommended: Solid preparation in high school biology, chemistry, and mathematics or BIOL 100.

**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 protists, fungi, plants, and animals. PREREQ: BIOL 191 or PERM/INST.

**BIOL 198 PERSPECTIVES IN THE BIOLOGICAL SCIENCES (1-0-1)(F).** This course is 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 200 MAN AND THE ENVIRONMENT (3-0-3)(F/S).** The impact of biological, economic, and social factors on man's environment are discussed. Participants become aware of important issues and factors involved in environmental decision-making.

**BIOL 205 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. PREREQ: CHEM 101 or CHEM 111, and BIOL 227-228 or BIOL 191-192.

**BIOL 227-228 HUMAN ANATOMY AND PHYSIOLOGY (3-3-4)(Area III)(Formerly ZOOL 111, ZOOL 112).** A two-semester sequence for students whose career objectives require a thorough study of human anatomy and physiology. ZOOL 107 cannot be substituted for either semester of this sequence. One semester of this sequence cannot be substituted for ZOOL 107. Prior or concurrent enrollment in CHEM 101 is recommended.

**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)(Offered even-numbered 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 ZOOL 107 or BIOL 227-228.

**BIOL 301 CELL BIOLOGY (3-0-3)(S).** Structure and function of prokaryotic cells, cellular energetics and metabolism, mitochondria and chloroplasts, cell and organelle genetics, chromosomal aberrations, and medical applications of cell biology. PREREQ: One year of college biology and CHEM 317.

**BIOL 303 GENERAL BACTERIOLOGY (2-6-4)(F).** An examination of concepts, problems, and techniques in bacterial and archael biology. Included are discussions of structure, metabolism, control, genetics, taxonomy, pathogenicity, ecology, and evolution. Laboratory topics include growth and physiology, microbial genetics, bacteriophages, and biotechnology.. PREREQ: CHEM 317 and BIOL 301 or PERM/INST.

**BIOL 310-310G PATHOGENIC BACTERIOLOGY (2-6-4)(S)(Offered odd-numbered 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 205 or BIOL 303 or PERM/INST.

**BIOL 323-323G 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 or PERM/INST.

**BIOL 331-331G 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 CHEM 317-319.

**BIOL 343 GENETICS LECTURE (3-0-3)(F).** A study of the principles of genetics as they relate to living organisms. PREREQ: BIOL 301 or PERM/INST.

**BIOL 344-344G MOLECULAR AND CELL BIOLOGY LABORATORY (0-6-2)(F).** A course that explores 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. Periodic reports will be submitted. Some laboratory time will be arranged. PREREQ/COREQ: BIOL 343.

**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 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 205 or BIOL 303, and CHEM 317-319, or PERM/INST.

**BIOL 420-420G IMMUNOLOGY (3-0-3)(S).** A survey of the principles of immunology, host defense systems, the immune response, immune disorders, serology, and other related topics. PREREQ: BIOL 205 or BIOL 303 or PERM/INST.

**BIOL 422 CONSERVATION BIOLOGY (3-0-3)(S)(Offered odd-numbered 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 426 INSECT ECOLOGY (3-0-3) (S)(Offered even-numbered 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)(Offered odd-numbered 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 433 BEHAVIORAL ECOLOGY (3-0-3)(F)(Offered odd-numbered years).** This course 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 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 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 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 (2-0-2) (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 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. Topics will include Southern-, western-, and northern-blot analysis; sequencing,;cloning; transfection and transduction; immunoprecipitation, and other molecular, cellular, and genetic techniques. PREREQ: BIOL 343 and PERM/INST.

**BIOL 466 ADVANCED TOPICS IN THE BIOLOGY OF CANCER (1-0-1)(S).** Discussion of current research in the field of cancer biology, with emphasis on prostate and mammary cancer. Students will lead discussions and present articles, as well as monitor recent literature on cancer. Topics will include tumor suppressor genes, cell cycle regulation, apoptosis, signal transduction, and other cancer-related systems. May be repeated once for credit. Previous enrollment in BIOL 465 is recommended. PREREQ: BIOL 343 and PERM/INST.

**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**

**Upper Division**

**BOT 302-302G PLANT ANATOMY AND MICROTECHNIQUE (3-3-4)(S) (Offered odd-numbered 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 and BIOL 301 or PERM/INST.

**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 MORPHOLOGY (3-3-4)(F).** 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)(Offered odd-numbered 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 CHEM 317 or PERM/INST.

**BOT 424 PLANT COMMUNITY ECOLOGY (3-3-4)(F)(Offered even-numbered years).** A study of the properties, structure, method of analysis, classification, and dynamic nature of plant communities. Topics for discussion will include the strengths and weaknesses of various sampling techniques, the role of disturbance events and succession on community structure, and the role of biological interactions as factors influencing the assembly of communities. Laboratory work will emphasize vegetation sampling methods and habitat type classification for plant communities in this region as well as methods of analyzing and reporting this data. PREREQ: BIOL 323 or PERM/INST.

**BOT 441 PLANT DEVELOPMENTAL BIOLOGY (3-3-4)(S)(Offered even-numbered years).** A description of plant development from a molecular and cellular perspective. Topics discussed include gene expression and cell signalling 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.

**FOREST — FORESTRY**

**Lower Division**

**FOREST 101 GENERAL FORESTRY (2-0-2)(S).** A survey of forestry, timber management and economics, and the propagation of important trees of the United States.

**ZOOL — ZOOLOGY**

**Lower Division**

**ZOOL 107 CONCEPTS OF HUMAN ANATOMY AND PHYSIOLOGY (3-2-4)(S) (Area III).** Survey of human structure and function with emphasis on regulatory mechanisms of the body. This is a terminal course and does not satisfy allied health program requirements.

**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. Laboratory includes field trips to collect and identify local species. Insect collection required. Students should meet with instructor the spring or summer before enrolling. 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)(Offered odd-numbered 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 351-351G VERTEBRATE EMBRYOLOGY (2-6-4)(S)(Offered odd-numbered years).** Germ cell development, comparative patterns of cleavage and gastrulation, neurulation and induction, and development of human organ systems. Laboratory studies of frog, chick, and pig development. PREREQ: BIOL 191-192 or PERM/INST.

**ZOOL 355-355G 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 361 MICROTECHNIQUE (1-6-3)(S)(Alternate years).** Theory and practical application of procedures involving fixation, staining, preparation of paraffin sections and whole mounts, and histochemical techniques. PREREQ: BIOL 191-192 or PERM/INST.

**ZOOL 400-400G VERTEBRATE HISTOLOGY (2-6-4)(S)(Offered even-numbered years).** Microscopic anatomy of cells, tissues, and organ systems of vertebrates. Major emphasis will be on mammalian systems. ZOOL 301 or Z351 are recommended prior to enrollment. PREREQ: BIOL 191-192 or PERM/INST.

**ZOOL 401-401G HUMAN PHYSIOLOGY (3-3-4)(S).** Functional aspects of human tissues and organ systems with emphasis on regulatory and homeostatic mechanisms. PREREQ: one year of college biology and CHEM 317 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: CHEM 317 and BIOL 191-192 or PERM/INST.

**ZOOL 421-421G MAMMALOGY (2-3-3)(S)(Offered even-numbered 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)(Offered even-numbered 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)(Offered even-numbered years).** This course 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 Biology

# Minor in Business

Business Building, Room 117 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 University 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<br>ACCT 206 Introduction to Managerial Accounting | 3<br>3 |
| BUSSTAT 207 Statistical Techniques for Decision Making I<br>Upon approval through the College of Business and Economics Student Services Center, you may substitute a statistical techniques class required in your major. | 3 |
| ECON 201 Principles of Macroeconomics<br>ECON 202 Principles of Microeconomics | 3<br>3 |
| GENBUS 202 The Legal Environment of Business | 3 |
| Upper-division business courses<br>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 Management, General — see Department of Management

# Canadian Studies Minor

Hemingway Western Studies Center, Room 55 Telephone 208 426-3408
Fax 208 426-4329

*Contact:* Director: T. Virginia Cox

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 101 Canada: Land and People<br>CANSTD 102 Contemporary Canada | 3<br>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 Issues in Cultural Diversity, ANTH 307 Indians of North America, ANTH 312 Archaeology of North America, COMM 300 Communication Issues, Industries and Inquiry in Canada, CANSTD Special Topics and Workshop courses in Canadian Studies, CJA 452 Comparative Canadian Justice, FREN 202 Intermediate French, FREN 485 The Francophone World Today, POLS 327 Canadian Politics. | |

## CANSTD — Canadian Studies

**CANSTD 101 CANADA: LAND AND PEOPLE (3-0-3)(F)(Alternate odd-numbered years.)** Cultural history of Canada using an interdisciplinary approach to geography, anthropology, history and conflict of cultures, political economy and perspectives of First Nations people. Focus on changing forces of Canadian identity internally and Canada's historical and contemporary role in the world community. Open to all students. Required of Canadian Studies Minors.

**CANSTD 102 CONTEMPORARY CANADA (3-0-3)(S)(Alternate Even Years).** An introductory, interdisciplinary survey focused on issues of contemporary Canadian society as they relate to the concerns of North America at large. Topics discussed will include: provincial/national relationships, Canadian economy, social issues, environmental policies, immigration, cultural diversity, influence of founding nations (France and Britain), and Canada and the world community. Open to all students. Required of Canadian Studies Minors.

# Department of Chemistry

Science/Nursing Building, Room 317 Telephone 208 426-3963
http://www.boisestate.edu/chem Fax 208 426-3027
e-mail: kkillma@boisestate.edu

*Chair and Professor:* Martin Schimpf. *Professors:* Banks, Carter, Ellis, LeMaster, Matjeka, Mercer. *Associate Professors:* Bammel, Russell. *Assistant Professors:* Charlier, Shadle.

## Degrees Offered

- B.S. in Chemistry, Biochemistry Emphasis
- B.S. in Chemistry, General Emphasis
- B.S. in Chemistry, Professional Emphasis
- B.S. in Chemistry, Secondary Education
- Minor in Chemistry

## Department Statement

The chemistry department's goal 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, a BSU graduate with a major 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 University 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 chemistry department 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 University offers three emphases in the bachelor of science degree in chemistry. The general emphasis prepares students for employment as chemists or for admission to medical school. The professional emphasis, which is certified by the American Chemical Society, includes additional requirements that prepares students for a graduate program in chemistry, including linear algebra and differential equations. The biochemistry emphasis prepares students for admission to medical or dental school or for employment in technical fields requiring a strong background in chemistry, with knowledge of theories and techniques in genetics and molecular biology. In addition to a chemistry core of general, analytical, organic, inorganic and physical

chemistry, requirements of the biochemistry emphasis include zoology, cell biology, and genetics. All three emphases require a full sequence of calculus and one year of physics.

## Degree Requirements

### Chemistry
### Bachelor of Science

| Course Number and Title | Credits |
|---|---|
| ENGL 101, 102 English Composition | 6 |
| **Area I — see page 40 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 40 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, 112, College Chemistry | 9 |
| CHEM 211, 212 Analytical Chemistry I and Lab | 5 |
| CHEM 317, 318, 319, 320 Organic Chemistry and Labs | 10 |
| CHEM 321, 322 Physical Chemistry | 6 |
| CHEM 380 Chemical Literature | 2 |
| CHEM 440 Spectrometric Identification | 2 |
| CHEM 495 Directed Research in Chemistry | 2 |
| CHEM 498 Chemistry Seminar | 1 |
| MATH 170, 171 Calculus I and Lab | 5 |
| MATH 175 Calculus II | 4 |
| MATH 275 Multivariable and Vector Calculus | 4 |
| PHYS 211, 211L, 212, 212L Physics and Labs | 10 |
| **Biochemistry Emphasis** | |
| BIOL 191 General Biology I | 4 |
| BIOL 301 Cell Biology | 3 |
| BIOL 343 Genetics | 3 |
| CHEM 431, 432, 433 Biochemistry and Lab | 7 |
| CHEM 441 Spectrometric Identification Lab | 1 |
| Upper-division electives to total 40 credits | 3 |
| Electives to total 128 credits | 17 |
| Total | 128 |
| **General Emphasis** | |
| CHEM 323, 324 Physical Chemistry and Labs | 5 |
| CHEM 401 Advanced Inorganic Chemistry | 3 |
| CHEM 411 Analytical Chemistry II | 4 |
| CHEM 443 Advanced Chemical Preparations Laboratory | 2 |
| Upper-division electives to total 40 credits | 4 |
| Electives to total 128 credits | 20 |
| Total | 128 |
| **Professional Emphasis** | |
| CHEM 323, 324 Physical Chemistry and Labs | 5 |
| CHEM 401 Advanced Inorganic Chemistry | 3 |
| CHEM 411 Analytical Chemistry II | 4 |
| CHEM 441 Spectrometric Identification Lab | 1 |
| CHEM 443 Advanced Chemical Preparations Laboratory | 2 |
| MATH 333 Differential Equations with Matrix Theory | 4 |
| Electives to total 128 credits | 19 |
| 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, 112 College Chemistry | 9 |
| CHEM 211, 212 Analytical Chemistry I and Lab | 5 |
| CHEM 317, 318, 319 Organic Chemistry and Lab | 8 |
| Total | 22 |

### Chemistry, Secondary Education
### Bachelor of Science

| Course Number and Title | Credits |
|---|---|
| ENGL 101, 102 English Composition | 6 |
| **Area I — see page 40 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 40 for list of approved courses** | |
| EDUC 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, 112 College Chemistry | 9 |
| CHEM 211, 212 Analytical Chemistry I and Lab | 5 |
| CHEM 317, 318, 319, 320 Organic Chemistry and Labs | 10 |
| CHEM 321, 322, 323, 324 Physical Chemistry and Labs | 10 |
| CHEM 380 Chemical Literature | 2 |
| CHEM 498 Chemistry Seminar | 1 |
| Additional upper-division chemistry courses | 3-4 |
| EDUC 202 Educational Technology – Classroom Applications | 3 |
| EDUC 301 Teaching: Experience I | 1 |
| EDUC 302 Learning and Instruction | 4 |
| EDUC 350 Teaching Students with Exceptional Needs at the Secondary Level | 3 |
| EDUC 401 Professional Year - Teaching Experience II | 2 |
| EDUC 402 Content Literacy for Secondary Students | 3 |
| EDUC 404 Teaching Secondary Science | 3 |
| Teaching Experience III/IV | 16 |
| MATH 170, 171 Calculus I and Lab | 5 |
| MATH 175 Calculus II | 4 |
| MATH 275 Multivariable and Vector Calculus | 4 |
| PHYS 211, 211L Mechanics, Waves, and Heat and Lab | 5 |
| PHYS 212, 212L Electricity, Magnetism, and Optics and Lab | 5 |
| Total | 136-137 |

NOTES: Completion of all requirements for graduation with a secondary education option may require more than 128 credit hours. See "Teacher Education" for more information. Students who do not have a chemistry degree may be certified to teach chemistry in secondary schools. See "Teacher Education," in which minor certification endorsements for teaching areas are listed.

## Course Offerings

**See page 53 for a definition of the course-numbering system.**

**CHEM — CHEMISTRY**

CHEMISTRY LABORATORY FEE: A $10 laboratory fee per course is charged to all students enrolling in a chemistry laboratory.

**Lower Division**

**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 (3-3-4)(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: M 025 or satisfactory placement score.

**CHEM 102 ESSENTIALS OF CHEMISTRY (3-3-4)(Area III).** A continuation of CHEM 101 to include basic concepts of biochemistry. PREREQ: CHEM 101.

**CHEM 111 COLLEGE CHEMISTRY (3-3-4)(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, physical states, and solutions. Previous chemistry course in high school or college is recommended. PREREQ: MATH 143 or MATH 147 or successful completion of the CHEM 111 Math exam.

**CHEM 112 COLLEGE CHEMISTRY (4-3-5)(Area III).** A continuation of CHEM 111 to include equilibrium, redox, and complexions. PREREQ: CHEM 111.

**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, MATH 143 and MATH 144 or MATH 147 or equivalent.

**CHEM 212 ANALYTICAL CHEMISTRY I LABORATORY (1-3-2)(S).** Practical application of analytical techniques through analysis of unknown samples using gravimetric, volumetric, and instrumental methods. Course includes one 3-hour laboratory and one 1-hour recitation per week. PREREQ/COREQ: CHEM 211.

**CHEM 286/386 DIRECTED READING IN CHEMISTRY (VARIABLE CREDIT).** An individual study of a topic in chemistry arranged by the student in conjunction with a supervising member of the chemistry faculty.

**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 317 ORGANIC CHEMISTRY LECTURE (3-0-3)(F).** An overview of organic chemistry covering the fundamental principles of nomenclature, reactions, synthesis, mechanisms, stereochemistry, proteins, and carbohydrates. Will fulfill the requirements for an elementary organic course and partially fulfill the requirements for a more rigorous course. PREREQ: CHEM 111-112. COREQ: CHEM 319.

**CHEM 318 ORGANIC CHEMISTRY LECTURE (3-0-3)(S).** An in-depth study of organic reaction mechanisms, reaction theory, and advanced organic synthesis. PREREQ: CHEM 317, 319.

**CHEM 319 ORGANIC CHEMISTRY LABORATORY (1-3-2)(F).** Basic organic laboratory techniques and simple organic syntheses. One three-hour laboratory and one hour of recitation per week. COREQ: CHEM 317.

**CHEM 320 ORGANIC CHEMISTRY LABORATORY (1-3-2)(S).** More advanced organic laboratory techniques, syntheses, classical organic qualitative analysis, and an introduction to spectroscopic methods. Three hours of laboratory and one hour of recitation per week. PREREQ: CHEM 319. COREQ/PREREQ: CHEM 318.

**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: PHYS 212 and 212L or PERM/INST. MATH 275 or equivalent; CHEM 317.

**CHEM 323, 324 PHYSICAL CHEMISTRY LABORATORY (0-6-2)(F/S).** Methods of physicochemical measurement, computerized data analysis, and technical report writing. This course illustrates the topics covered in CHEM 321 and 322. The fall semester includes computer interfacing for equipment control and data collection, integrating computational chemistry with spectroscopy experiments, and laser spectroscopy. The spring semester includes experiments in kinetics and thermodynamics, and a student project. A year's sequence (fall and spring). PREREQ: CHEM 211 and CHEM 212 or PERM/INST; CHEM 320. PREREQ/COREQ: CHEM 321, 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 380 CHEMICAL LITERATURE (2-0-2)(S).** An comprehensive survey of the chemical literature, including the use of chemical abstracts, computer searching, and writing reports in accepted format. PREREQ: CHEM 317.

**CHEM 401-401G ADVANCED INORGANIC CHEMISTRY (3-0-3)(F).** Atomic structure, molecular structure using valence bond and molecular orbital theories, elementary group theory, transition metal coordination chemistry, acid/base theory. PREREQ: CHEM 322 or PERM/INST.

**CHEM 411-411G ANALYTICAL CHEMISTRY II (2-6-4)(F).** Advanced analytical methodology with a focus on modern chemical instrumentation, signal processing, and error analysis. PREREQ: CHEM 212 and CHEM 322.

**CHEM 422 ADVANCED TOPICS IN CHEMISTRY (3-0-3)(Offered on demand.)** Selected advanced topics from chemistry such as mass spectrometry, nuclear magnetic resonance spectroscopy, radiochemistry, environmental chemistry, and polymer chemistry. Students seeking graduate credit will be assigned additional work, including one or more term papers. 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 317.

**CHEM 432-432G BIOCHEMISTRY LABORATORY (0-3-1)(F/S).** Identification, isolation, and reactions of biologically important compounds. PREREQ or COREQ: 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 (2-0-2)(S).** Identification of compounds using modern spectrometric techniques. PREREQ: CHEM 318 and CHEM 321.

**CHEM 441-441G SPECTROMETRIC IDENTIFICATION LABORATORY (0-3-1)(S).** Laboratory course to accompany CHEM 440-440G. PREREQ: CHEM 320. COREQ: CHEM 440-400G.

**CHEM 443-443G ADVANCED CHEMICAL PREPARATION LABORATORY (1-3-2)(S).** Advanced techniques in the preparation, isolation, and characterization of chemical compounds, with emphasis on inorganic compounds. One three-hour laboratory and one hour of recitation per week. PREREQ: CHEM 401 and CHEM 324 or PERM/INST.

**CHEM 495 DIRECTED 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. An appropriate amount of library research and written reports is also required. May be repeated for credit. PREREQ: CHEM 380, CHEM 318 and CHEM 322.

**CHEM 498 SEMINAR (1-0-1)(S).** Group discussions of individual reports on selected topics in the various fields of chemistry. PREREQ: CHEM 380, chemistry major and senior standing.

## Chiropractic, Pre-Professional Program — see Department of Health Studies

# Department of Civil Engineering

Engineering and Technology Building, Room 201 Telephone 208 426-3764
http://coen.boisestate.edu/dep/ce.htm Fax 208 426-4800

*Chair and Professor:* Stephen Affleck. *Associate Professors:* Gribb, Hamilton, Haws, Murgel, Sener. *Assistant Professor*: Khanal.

## Degrees Offered

- Bachelor of Science in Civil Engineering and Minor (B.S.C.E.)
- Master of Science in Engineering (M.S.E.) (See the *BSU Graduate Catalog*)

## Department Statement

Civil engineers plan, design, and improve public and private projects that interact with both people and the environment. Students are exposed to the basics of many disciplines as undergraduates in order that they may be highly adaptable in the job market. The faculty members provide a broad based education in both modern and classical methods of problem solving to prepare students for work in the field, in an office, or in graduate school.

## Engineering Design in Civil Engineering

Students are introduced to the fundamentals of design beginning at the freshman level through the Introduction to Civil Engineering course. Projects, teamwork and planning are emphasized.

At the sophomore level students take Statics, Dynamics, and Mechanics of Materials, all of which are design oriented. These courses introduce students to open ended problems and selection of alternative solutions with their consequences.

The junior year includes basic environmental, structural, soils, materials, transportation, and fluid mechanics courses and labs, all of which contain significant design components in the form of open ended, practical problems, alternative approaches to solutions, feasibility considerations and detailed specifications of systems. A required reinforced concrete design course is also included in the junior year.

The senior year includes a capstone senior design course, CE 480, in which students work on a complex, multidisciplinary project that is real world civil engineering design. With appropriate guidance from the faculty, the students are given responsibility from beginning to end. The project is selected so that the students must interact closely with a local consulting engineering firm, a

government agency or similar organization. Drawings, preliminary reports, feasibility, alternative evaluation and a final written and oral presentation are key elements of the course. Also included in the senior year is a required civil engineering design elective course that students can choose in a speciality area. Students can also choose 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 40 for list of approved courses** | |
| Area I core course in one field | 3 |
| Area I core course in a second field | 3 |
| ***Area II — see page 40 for list of approved courses** | |
| COMM 101 Fundamentals of Speech Communication | 3 |
| Area II core course in a second field | 3 |
| ***Area I-II Depth Elective** | |
| Area I core course in a third field **AND** - an elective depth course** chosen from anthropology, communication, economics, geography, history, political science, psychology, or sociology, which either has an Area II core course as a prerequisite or is upper-division **OR** Area II core course in a third field **AND** an elective depth course** chosen from art, literature, humanities, music, philosophy, theatre arts, or a foreign language other than English or the student's native language, which either has an Area I core course as a prerequisite or is upper-division. | 6 |
| **Area III** | |
| Area III requirements are automatically met by specific courses included in the major requirements below. | |
| CE 120 Introduction to Civil Engineering | 3 |
| CE 210, 211 Engineering Surveying and Lab | 3 |
| CE 280 Civil Engineering Case Studies | 1 |
| CE 320, 321 Principles of Environmental Engineering and Lab | 4 |
| CE 340, 341 Engineering Properties of Construction Materials and Lab | 4 |
| 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, 112 College Chemistry and Lab | 9 |
| ENGL 202 Technical Communication | 3 |
| ENGR 210 Engineering Statics | 3 |
| ENGR 220 Engineering Dynamics | 3 |
| ENGR 240 Introduction to Electric Circuits | 3 |
| ENGR 320 Thermodynamics I | 3 |
| ENGR 330, 331 Fluid Mechanics and Lab | 4 |
| ENGR 350 Engineering Mechanics of Materials | 3 |
| ENGR 399 Engineering Seminar | 1 |
| MATH 170-171, 175 Calculus I and Lab, and Calculus II | 9 |
| MATH 275 Multivariable and Vector Calculus | 4 |
| MATH 333 Differential Equations with Matrix Theory | 4 |
| PHYS 211, 211L Mechanics, Waves, and Heat and Lab | 5 |
| PHYS 212, 212L Electricity, Magnetism, and Optics and Lab | 5 |
| *Civil Engineering Design elective | 3 |
| *Civil Engineering Technical electives | 3 |
| *Technical electives | 6 |
| Total | 130 |

NOTE: *All university core courses and technical and design electives must be approved by the student's advisor.
**Courses that instill cultural values are acceptable while routine exercises of personal craft are not. Students wanting to use ART 290 as an indepth Art course must take an Area I core Art course as a prerequisite to ART 290.

**Civil Engineering Minor**

| Course Number and Title | Credits |
|---|---|
| Three of the following:<br>CE 320, 321 Principles of Environmental Engineering and Lab<br>CE 340, 341 Engineering Properties of Construction Materials and Lab<br>CE 352 Structures I<br>CE 360, 361 Engineering Properties of Soils and Lab<br>CE 370 Transportation Engineering Fundamentals<br>ENGR 330, 331 Fluid Mechanics and Lab | 10-12 |
| Upper-division Civil Engineering courses | 7-9 |
| Total | 19 |

## Course Offerings

**See page 53 for a definition of the course-numbering system.**

**ENGR — ENGINEERING SCIENCE**

**See page 97 for the listing of ENGR courses.**

**CE — CIVIL ENGINEERING**

**Lower Division**

**CE 120 INTRODUCTION TO CIVIL ENGINEERING (1-4-3)(F/S).** Fundamentals of engineering and the design process, including principles and applications of graphics and computer programming. Design projects emphasize critical thinking, teamwork and oral and written presentations. PREREQ: MATH 147 or MATH 143 and MATH 144.

**CE 210 ENGINEERING SURVEYING (2-0-2)(F/S).** Use of transits, theodolites, levels and EDM's to measure horizontal and vertical distances, and angles. Error analysis, traverse, route and land surveying, construction surveying, and accompanying methods and calculations. PREREQ: MATH 147 or equivalent. 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 (1-0-1)(S).** Review of projects, historical and ongoing, from various aspects of Civil Engineering. PREREQ: Sophomore standing and CE 120 or ENGR 120.

**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).** General overview of fundamentals of environmental engineering. Emphasis on water and wastewater for engineers. Problems in air pollution, solid waste, hazardous waste, groundwater and noise pollution. PREREQ: CHEM 112 COREQ: CE 321.

**CE 321 PRINCIPLES OF ENVIRONMENTAL ENGINEERING LAB (0-3-1)(F/S).** Environmental engineering problems with emphasis on analysis and presentation. Significance of results as compared with theory and practice. PREREQ or COREQ: CE 320.

**CE 332 HYDROLOGY (3-0-3)(F/S).** Water cycle analysis, precipitation and surface runoff events, climatology, evaporation, transpiration, floods and routing, groundwater and snow melt. PREREQ: MATH 175 and Junior Standing.

**CE 336 HYDRAULICS (3-0-3)(F/S).** Applied principles of fluid mechanics, pipe flow, open channel flow, flow nets, and hydraulic machinery. Design. PREREQ: ENGR 330.

**CE 340 ENGINEERING PROPERTIES OF CONSTRUCTION MATERIALS (3-0-3)(F/S).** Physical and engineering properties, behavior, design, and utilization of various construction materials. PREREQ: ENGR 306 or ENGR 350. COREQ: 341.

**CE 341 ENGINEERING PROPERTIES OF CONSTRUCTION MATERIALS LAB (0-3-1)(F/S).** Evaluation of materials used in construction. PREREQ or COREQ: CE 340.

**CE 352 STRUCTURES I (2-2-3)(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)(F/S).** Analysis and design of structural systems. Stiffness method including the development of element properties, coordinate transformations, and global analysis theory. Three-dimensional building systems and an introduction to the Finite Element Method. PREREQ: CE 352.

**CE 360 ENGINEERING PROPERTIES OF SOILS (3-0-3)(F/S).** Descriptive terminology, physical and engineering properties, measurement techniques, and behavior of soils. PREREQ: ENGR 306 or ENGR 350. COREQ: CE 361.

**CE 361 ENGINEERING PROPERTIES OF SOILS LAB (0-3-1)(F/S).** Use of test apparatus in the evaluation of soils. PREREQ or COREQ: CE 360.

**CE 370 TRANSPORTATION ENGINEERING FUNDAMENTALS (3-0-3)(F/S).** Planning, design, and operations of multi-modal transportation systems. PREREQ or COREQ: MATH 272 or MATH 275.

**CE 390-390G 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. PREREQ or COREQ: CE 320, CE 352, and CE 360; or permission of instructor.

**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: CE 320.

**CE 424 WATER AND WASTEWATER TREATMENT PLANT DESIGN (3-0-3)(F/S).** Design of treatment systems for water supply and wastewater disposal. PREREQ: CE 320.

**CE 426 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 or PERM/INST.

**CE 428 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 pavement s, design of rigid concrete pavements, condition survey and ratings, distress evaluation, and maintenance and rehabilitation techniques. PREREQ: CE 340, CE 341, and CE370.

**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 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 upon customer, code, and engineering requirements. Includes a series of progress reports and a final formal presentation. PREREQ: CE 320, CE 352, CE 360 ENGR 360. PREREQ or COREQ: CE 340 and CE 370.

## Coaching — see Department of Kinesiology

# Department of Communication

Communication Building, Room 100 Telephone 208 426-3320
http:boisestate.edu/comm Fax 208 426-1069
e-mail: mcox@boisestate.edu

*Chair and Professor:* Marvin Cox. *Professors:* McCorkle, McLuskie, Mills, Parker. *Associate Professors:* Craner, Hetherington, Lutze, Moore, Rohlfing, Rudd, Wollheim. *Assistant Professors:* Morris, Most, Reeder. *Visiting Professor:* Reeder.

## Degrees Offered

- B.A. and Minor in Communication
- B.A. in Mass Communication/Journalism
- B.A. in Communication Training and Development
- 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.*)

## 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 enliven their learning through participation in the campus newspaper (*the Arbiter*), KBSU Radio, University Television Productions, intercollegiate debate and speech competition, campus readers' theater, and internships. Students are encouraged to participate in internships and practica. A total of 6 credits from internships and practica may count toward departmental major requirements; additional credits may count toward general education electives. The work of many students participating in these activities has been recognized through regional and national awards.

### Admission to Upper-Division Core Courses in Communication

Prior to admission to the first of the required upper-division core courses in communication, COMM 304 Perspectives of Inquiry, students must have completed the following courses with a minimum grade of C in each:

- ENGL 102; COMM 160; COMM 161;
- One of the following from Area I: PHIL 101 or PHIL 201;
- One of the following from Area II: SOC 101 or SOC 102 or SOC 230;
- One of the following from Area III: MATH 124, MATH 130, MATH 147, MATH 160, MATH 170-171, or MATH 175.

## Degree Requirements

**Communication**
**Bachelor of Arts**

| Course Number and Title | Credits |
|---|---|
| ENGL 101, *102 English Composition | 6 |
| **Area I — see page 40 for list of approved courses** | |
| *PHIL 101 Introduction to Philosophy **OR** | 3 |
| *PHIL 201 Introduction to Logic | |
| Area I core course in literature | 3 |
| Area I core course in a third field | 3 |
| Area I core course in any field | 3 |

*— continued —*

| *Communication (continued)* | |
|---|---|
| **Area II — see page 40 for list of approved courses** | |
| *SOC 101 Introduction to Sociology **OR** | 3 |
| *SOC 102 Social Problems **OR** | |
| *SOC 230 Introduction to Multiethnic Studies | |
| Area II core course in history | 3 |
| Area II core course in a third field | 3 |
| Area II core course in any field | 3 |
| Communication majors may not use communication courses to satisfy Area II requirements. | |
| **Area III — see page 40 for list of approved courses** | |
| *Mathematics chosen from MATH 124, 130, 147, 160, 170, or 175 | 4 |
| Area III core course in a second field | 4 |
| Area III core course in any field | 4 |
| Additional Area I and II courses<br>Communication majors may not use communication courses to satisfy Area II requirements. | 9 |
| *COMM 160 Communication and Culture I | 3 |
| *COMM 161 Communication and Culture II | 3 |
| COMM 304 Perspectives of Inquiry | 3 |
| COMM 421 Theory and Philosophy of Communication | 3 |
| COMM 498 Communication Seminar | 3 |
| Upper-division communication courses | 18 |
| Upper– lower-division Communication course | 3 |
| Upper-division electives to total 40 credits<br>Credits from all 300- and 400-level courses, whether elective or required, are applicable. The number in the right-hand column is the approximate number of additional upper-division credits required beyond those automatically accumulated in satisfying the communication requirement. | 13 |
| Electives to total 128 credits<br>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. | 28 |
| Total | 128 |
| NOTE: *Students must complete each of these courses with a grade of C or higher before being admitted to upper-division core courses in communication. | |

## Mass Communication/Journalism Bachelor of Arts

| Course Number and Title | Credits |
|---|---|
| ENGL 101, *102 English Composition | 6 |
| **Area I — see page 40 for list of approved courses** | |
| *PHIL 101 Introduction to Philosophy **OR** | 3 |
| *PHIL 201 Introduction to Logic | |
| Area I core course in literature | 3 |
| Area I core course in a third field | 3 |
| Area I core course in any field | 3 |
| **Area II — see page 40 for list of approved courses** | |
| *SOC 101 Introduction to Sociology **OR** | 3 |
| *SOC 102 Social Problems **OR** | |
| *SOC 230 Introduction to Multiethnic Studies | |
| Area II core course in history | 3 |
| Area II core course in a third field | 3 |
| Area II core course in any field | 3 |
| Communication majors may not use Communication courses to satisfy Area II requirements | |
| **Area III — see page 40 for list of approved courses** | |
| *Mathematics chosen from MATH 124, 130, 147, 160, 170, or 175 | 4 |
| Area III core course in a second field | 4 |
| Area III core course in any field | 4 |
| Additional Area I and II courses<br>Communication majors may not use communication courses to satisfy Area II requirements. | 9 |
| *COMM 160 Communication and Culture I | 3 |
| *COMM 161 Communication and Culture II | 3 |
| COMM 304 Perspectives of Inquiry | 3 |
| COMM 421 Theory and Philosophy of Communication | 3 |
| COMM 498 Communication Seminar | 3 |

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| *Mass Communication/Journalism (continued)* | |
|---|---|
| At least 2 of the following: | 6 |
| COMM 268 Introduction to Video Production | |
| COMM 269 Introduction to Radio Production | |
| COMM 273 Reporting and News Writing | |
| COMM 363 Advanced Writing Workshop | |
| 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 Special Studies in Media Production | |
| At least 4 courses from the following: | 12 |
| 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 Special Studies in Media Theory | |
| Upper– or lower-division Communication course | 3 |
| Upper-division electives to total 40 credits<br>Credits from all 300- and 400-level courses, whether elective or required, are applicable. The number in the right-hand column is the approximate number of additional upper-division credits required beyond those automatically accumulated in satisfying the communication requirement. | 15 |
| Electives to total 128 credits<br>The number in the right-hand columns is the approximate number of elective credits remaining that can be taken at either the upper- or lower-division levels. | 26 |
| Total | 128 |
| NOTE: *Students must complete each of these courses with a grade of C or higher before being admitted to upper-division core courses in communication. | |

## Communication, Secondary Education Bachelor of Arts

| Course Number and Title | Credits |
|---|---|
| ENGL 101, *102 English Composition | 6 |
| **Area I — see page 40 for list of approved courses** | |
| *PHIL 101 Introduction to Philosophy **OR** | 3 |
| *PHIL 201 Introduction to Logic | |
| Area I core course in literature | 3 |
| Area I core course in a third field | 3 |
| Area I core course in any field | 3 |
| **Area II — see page 40 for list of approved courses** | |
| EDUC 201 Foundations of Education | 3 |
| *SOC 101 Introduction to Sociology **OR** | 3 |
| *SOC 102 Social Problems **OR** | |
| *SOC 230 Introduction to Multiethnic Studies | |
| Area II core course in history | 3 |
| Area II core course in any field | 3 |
| Communication majors may not use Communication courses to satisfy Area II requirements. | |
| **Area III — see page 40 for list of approved courses** | |
| *Mathematics chosen from MATH 124, 130, 147, 160, 170, or 175 | 4 |
| Area III core course in a second field | 4 |
| Area III core course in any field | 4 |
| Additional Area I and II courses<br>Communication majors may not use communication courses to satisfy Area II requirements. | 9 |
| *COMM 160 Communication and Culture I | 3 |
| *COMM 161 Communication and Culture II | 3 |
| COMM 304 Perspectives of Inquiry | 3 |
| COMM 421 Theory and Philosophy of Communication | 3 |
| COMM 498 Communication Seminar | 3 |
| Required emphasis courses: | |
| COMM 112 Reasoned Discourse | 3 |
| COMM 114/314 Communication Activities | 2-4 |
| COMM 221 Interpersonal Communication | 3 |
| COMM 231 Public Speaking | 3 |
| COMM 356 Communication in the Small Group | 3 |

*— continued —*

| *Communication, Secondary Education (continued)* | |
|---|---|
| COMM 401 Methods of Teaching Communication<br>COMM 493 Internship in Directing Forensics | 3<br>1-2 |
| An additional 9 credits chosen from the following:<br>COMM 171 Mass Media and Society<br>COMM 214/414 Intercollegiate Debate<br>COMM 321 Rhetorical Theories<br>COMM 341 Nonverbal Communication<br>COMM 351 Intercultural Communication<br>COMM 390 Conflict Management<br>COMM 412 Persuasion<br>COMM 484 Studies in Rhetoric and Public Presentation | 9 |
| EDUC 202 Educational Technology – Classroom Applications<br>EDUC 301 Teaching: Experience I<br>EDUC 302 Learning and Instruction<br>EDUC 350 Teaching Students with Exceptional Needs at the Secondary Level<br>EDUC 401 Professional Year - Teaching Experience II<br>EDUC 402 Content Literacy for Secondary Students<br>Teaching Experience III/IV | 3<br>1<br>4<br>3<br><br>2<br>3<br>16 |
| Upper-division electives to total 40 credits<br>Credits from all 300- and 400-level courses, whether elective or required, are applicable. The number in the right-hand columns is the approximate number of additional upper-division credits required beyond those automatically accumulated in satisfying the communication requirement. | 0-2 |
| Electives to total 128 credits<br>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. | 9-12 |
| Total | 128 |

NOTE: *Students must complete each of these courses with a grade of C or higher before being admitted to upper-division core courses in communication.
It is strongly recommended that students seeking teacher certification 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. See Certification Requirements and Endorsements for Secondary Education as listed in the Teacher Education section of the catalog. Completion of all requirements for graduation with a secondary education option may require more than 128 credit hours. See: "Teacher Education" for more information.

## Communication, Training and Development Bachelor of Arts

| Course Number and Title | Credits |
|---|---|
| ENGL 101, *102 English Composition | 6 |
| **Area I — see page 40 for list of approved courses** | |
| *PHIL 101 Introduction to Philosophy **OR**<br>*PHIL 201 Introduction to Logic<br>Area I core course in literature<br>Area I core course in humanities<br>Area I core course in any field | 3<br><br>3<br>3<br>3 |
| **Area II — see page 40 for list of approved courses** | |
| ECON 201 Principles of Macroeconomics<br>*PSYC 101 General Psychology **OR**<br>*SOC 101 Introduction to Sociology<br>Area II core course in history<br>Area II core course in any field<br>Communication majors may not use Communication courses to satisfy Area II requirements. | 3<br>3<br><br>3<br>3 |
| **Area III — see page 40 for list of approved courses** | |
| *MATH 130 Finite Mathematics<br>*MATH 160 Survey of Calculus<br>Area III core course in second field | 4<br>4<br>4 |
| Additional Area I or II courses chosen from ANTH 102, PSYC 295, PSYC 441, SOC 210, SOC 310, EDUC 202, or TEACH-ED 356.<br>Communication majors may not use communication courses to satisfy Area II requirements. | 9 |
| *COMM 160 Communication and Culture I<br>*COMM 161 Communication and Culture II<br>COMM 255 Intro to Communication Training and Development<br>COMM 304 Perspectives of Inquiry<br>COMM 355 Developing Communication Training | 3<br>3<br>3<br>3<br>3 |

*— continued —*

| *Communication, Training and Development (continued)* | |
|---|---|
| COMM 421 Theory and Philosophy of Communication<br>COMM 498 Communication Seminar | 3<br>3 |
| At least one course from each of the following:<br>Presentation/Production Competencies (COMM 231, 268)<br>Interpersonal Competencies (COMM 131, 221, 307, 341, 390, 481)<br>Group and Organizational Competencies (COMM 356, 361, 431)<br>Writing Competencies (COMM 273, 363)<br>COMM 493 Internship | 15 |
| **Approved minor** in a related field (for example, art, biology, business, or economics). Chapter 12 contains a list of approved minors. The exact number of credits varies from minor to minor.<br>The number in the right hand column is the approximate number of credits needed to complete an approved minor, the exact number will depend on the approved minor chosen. | 21 |
| Upper-division electives to total 40 credits<br>Credits from all 300- and 400-level courses, whether elective or required, are applicable. The number in the right-hand column is the approximate number of additional upper-division credits required beyond those automatically accumulated in satisfying the communication requirement. | 13 |
| Electives to total 128 credits<br>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. | 7 |
| Total | 128 |

NOTE: *Students must complete each of these courses with a grade of C or higher before being admitted to upper-division core courses in communication.

## Communication/English Bachelor of Arts
### Journalism Emphasis

| Course Number and Title | Credits |
|---|---|
| ENGL 101, *102 English Composition | 6 |
| **Area I — see page 40 for list of approved courses** | |
| *PHIL 101 Introduction to Philosophy **OR**<br>*PHIL 201 Introduction to Logic<br>Area I core course in literature<br>Area I core course in a third field<br>Area I core course in any field | 3<br><br>3<br>3<br>3 |
| **Area II — see page 40 for list of approved courses** | |
| *SOC 101 Introduction to Sociology **OR**<br>*SOC 102 Social Problems **OR**<br>*SOC 230 Introduction to Multiethnic Studies<br>Area II core course in history<br>Area II core course in a third field<br>Area II core course in any field<br>Students in this major may not use communication courses to satisfy Area II requirements. | 3<br><br><br>3<br>3<br>3 |
| **Area III — see page 40 for list of approved courses** | |
| *Mathematics chosen from MATH 124, 130, 147, 160, 170, or 175<br>Area III core course in a second field<br>Area III core course in any field | 4<br>4<br>4 |
| Additional Area I or II courses<br>Students in this major may not use communication courses to satisfy Area II requirements | 9 |
| *COMM 160 Communication and Culture I<br>*COMM 161 Communication and Culture II<br>COMM 273 Reporting and Newswriting<br>COMM 304 Perspectives of Inquiry<br>COMM 421 Theory and Philosophy of Communication | 3<br>3<br>3<br>3<br>3 |
| 6 credits chosen from the following:<br>COMM 362 Legal and Ethical Issues of Mass Media<br>COMM 466 Communication Technology and Social Change<br>COMM 467 Mass Communication and Democracy<br>COMM 487 Studies in Media Theory | 6 |
| Upper-division mass communication or journalism courses | 6 |

*— continued —*

| *Communication/English, Journalism Emphasis (continued)* | |
|---|---|
| English to total 27 credits: | |
| ENGL 275 Intro to Literary Studies | 3 |
| British literature or American literature survey course | 3 |
| Composition above the basic sequence, to be chosen from ENGL 201 Nonfiction Writing, the creative writing sequence, and technical communication. | 9 |
| LING 305 Introduction to Language Study | 3 |
| Upper-division literature courses (at least 3 credits in courses before 1800) | 9 |
| COMM 498 or ENGL 498 Senior Seminar | 3 |
| Upper-division electives to total 40 credits<br>Credits from all 300- and 400-level courses, whether elective or required, are applicable. The number in the right-hand column is 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<br>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 |
| Total | 128 |
| NOTE: *Students must complete each of these courses with a grade of C or higher before being admitted to upper-division core courses in communication. | |

## Communication/English
## Bachelor of Arts
### Humanities/Rhetoric Emphasis

| Course Number and Title | Credits |
|---|---|
| ENGL 101, *102 English Composition | 6 |
| **Area I — see page 40 for list of approved courses** | |
| *PHIL 101 Introduction to Philosophy **OR** | 3 |
| *PHIL 201 Introduction to Logic | |
| Area I core course in literature | 3 |
| Area I core course in a third field | 3 |
| Area I core course in any field | 3 |
| **Area II — see page 40 for list of approved courses** | |
| *SOC 101 Introduction to Sociology **OR** | 3 |
| *SOC 102 Social Problems **OR** | |
| *SOC 230 Introduction to Multiethnic Studies | |
| Area II core course in history | 3 |
| Area II core course in a third field | 3 |
| Area II core course in any field<br>Students in this major may not use communication courses to satisfy Area II requirements. | 3 |
| **Area III — see page 40 for list of approved courses** | |
| *Mathematics chosen from MATH 124, 130, 147, 160, 170, or 175 | 4 |
| Area III core course in a second field | 4 |
| Area III core course in any field | 4 |
| Additional Area I and II courses<br>Students in this major may not use communication courses to satisfy Area II requirements. | 9 |
| *COMM 160 Communication and Culture I | 3 |
| *COMM 161 Communication and Culture II | 3 |
| COMM 221 Interpersonal Communication | 3 |
| COMM 231 Public Speaking **OR** | 3 |
| COMM 484 Studies in Rhetoric and Public Presentation | |
| COMM 304 Perspectives of Inquiry | 3 |
| COMM 321 Rhetorical Theories **OR** | 3 |
| COMM 331 Message Analysis and Criticism | |
| COMM 421 Theory and Philosophy of Communication | 3 |
| Upper-division communication courses | 6 |
| English courses to total 27 credits | |
| ENGL 275 Intro to Literary Studies | 3 |
| British literature or American literature survey course | 3 |
| HUM 207, 208 Intro to Humanities | 3 |
| Advanced writing and linguistics | 6 |
| LING 305 Intro to Language Studies | 3 |
| Upper-division courses | 9 |

*— continued —*

| *Communication/English, Humanities/Rhetoric Emphasis (continued)* | |
|---|---|
| COMM 498 or ENGL 498 Senior Seminar | 3 |
| Upper-division electives to total 40 credits<br>Credits from all 300- and 400-level courses, whether elective or required, are applicable. The number in the right-hand column is the approximate number of additional upper-division credits required beyond those automatically accumulated in satisfying the communication requirement. | 12-15 |
| Electives to total 128 credits<br>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. | 12-15 |
| Total | 128 |
| NOTE: *Students must complete each of these courses with a grade of C or higher before being admitted to upper-division core courses in communication. | |

## Communication Minor

| Notes | 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 |

# Course Offerings

**See page 53 for a definition of the course-numbering system.**

**COMM — COMMUNICATION**

**Lower Division**

**COMM 101 FUNDAMENTALS OF SPEECH COMMUNICATION (3-0-3)(Area II) (Formerly COMM 111).** 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 114 COMMUNICATION ACTIVITIES (Variable, 1 to 3)(F/S).** Preparation for and participation in communication activities: competitive forensics and community speaking, university television productions, or other co-curricular communication activities. Not more than four credits total of COMM 114, COMM 214, COMM 314, or COMM 414 may be applied toward fulfillment of Communication departmental major requirements. Not more than 12 credits total of COMM 114, COMM 214, COMM 314, or COMM 414 may be counted toward any undergraduate degree requirements. PREREQ: PERM/INST.

**COMM 115 INTRODUCTION TO COMMUNICATION STUDIES (1-0-1)(F/S).** Dimensions of human communication, historical and contemporary concepts, communication degree programs and career opportunities (Graded Pass/Fail).

**COMM 121 VOICE AND DICTION (3-0-3)(F/S).** Study voice science, voice expression, speech articulation and dialects, broadcast announcing, and the International Phonetic Alphabet. Considers student's individual speech problems.

**COMM 122 INTRODUCTION TO SIGN LANGUAGE (3-0-3)(F/S).** An introduction to sign language using American Sign Language (ASL). Emphasis is placed on initial skills and the history of sign language.

**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).** An introduction to the study of communication and culture. The course will examine 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 161 COMMUNICATION AND CULTURE II (3-0-3)(F/S).** An introduction to the study of communication and culture. The course will focus upon current issues and theoretical perspectives in the study of mass media, communication ethics, communication technologies and freedom of expression.

**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 214 INTERCOLLEGIATE DEBATE (1-0-1)(F/S).** Preparation for and participation in intercollegiate tournament debate. Not more than four credits total of COMM 114, COMM 214, COMM 314, or COMM 414 may be applied toward fulfillment of Communication departmental major requirements. Not more than 12 credits total of COMM 114, COMM 214, COMM 314, or COMM 414 may be counted toward any undergraduate degree requirements. COREQ: COMM 114 or 314.

**COMM 221 INTERPERSONAL COMMUNICATION (3-0-3).** An 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 255 INTRODUCTION TO COMMUNICATION TRAINING AND DEVELOPMENT (3-0-3)(F/S).** Designed primarily for students interested in communication-based training and development careers. A survey of theories and techniques of communication training and development in human organizations.

**COMM 268 INTRODUCTION TO VIDEO PRODUCTION (3-0-3)(F/S).** The course will introduce students 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 RADIO PRODUCTION (3-0-3)(F/S).** The course will introduce students to the technologies of radio production, as well as aesthetic approaches and production strategies for different types of radio programs. Emphasis is placed on using radio as an effective means of human communication and self-expression. Students in the course will have the opportunity to develop proposals and programs for BSU 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 and ability to use typewriter or PERM/INST.

**Upper Division**

**COMM 300 COMMUNICATION ISSUES, INDUSTRIES AND INQUIRY IN CANADA (3-0-3)(S).** Describes Canadian communication industries, issues, and inquiry, especially the question of cultural identity for Canada. Discusses governmental communication policy as a tool for preserving national, regional, and tribal identity. Examines Canadian scholars of communication. Cross-listed as CANSTD 300 for credit in the Canadian studies minor.

**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: Completion of the following courses with a minimum grade of C in each: ENGL 102, COMM 160, COMM 161; One of the following from Area I: PHIL 101 or PHIL 201; One of the following from Area II: SOC 101 or SOC 102 or SOC 230; One of the following from Area III: MATH 124, MATH 130, MATH 147, MATH 160, MATH 170-171, or MATH 175.

**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 311 SPEECH COMMUNICATION FOR TEACHERS (3-0-3)(F/S).** Designed to improve the prospective teacher's awareness of communicative processes related to effective teaching; emphasis on various communication situations confronted by teachers, and strategies for achieving good student-teacher relationships. PREREQ: COMM 255 or admission to teacher education program.

**COMM 314 COMMUNICATION ACTIVITIES (Variable, 1 to 3)(F/S).** Preparation for and participation in communication activities: competitive forensics and community speaking, university television productions, or other co-curricular communication activities. Not more than four credits total of COMM 114, COMM 214, COMM 314 or COMM 414 may be applied toward fulfillment of Communication departmental major requirements. Not more than 12 credits total of COMM 114, COMM 214, COMM 314, COMM 414 may be counted toward any undergraduate degree requirements. PREREQ: PERM/INST.

**COMM 321 RHETORICAL THEORIES (3-0-3)(F/S).** An examination of theories concerning the complexity of interaction among ideas, messages, and people, including analysis of various message strategies.

**COMM 322 INTERMEDIATE SIGN LANGUAGE (3-0-3)(F/S).** A continuation in building skills, vocabulary, and techniques in American Sign Language (ASL). A refining of abilities in communication will be stressed. Techniques for using a total communication with the deaf will be expanded to cover various educational and social situations. PREREQ: COMM 122.

**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 355 DEVELOPING COMMUNICATION TRAINING (3-0-3)(F/S).** Analysis of processes of communication training. Developing skills in designing, preparing, presenting, and evaluating training activities. PREREQ: COMM 255 and COMM 302.

**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).** An 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).** The application of communication theory and methodology to the study of communication within the formal organization. Theories and problems of human communication within and between organizations.

**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 WRITING WORKSHOP (3-0-3)(F/S).** Advanced instruction in various forms of journalistic writing, including feature and critical writing. PREREQ: COMM 273.

**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: COMM 268.

**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 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. Students may not receive credit for both SOC 390 and COMM 390. PREREQ: SOC 290 or COMM 101, 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.

**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. Not more than four credits total of COMM 114, COMM 214, COMM 314, or COMM 414 may be applied toward fulfillment of Communication departmental major requirements. Not more than 12 credits total of COMM 114, COMM 214, COMM 314, or COMM 414 may be counted toward any undergraduate degree requirements. COREQ: COMM 114 or 314.

**COMM 421 THEORY AND PHILOSOPHY OF COMMUNICATION (3-0-3)(F/S).** Students explore various generic philosophies of communication and the perspectives of inquiry they imply, culminating in the articulation of a theory of communication. PREREQ: C or above in COMM 304, and any one of the following courses: COMM 302, ENGL 488-488G, HIST 210, or SOC 311.

**COMM 431 SMALL GROUP THEORY AND RESEARCH (3-0-3)(F).** An advanced study of variables affecting and theories explaining the communicative interaction of small groups.

**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).** A 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 478 PUBLIC RELATIONS (3-0-3)(S).** Analysis of public relations media and methods. Public relations as a management tool. Identifying and reaching the various publics. Practice in writing publicity releases.

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 Special Topics section of the *BSU Directory 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).** The 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 483 STUDIES IN ORGANIZATIONAL COMMUNICATION (3-0-3)(F/S).** The study of basic communication principles as applied to or affected by the organizational setting. Content varies from semester to semester. Subjects may include communication theories of organizational management, negotiation, human relations training, etc. Course may be repeated for credit.

**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 493 INTERNSHIP (Variable credits).** Supervised field work. For more information on internships, see "BSU's Course Numbering System" in Chapter 12.

**COMM 496 INDEPENDENT STUDY (1-4 Credits).** Individual study of either a reading or project nature.

**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: COMM 421 and senior standing.

# Department of Computer Information Systems and Production Management

Business Building, Room 308 Telephone 208 426-1181
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*Chair and Professor:* David Groebner. *Professors:* Anson, Green, LaCava, Minch, Shannon, G. Wojtkowski, W. Wojtkowski. *Associate Professors:* Foster, P. Fry, Gallup, Maxson. *Assistant Professors:* Nagasundaram, Tabor. *Special Lecturers:* Cavaiani, Erickson, S. Fry.

## Degrees Offered

- B.B.A., B.A., B.S, and Minor in Computer Information Systems
- B.B.A., B.A., and B.S. in Networking and Telecommunications
- B.B.A., B.A., and B.S. in Production and Operations Management
- Minor in Quality Management

## Department Statement

Computer Information Systems (CIS) merges several disciplines, including organizational behavior, management, accounting, management science, and computing technology to support organizational business processing and decision making. The basic purpose of the program is to prepare students for careers in end-user computing, database administration, application programming, systems analysis and development, information center service, operations, and information resource management. While providing a thorough education in computing and general business, along with a broad background in the arts and sciences, the CIS program emphasizes a balance between technological, human, and organizational considerations in the application of information technology.

The Production and Operations Management (POM) Program integrates fundamentals from most of the functional areas of business with the analytical techniques and skills necessary for competent decision making. Classes emphasize real applications and interaction with practitioners from local businesses and government. The POM major prepares students for work in both quality and customer issues in service and manufacturing areas involving purchasing, manufacturing scheduling; uses of technology and quantitative modeling. Students can add depth to their study through internships and independent study.

The Networking and Telecommunication (NTCOMM) major will educate students in telecommunications, data communications, computer networks, network management, and related areas including technological, business, and environmental (legal, social, etc.) issues. It will prepare graduates to plan for, implement, and manage computer networks and telecommunications infrastructures in businesses and other organizations. The core of the major will require 36 credit hours, with 21 of these specifically in NTCOMM and the remaining 15 in existing or modified Computer Information Systems (CIS) classes.

## Degree Requirements

**Computer Information Systems**
**Bachelor of Business Administration**

| Course Number and Title | Credits |
|---|---|
| ENGL 101, 102 English Composition | 6 |
| **Area I — see page 40 for list of approved courses** | |
| Area I core courses | 6 |
| **Area II — see page 40 for list of approved courses** | |
| ECON 201 Principles of Macroeconomics | 3 |
| ECON 202 Principles of Microeconomics | 3 |
| Area II core course other than economics | 3 |
| Area II core course other than economics | 3 |
| **Area III — see page 40 for list of approved courses** | |
| Area III core course - (MATH 143 or MATH 147) | 3-5 |
| Area III core course - (MATH 160 or MATH 170,171) | 4-5 |
| 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, geography, history, political science, psychology, social work, sociology, teacher education); **Natural Sciences and Mathematics** (biological sciences, physical sciences, mathematics) No more than 3 credits may be fitness/kinesiology activity courses. Telecourses are excluded. | 15-21 |
| *ACCT 205 Introduction to Financial Accounting | 3 |
| *ACCT 206 Introduction to Managerial Accounting | 3 |
| *BUSCOM 328 Business Communications | 3 |
| BUSSTAT 207, 208 Statistical Techniques for Decision Making I & II | 6 |
| *CIS 120 Principles of CIS | 3 |
| *CIS 217 Database Systems | 3 |
| *CIS 320 Systems Analysis and Design | 3 |
| *CIS 490 Information Resource Management | 3 |
| *-**FINAN 303 Principles of Finance | 3 |
| *GENBUS 202 The Legal Environment of Business | 3 |
| *GENBUS 441 Business, Government, and Society | 3 |
| *GENBUS 450 Business Policies | 3 |

*— continued —*

| *Computer Information Systems (continued)* | |
|---|---|
| *-**MGMT 301 Leadership Skills | 3 |
| *-**MKTG 301 Principles of Marketing | 3 |
| *NTCOMM 305 Telecommunications | 3 |
| *-**OPERMGT 345 Principles of Production Management<br>*OPERMGT 435 Project Management | 3<br>3 |
| *CIS major credits<br>Four CIS elective courses chosen from ACCT 351, CIS 417, CIS 430, CIS 460, CIS 493, CIS 497, OPERMGT 366, OPERMGT 380, OPERMGT 408, OPERMGT 409, OPERMGT 416, OPERMGT 497. (No more than one OPERMGT course may be used to satisfy this requirement.) NTCOMM 355, NTCOMM 405, NTCOMM 415, NTCOMM 425, NTCOMM 435, NTCOMM 445, NTCOMM 465, NTCOMM 475. No more than three credits of internship (CIS 493) may be used to satisfy this requirement. | 12 |
| *International business course<br>Upper-division courses in international business may be used to satisfy this requirement. Special Topics courses may be used only with the approval of a CIS advisor. | 3 |
| Procedural language course<br>Suggested procedural language courses: CIS 221, CIS 225, COMPSCI 115, COMPSCI 117, or COMPSCI 125. | 2-4 |
| ***Electives to total 128 credits | 1 |
| Total | 128 |

NOTES: *At least 32 of these business credits must be taken at Boise State University.
**Must be completed with grades of 'C' or higher before taking GENBUS 450.
***Please refer to the B.B.A., B.A., or B.S. requirements in Chapter 11 for explanation.
Computer Literacy must be demonstrated either by completing CIS 104, CIS 105, and CIS 106 with a 'C' or above, or by passing the College of Business and Economics Computer Placement Exam for CIS 104, CIS 105, CIS 106. Completion of this requirement is the prerequisite for BUSSTAT 207, CIS 120, and OPERMGT 345.
CIS 310 may not be used for CIS major requirement nor CIS elective.
All courses used toward the CIS degree must have a grade of 'C' or better.

For students who wish to major in another field, the Department of Computer Information Systems and Production Management offers a minor in Computer Information Systems. **Each student seeking this minor must first get approval from the Department of Computer Information Systems and Production Management.**

## Computer Information Systems Minor

| Course Number and Title | Credits |
|---|---|
| CIS 120 Principles of CIS<br>CIS 217 Database Systems<br>CIS 320 Systems Analysis and Design | 3<br>3<br>3 |
| NTCOMM 305 Introduction and Survey of Business Telecommunications | 3 |
| Procedural language chosen from CIS 221, CIS 225. COMPSCI 115, COMPSCI 117, or COMPSCI 125. | 2-4 |
| Elective courses chosen from:<br>CIS 417 Advanced Data Management Topics, CIS 430 Advanced Systems Development, CIS 460 Advanced Topics in Programming Languages, CIS 490 Information Resource Management, CIS 497 Special Topics as offered, NTCOMM 315 Computer Networking, NTCOMM 325 Network Applications Development, NTCOMM 335 Electronic Commerce, NTCOMM 355 Voice Communication, NTCOMM 415 Network Management, NTCOMM 405 Regulatory, Social, and Legal Issues in Telecommunications, NTCOMM 425 Computer Telephony Integration, NTCOMM 435 Client-Server Systems, NTCOMM 445 Internet and TCP/IP Protocols, NTCOMM 465 Computer and Network Security, NTCOMM 475 Hands-on Network Management | 9 |
| Total | 20-21 |

NOTE: All course prerequisites are enforced for students pursuing the CIS minor. No more than 3 credits of internship (CIS 493) may be used to satisfy this requirement.)
All courses used toward the CIS minor must have a grade of 'C' or better.
CIS 310 may not be used for a CIS minor requirement nor elective.

## Networking and Telecommunications Bachelor of Business Administration

| Course Number and Title | Credits |
|---|---|
| ENGL 101, 102 English Composition | 6 |
| **Area I — see page 40 for list of approved courses** | |
| PHIL 201 Introduction to Logic<br>Area I core course | 3<br>3 |
| **Area II — see page 40 for list of approved courses** | |
| ECON 201 Principles of Macroeconomics<br>ECON 202 Principles of Microeconomics<br>Area II core course other than economics<br>Area II core course other than economics | 3<br>3<br>3<br>3 |
| **Area III — see page 40 for list of approved courses** | |
| Area III core course - (MATH 143 or MATH 147)<br>Area III core course - (MATH 160 or MATH 170,171)<br>Area III core course in a lab science | 3-5<br>4-5<br>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, geography, history, political science, psychology, social work, sociology, teacher education); **Natural Sciences and Mathematics** (biological sciences, physical sciences, mathematics)<br>No more than 3 credits may be fitness/kinesiology activity courses. Telecourses are excluded. | 18-21 |
| *ACCT 205 Introduction to Financial Accounting<br>*ACCT 206 Introduction to Managerial Accounting | 3<br>3 |
| *BUSCOM 328 Business Communications | 3 |
| BUSSTAT 207, 208 Statistical Techniques for Decision Making I & II | 6 |
| *CIS 120 Principles of CIS<br>*CIS 217 Database Systems<br>*CIS 320 Systems Analysis and Design<br>*CIS 490 Information Resource Management | 3<br>3<br>3<br>3 |
| *-**FINAN 303 Principles of Finance | 3 |
| *GENBUS 202 The Legal Environment of Business<br>*GENBUS 450 Business Policies | 3<br>3 |
| *-**MGMT 301 Leadership Skills | 3 |
| *-**MKTG 301 Principles of Marketing | 3 |
| *-**OPERMGT 345 Principles of Production Management | 3 |
| *NTCOMM 305 Introduction and Survey of Telecommunications<br>*NTCOMM 315 Computer Networking<br>*NTCOMM 325 Network Applications Development<br>*NTCOMM 335 Electronic Commerce<br>*NTCOMM 355 Voice Communications **OR** NTCOMM 415 Network Management | 3<br>3<br>3<br>3<br>3 |
| PHIL 211 Ethics | 3 |
| *Networking and Telecommunications electives<br>Two approved 400-level Networking and Telecommunications courses. See department web page for current electives. No more than three credits of internship (NTCOMM 493) may be used to satisfy this requirement. | 6 |
| Operations Management course chosen from selected department approved list. | 3 |
| Procedural language course<br>One procedural programming language from department-approved list. | 3 |
| ***Electives to total 128 credits | 0 |
| Total | 128 |

NOTES: *At least 32 of these business credits must be taken at Boise State University.
**Must be completed with grades of 'C' or higher before taking GENBUS 450.
***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 CIS 104, 105, 106.
All courses in the major must be completed with a grade of 'C' or higher.
A minimum GPA of 2.5 overall and a minimum GPA of 2.7 in the 12 Information Systems and Networking and Telecommunications courses are required.
CIS or Telecommunications courses older than 5 years may not apply toward major requirements.

### Production and Operations Management Bachelor of Business Administration

| Course Number and Title | Credits |
|---|---|
| ENGL 101, 102 English Composition | 6 |
| **Area I — see page 40 for list of approved courses** | |
| PHIL 201 Introduction to Logic | 3 |
| Area I core course | 3 |
| **Area II — see page 40 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 other than economics | 3 |
| **Area III — see page 40 for list of approved courses** | |
| Area III core course - (MATH 143 or MATH 147) | 3-5 |
| Area III core course - (MATH 160 or MATH 170,171) | 4-5 |
| 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, geography, history, political science, psychology, social work, sociology, teacher education); **Natural Sciences and Mathematics** (biological sciences, physical sciences, mathematics) No more than 3 credits may be fitness/kinesiology activity courses. Telecourses are excluded. | 20-23 |
| *ACCT 205 Introduction to Financial Accounting | 3 |
| *ACCT 206 Introduction to Managerial Accounting | 3 |
| *BUSCOM 328 Business Communications | 3 |
| BUSSTAT 207, 208 Statistical Techniques for Decision Making I & II | 6 |
| *CIS 120 Principles of CIS | 3 |
| *CIS 217 Database Systems | 3 |
| *CIS 310 Introduction to Management Information Systems | 3 |
| *-**FINAN 303 Principles of Finance | 3 |
| *GENBUS 202 The Legal Environment of Business | 3 |
| *GENBUS 441 Business, Government, and Society | 3 |
| *GENBUS 450 Business Policies | 3 |
| *-**MGMT 301 Leadership Skills | 3 |
| *-**MKTG 301 Principles of Marketing | 3 |
| *-**OPERMGT 345 Principles of Production Management | 3 |
| *OPERMGT 366 Quantitative Analysis and Modeling | 3 |
| *OPERMGT 380 The Tools of Quality | 3 |
| *OPERMGT 408 Manufacturing Systems | 3 |
| *OPERMGT 440 Operations Strategy | 3 |
| *OPERMGT 493 Internship | 3 |
| POM Major electives<br>OPERMGT 381 Quality Management Implementation<br>OPERMGT 409 Management of Service Operations<br>OPERMGT 416 Purchasing and Distribution Systems<br>OPERMGT 435 Project Management<br>OPERMGT 497 Special Topics: Operations Strategy<br>MKTG 418 Customer Satisfaction Measurement | 6 |
| ***Electives to total 128 credits | 7 |
| Total | 128 |

NOTES: *At least 32 of these business credits must be taken at Boise State University.
**Must be completed with grades of 'C' or higher before taking GENBUS 450.
***Please refer to the B.B.A., B.A., or B.S. requirements in Chapter 11 for explanation.
The department recommends that each production and operations management major take OPERMGT 493 Internship during the student's junior year for a minimum of 3 credits of electives.
Computer Literacy must be demonstrated either by completing CIS 104, CIS 105, and CIS 106 with a 'C' or above, or passing the College of Business and Economics Computer Placement Exam for CIS 104, CIS 105, and CIS 106.
Completion of this requirement is a prerequisite for BUSSTAT 207, CIS 120, and OPERMGT 345.
All courses used toward the POM degree must have a grade of 'C' or better.

The Quality Management minor is offered to students who seek more-specialized courses in the quality management area than are presently offered as part of the major degree programs in the College of Business and Economics. Nonbusiness students may qualify for this minor but must complete CIS 310 and all the lower-division requirements for the business minor before enrolling for any of the following courses. **Students in the quality management minor must sign up with the computer information systems and production management department.**

### Quality Management Minor

| Course Number and Title | Credits |
|---|---|
| MGMT 405 Management of Continuous Learning | 3 |
| MKTG 418 Customer Satisfaction Measurement | 3 |
| OPERMGT 380 The Tools of Quality | 3 |
| OPERMGT 381 Implementation of Quality Management | 3 |
| 2 of the following:<br>ACCT 351 Cost Accounting<br>OPERMGT 408 Manufacturing Systems<br>OPERMGT 409 Management of Service Operations<br>OPERMGT 416 Purchasing and Distribution<br>497 Special Topics (offered through the College of Business and Economics)<br>OPERMGT 493 Internship | 5-7 |
| Total | 17-19 |

NOTE: Production and operations management majors are not eligible for this minor.

## Course Offerings

**See page 53 for a definition of the course-numbering system.**

Upper-division courses in the department of computer information systems and production 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. **The prerequisite "No D Rule" is strongly enforced for all BUSSTAT, CIS, NTCOMM, and OPERMGT 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 CIS 104 and CIS 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.

**CIS — COMPUTER INFORMATION SYSTEMS**

**Lower Division**

**CIS 104 OPERATING SYSTEMS AND WORD PROCESSING TOPICS (0-2-1)(F,S).** Application of microcomputers using current productivity software. Particular attention is devoted to problem-solving with computers through hands-on experience in an instructed lab setting and through self-taught tutorials (Internet). This 5-week, one-credit course includes wordprocessing topics; theory and concept materials, and microcomputing applications software and hardware in the workplace, educational settings, and the home.

**CIS 105 SPREADSHEET TOPICS (0-2-1)(F,S).** Application for microcomputers using current productivity software. Particular attention is devoted to problem-solving with computers through hands-on experience in an instructed lab setting and through self-taught tutorials (Internet). This 5-week, one-credit course includes spreadsheet topics; theory and concept materials, and microcomputing applications software and hardware in the workplace, educational settings, and the home. PREREQ: CIS 104 or successful completion of a placement exam for CIS 104.

**CIS 106 DATABASE TOPICS (0-2-1)(F,S).** Application for microcomputers using current productivity software. Particular attention is devoted to problem-solving with

computers through hands-on experience in an instructed lab setting and through self-taught tutorials (Internet). This 5-week, one-credit course includes database topics; theory and concept materials, and microcomputing applications for software and hardware in the workplace, educational settings, and the home. PREREQ: CIS 104 and CIS 105 or successful completion of a placement exam for CIS 104 and CIS 105.

**CIS 120 PRINCIPLES OF CIS (3-0-3)(F,S).** This first course for Computer Information Systems majors emphasizes topics including the business systems development using graphical-based high-level tools, (electronic spreadsheets and scripting languages), the systems development life cycle, issues and eras of information system evolution. PREREQ: Computer competency is required. This may be demonstrated by CIS 104, CIS 105, and CIS 106 or successful completion of a computer placement exam for these courses.

**CIS 217 DATABASE SYSTEMS (3-0-3)(F,S).** Addresses design and development of small database systems for business applications with emphasis on prototyping methodologies and high-level development tools. PREREQ: CIS 120.

**CIS 221 INTRODUCTION TO BUSINESS APPLICATIONS PROGRAMMING (COBOL)(3-0-3)(F,S).** Development of business applications in COBOL with structured programming concepts. Emphasis on structured program design, documentation, testing, and implementation issues. PREREQ: CIS 120.

**CIS 225 INTRODUCTION TO GRAPHICAL USER INTERFACE PROGRAMMING (3-0-3)(F,S).** Development of business applications using rapid development tools. Includes the essential procedural concepts of sequence, selection, and iteration, as well as arrays and string manipulation. PREREQ: CIS 120.

**Upper Division**

**CIS 310 INTRODUCTION TO MANAGEMENT INFORMATION SYSTEMS (3-0-3)(F,S).** An introduction to the fundamental concepts of management information systems in business organizations. Management information is the framework tying together business decision makers in an organization. This course includes: information systems concepts and planning; end-user computing; hardware, software, and database systems; systems analysis, design, and implementation; computer-human interface; data communications and networks; international, social, political, legal, behavioral, and ethical issues of MIS. Not accepted for CIS majors. PREREQ: Junior standing.

**CIS 320 SYSTEMS ANALYSIS AND DESIGN (3-0-3)(F,S).** Utilization of methods for working with users to analyze and develop business applications. The life cycle of development, project management, process of interface with users, documentation, database interface, and productivity tools will be discussed. PREREQ: ACCT 205 and CIS 217.

**CIS 417 ADVANCED DATA MANAGEMENT TOPICS (3-0-3)(F/S).** Addresses technical and managerial aspects of data management organizations with emphasis on distributed and client/server database issues and the data/database administration functions. Other topics may include: file structures, emerging database models, large scale systems. PREREQ: CIS 320.

**CIS 430 ADVANCED SYSTEMS DEVELOPMENT (3-0-3)(S).** Covers systems analysis and design using object techniques in a business environment. Includes an overview of the various analysis and design tools and methods such as object-oriented programming and CASE which have been developed over the last decade. In-depth discussion of one analysis and design method and one programming language. PREREQ: CIS 320.

**CIS 444-444G CREATIVE THINKING AND PROBLEM SOLVING (3-0-3)(F).** Seeks to help improve the student's abilities to think and act more creatively. Introduces concepts, exercises and techniques for use individually and in groups. These are augmented by discussions designed to help students reflect on what they learned through the exercises. PREREQ: Upper-division standing or PERM/INST.

**CIS 460 ADVANCED TOPICS IN PROGRAMMING LANGUAGES (3-0-3)(F,S).** Introduces object-oriented languages in practice. Languages in this category include Visual C++, SmallTalk, Eiffel, and many others. The object oriented group of languages embodies a new development environment in which it takes less effort to move through the system development cycle. Languages introduced in this course represent tightly integrated visual development systems that streamline the development of business applications for graphical user environments. PREREQ: CIS 221 or other CIS accepted procedural language.

**CIS 490 INFORMATION RESOURCE MANAGEMENT (3-0-3)(F/S).** A capstone course covering the management of the information systems function. Topics include the technical, operational, developmental, and support functions, acquisitions and management of resources, organizational structure, human resource issues, end-user computing, ethical and legal considerations, and managing emerging technologies. PREREQ: CIS 320.

**CIS 493 INTERNSHIP (Variable Credit)(F,S).** Field learning in an MIS environment under supervision of both a manager and professor. PREREQ or COREQ: CIS 320.

**NTCOMM — NETWORKING AND TELECOMMUNICATIONS**

**Upper Division**

**NTCOMM 305 INTRODUCTION AND SURVEY OF BUSINESS TELECOMMUNICATIONS (3-0-3)(F/S).** Discussion of telecommunications technology and related managerial issues in a business environment. Topics include basic concepts of data communication, related hardware and software technology, standards and protocols, local and wide area networks, network management, common carrier services, strategic business applications, and emerging trends. Emphasis is on basic concepts, business applications, and telecommunications management rather than details of hardware and software technology. PREREQ: CIS 120.

**NTCOMM 315 COMPUTER NETWORKING (3-0-3)(F,S).** Concepts, technology, and applications of computer networking in business. Topics include networking hardware, topologies, media, protocols, and standards; network operating system server and client software, internetworking devices; network planning and administration. Local area networks, metropolitan area networks, and wide area networks will be considered, with emphasis on local networks. Some hands-on experience installing and managing network components will be included to the extent that facilities, equipment, and technical support permit. PREREQ: NTCOMM 305.

**NTCOMM 325 NETWORK APPLICATIONS DEVELOPMENT (3-0-3)(F,S).** Analysis, design, and implementation of on-line systems using Internet and World Wide Web standards. Topics include client-server architectural alternatives, tools and development environments, database interfaces, use of multimedia, and challenges unique to the delivery environments. Students may implement projects using client-side scripting, server-side programming tools, or other distributed/cooperative processing approaches. PREREQ: NTCOMM 305, a procedural programming language class from the department-maintained approved list.

**NTCOMM 335 ELECTRONIC COMMERCE (3-0-3)(F,S).** Exploration of both technical and business topics related to conducting business electronically, including the Internet and other networks. Topics include strategy, technology, payment systems, security and privacy issues, legal and regulatory considerations, and other topics as appropriate during the semester. Analysis of case studies and/or student projects studying examples in existing businesses and hands-on development will be included. PREREQ: ACCT 205, MKTG 301, NTCOMM 305.

**NTCOMM 355 VOICE COMMUNICATIONS (3-0-3)(F/S).** Voice communications and telephony in public and private environments. Topics include the public switched telephone system in the US and other countries, private teleophony systems such as computerized private branch exchanges, long-distance and wide-area voice network alternatives, and emerging topics such as voice/data integration, Integrated Services Digital Networks (ISDN), Asynchronous Transfer Mode (ATM), multimedia communication and computer-telephony integration. PREREQ: NTCOMM 305.

**NTCOMM 405 REGULATORY, SOCIAL, AND LEGAL ISSUES IN TELECOMMUNICATIONS (3-0-3)(F/S).** A survey of how business is impacted by various laws and regulations in the telecommunications field. Additionally, social, ethical, and privacy issues resulting from our increasingly information-bound society will be explored. PREREQ: GENBUS 202, NTCOMM 305.

**NTCOMM 415 NETWORK MANAGEMENT (3-0-3)(F/S).** A technical and managerial view of network operations and how our 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: NTCOMM 315.

**NTCOMM 425 COMPUTER-TELEPHONY INTEGRATION (3-0-3)(F/S).** Organizations of all sizes face decisions related to the convergence of voice, fax, data, and telephony. This course will study current technology and trends in accomplishing cohesion in the enterprise. PREREQ: NTCOMM 325, NTCOMM 355.

**NTCOMM 435 CLIENT-SERVER SYSTEMS (3-0-3)(F/S).** An introduction to distributed systems in the enterprise. Students will use current programming languages and tools to build multi-tier applications and gain an understanding of the issues and advantages of the client/server paradigm. PREREQ: NTCOMM 315, NTCOMM 325.

**NTCOMM 445 INTERNET AND TCP/IP PROTOCOLS (3-0-3)(F/S).** An in-depth study of the protocols of the Internet including the TCP/IP suite. Standards and standards bodies, implementation issues, current applications, and future directions of proposed protocols will be discussed. PREREQ: NTCOMM 315, NTCOMM 325.

**NTCOMM 465 COMPUTER AND NETWORK SECURITY (3-0-3)(F/S).** An in-depth exploration of security issues and challenges for the business enterprise. Technology, tools, and business policy will be addressed. PREREQ: NTCOMM 315.

**NTCOMM 475 HANDS-ON NETWORK MANAGEMENT (1-2-3).** A limited-enrollment seminary and laboratory approach to advanced, current and emerging subjects in computer networking. Topics include TCP/IP protocols and standards. Students in the class will operate, maintain, and enhance a dedicated laboratory facility of networked client and server computers, obtaining hands-on experience in the process. PREREQ: NTCOMM 305 with a grade of B or better, experience with UNIX and/or Windows NT, and PERM/INST.

**NTCOMM 493 INTERNSHIP (3-0-3).** Internship requirements are defined by the department internship coordinator. PREREQ: NTCOMM 305, NTCOMM 315, NTCOMM 325, NTCOMM 335, NTCOMM 355.

**OPERMGT — PRODUCTION AND OPERATIONS MANAGEMENT**

**Upper Division**

**OPERMGT 345 PRINCIPLES OF PRODUCTION MANAGEMENT (3-0-3)(F/S).** Management of the production function: analysis, design, planning, and control of production processes, plant location, design and layout, scheduling, time and motion study, quality control, material acquisition, and systems theory. Quantitative techniques are considered. PREREQ: ACCT 206, BUSSTAT 207, ECON 202, MATH 160, and computer competency is required. Computer competency may be demonstrated by CIS 104 and CIS 105 or successful completion of a computer placement exam for these courses.

**OPERMGT 366 QUANTITATIVE ANALYSIS AND MODELING (3-0-3)(F/S).** Quantitative techniques useful in analyzing and solving problems encountered in production and operations management. Quantitative techniques useful in resource

management, production planning, scheduling transportation, location analysis, project management, budgeting, staffing, and other areas will be examined. Emphasis is on modeling problems and interpreting computer-generated solutions. PREREQ: OPERMGT 345 or PERM/INST.

**OPERMGT 380 THE TOOLS OF QUALITY (3-0-3)(S).** This course will introduce the basic tools of quality and the quality planning tools widely 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 improvement. Examples of successful and unsuccessful applications will be presented. PREREQ: OPERMGT 345 or PERM/INST.

**OPERMGT 381 QUALITY MANAGEMENT IMPLEMENTATION (3-0-3)(F/S).** This course focuses on planning, assuring, controlling, and managing the quality efforts within a manufacturing or service organization. The critical elements of implementing a successful quality management program are discussed. Among the topics addressed in this course are current quality thought, Kaizen techniques, benchmarking, quality maturity analysis, supplier/customer partnering, value-adding management, and quality leadership issues. The course will draw heavily from the experience of successful organization from throughout the world. Case studies will be utilized. PREREQ: OPERMGT 345 or PERM/INST.

**OPERMGT 408 MANUFACTURING SYSTEMS (3-0-3)(F).** This course extends the topics offered in the survey Principles of Production course, and will further develop the concepts and theory behind manufacturing resource management, including the master schedule, bill of materials, and inventory records system. Other major topics include Just-in-Time manufacturing, computer-aided manufacturing, flexible manufacturing systems, and techniques used by international competitors. PREREQ: OPERMGT 345 or PERM/INST.

**OPERMGT 409 MANAGEMENT OF SERVICE OPERATIONS (3-0-3)(S).** The course applies the principles of production management to service operations. The problems associated with service operations will be considered and contrasted to those of production systems. Special demands for organization and control will be reviewed, as well as the identification of elements of success. The case method will be used extensively. PREREQ: OPERMGT 345 or PERM/INST.

**OPERMGT 416 PURCHASING AND DISTRIBUTION SYSTEMS (3-0-3)(F).** This course introduces concepts associated with purchasing and distribution in manufacturing and service systems. Typical purchasing topics will include supplier selection, legal and ethical considerations, order size, and timing. Typical distribution topics will include transportation modeling, carrier selection, materials handling, and flow analysis. PREREQ: OPERMGT 345 or PERM/INST.

**OPERMGT 435 PROJECT MANAGEMENT (3-0-3)(S).** Provides an overview of current topics in project management and discusses such issues as team selection, the role of the project manager, common conflicts found in major projects and techniques used to address these conflicts. Techniques such as PERT/CPM will be discussed as both a planning and controlling tool. Project management software will be introduced. PREREQ: Upper-division standing.

**OPERMGT 440 OPERATIONS STRATEGY (3-0-3)(F/S).** Capstone course. Synthesizes quantitative and managerial approaches to develop a framework for planning organizational improvement. The relationships among operations, marketing, management information systems, finance, and human resources strategies are explored. A combination of readings, cases, and experiential learning provides a basis for applying operations management strategies and models. Course to be taken during the last year of the major. PREREQ: OPERMGT 380 and OPERMGT 408 or PERM/INST.

**OPERMGT 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: OPERMGT 345 and PERM/INST.

# Department of Computer Science

Micron Engineering Center, Room 302 Telephone 208 426-1153
http://coen.boisestate.edu/dep/cs.htm Fax 208 426-4466
e-mail: office@cs.boisestate.edu

*Chair and Associate Professor:* John H. Griffin. *Associate Professors:* Buffenbarger, Feldman, Jain, Kenny. *Assistant Professors:* Lusth, Yeh.

## Degrees Offered

- Bachelor of Science in Computer Science (B.S.C.S.)
- Master of Science in Computer Science (M.S.C.S.)(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. Our students have also been successful at strong graduate schools.

The B.S. in computer science is accredited by the Computer Science accreditation Commission (CSAC) of the Computing Sciences accreditation Board (CSAB).

## Degree Requirements

**Computer Science
Bachelor of Science**

| Course Number and Title | Credits |
|---|---|
| ENGL 101, 102 English Composition | 6 |
| **Area I — see page 40 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 40 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 40 for list of approved courses** | |
| Area III requirements are automatically met by specific courses included in the major requirements below. | |
| A year's sequence in a laboratory science<br>Either CHEM 111, 112 College Chemistry **OR**<br>PHYS 211, 211L Mechanics, Waves and Heat and Lab **AND**<br>PHYS 212, 212L Electricity, Magnetism and Optics and Lab | 9-10 |
| COMPSCI 125 Introduction to Computer Science I | 4 |
| COMPSCI 225 Introduction to Computer Science II | 4 |
| COMPSCI 242 Data Structures and Algorithms | 4 |
| COMPSCI 353 Operating Systems | 4 |
| COMPSCI 354 Programming Languages | 3 |
| COMPSCI 451 Programming Language Translation | 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 |
| Two additional computer science course chosen from:<br>COMPSCI 341 Introduction to Computer Graphics<br>COMPSCI 357 Introduction to Artificial Intelligence<br>COMPSCI 410 Database Theory<br>COMPSCI 430 Parallel and Distributed Computing<br>COMPSCI 441 Computer Architecture | 6-8 |

*— continued —*

| *Computer Science (continued)* | |
|---|---|
| Required mathematics courses:<br>MATH 170, 171 Calculus I and Lab<br>MATH 175 Calculus II<br>MATH 187 Discrete and Foundational Mathematics I<br>MATH 361 Probability and Statistics I | <br>5<br>4<br>4<br>4 |
| One mathematics course chosen from the following:<br>MATH 301 Linear Algebra<br>MATH 307 Cryptology I<br>MATH 308 Cryptology II<br>MATH 333 Differential Equations with Matrix Theory<br>MATH 387 Discrete and Foundational Mathematics II | 4 |
| EE 330, 330L Digital Logic Systems and Lab<br>EE 332, 332L Microprocessors and Lab | 4<br>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 | 0-1 |
| Electives to total 128 credits | 16-21 |
| Total | 128 |

| Computer Science Minor | |
|---|---|
| **Course Number and Title** | **Credits** |
| COMPSCI 125 Introduction to Computer Science I<br>COMPSCI 225 Introduction to Computer Science II | 4<br>4 |
| MATH 170, 171 Calculus I and Lab<br>MATH 175 Calculus II<br>MATH 187 Discrete and Foundational Mathematics I | 5<br>4<br>4 |
| Two COMPSCI courses numbered 242 or higher<br>(excludes Seminar and Internship) | 6-8 |
| Total | 27-29 |

# Course Offerings

**See page 53 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.

**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 125 INTRODUCTION TO COMPUTER SCIENCE I (4-0-4)(F,S).** Data and procedure abstraction. Problem solving techniques, recursive algorithms, basic searching and sorting techniques. Introduction to object-based programming. Software development process (specification, design, stepwise refinement), social and ethical issues in computing. Note: students with no prior computing experience should consider taking a language course prior to this course. PREREQ: MATH 147 or MATH 160 or satisfactory math placement score.

**COMPSCI 225 INTRODUCTION TO COMPUTER SCIENCE II (4-0-4)(F,S).** Proofs of program correctness, including induction and recursion. Introduction to the 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 242 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 and to parallel and distributed algorithms. Examples are drawn from various areas of computer science. Prerequisite: COMPSCI 225 and MATH 170 or PERM/INST.

**Upper Division**

**COMPSCI 341 INTRODUCTION TO COMPUTER GRAPHICS (3-0-3)(F).** The mathematics and programming techniques of computer graphics, including line drawing, presentation graphics, two- and three- dimensional transformations, hidden line and surface removal, and clipping. PREREQ: MATH 275 and COMPSCI 125.

**COMPSCI 353 OPERATING SYSTEMS (4-0-4)(F).** File systems and buffer caching algorithms. Memory management. Process structure, control and scheduling algorithms. Interprocess communication techniques. PREREQ: COMPSCI 225 and EE 332.

**COMPSCI 354 PROGRAMMING LANGUAGES (3-0-3)(S).** Principles of programming languages: design, syntax, semantics, information binding, strings, arithmetic, input/output, recursion, and extensibility. PREREQ: COMPSCI 225 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 410-410G DATABASE THEORY (4-0-4)(S).** A study of the theoretical foundations of database management systems. Design and implementation of alternatives for various database models, including but not limited to, hierarchical, network, and relational models. Comparison of the reliability, security and integrity of various database systems. Implementation of a simple system. PREREQ: COMPSCI 242 or PERM/INST.

**COMPSCI 430-430G PARALLEL AND DISTRIBUTED COMPUTING (4-0-4)(F).** Motivation for parallel computation and survey of different models. Fundamental techniques used in parallel algorithms. Implementation on parallel machines and simulations on clusters of workstations. Distributed computing versus parallel computing. Models for distributed computing. Examples of distributed programming environments. PREREQ: COMPSCI 242 or PERM/INST.

**COMPSCI 367/567/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. Cross listed with COMPSCI 367 and COMPSCI 567; credit may be received for only one of these three courses. PREREQ: MATH 170, MATH 171, and MATH 187.

**COMPSCI 368/568/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. Cross listed with MATH 308 and COMPSCI 368/568; credit may be received for only one of these three courses. PREREQ: MATH 170, MATH 171, and MATH 187.

**COMPSCI 441-441G (EE 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. This course may be taken for either COMPSCI or EE credit, but not both. PREREQ: COMPSCI 117 or COMPSCI 125, and EE 332 or PERM/INST.

**COMPSCI 451 PROGRAMMING LANGUAGE TRANSLATION (4-0-4)(S).** Assembler language programming, theory and practice of formal language translation, experience with compiler construction tools under UNIX. Students work on significant projects. PREREQ: COMPSCI 354.

**COMPSCI 461-461G 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 242 or PERM/INST.

**COMPSCI 471-471G 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 225 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).** Current topics in computer science. May be repeated for credit with the permission of the department chair.. (Pass/Fail). PREREQ: COMPSCI 242 or PERM/INST.

# Department of Construction Management

Engineering Technology Building, Room 201 Telephone 208 426-3764
http://coen.boisestate.edu/dep/cm.htm Fax 208 426-4800

*Chair and Associate Professor:* Jon Mason. *Professor:* Gabert. *Associate Professor:* Gains. *Assistant Professor*: Kuhlmeier.

## Degrees Offered

- B.S.C.M.and Minor in Construction Management

## Program Statement

The vision of the Construction Management Program is to provide quality education that builds innovative leaders with skill, responsibility, and integrity for the construction industry.

The objective of the Construction Management Program is to provide an education of the highest possible quality, given current constraints, in an accredited program with studies in engineering, business, communication, mathematics, physics, and construction management so that the constructor can intelligently relate to and coordinate the efforts of owners, engineers, architects, craftsmen, contractors, and other professionals. 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 57 credits and have a cumulative grade point average of 2.40 or better before being admitted to any upper-division business or construction management classes.
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.

## Degree Requirements

**Construction Management**
**B.S.C.M.**

| Course Number and Title | Credits |
|---|---|
| ENGL 101, 102 English Composition | 6 |
| **Area I — see page 40 for list of approved courses** | |
| Area I core course in one field | 3 |
| Area I core course in a second field | 3 |
| **Area II — see page 40 for list of approved courses** | |
| COMM 101 Fundamentals of Speech Communication | 3 |
| ECON 202 Principles of Microeconomics | 3 |
| ***Area I-II Depth Elective** | |
| Area I core course in a third field **AND** an elective depth an elective depth course** chosen from anthropology, communication, economics, geography, history, political science, psychology, or sociology which either has an Area II core course as a prerequisite or is upper-division **OR** Area II core course in a third field **AND** an elective depth course** chosen from art, literature, humanities, music, philosophy, theatre arts, or a foreign language other than English or the student's native language which either has an Area I core course as a prerequisite or is upper-division. | 6 |

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***Construction Management (continued)***

| | |
|---|---|
| **Area III** | |
| *MATH 170, 171 Calculus I and Lab | 5 |
| PHYS 111 General Physics **OR** | 4-5 |
| PHYS 211, 211L, Mechanics, Waves, and Heat and Lab | |
| PHYS 112 General Physics **OR** | 4-5 |
| PHYS 212, 212L Electricity, Magnetism and Optics and Lab | |
| *Math competency exam is required; MATH 025, MATH 108 and/or MATH 147 may be required before MATH 170-171. | |
| ACCT 205 Introduction to Financial Accounting | 3 |
| ACCT 206 Introduction to Managerial Accounting | 3 |
| *ART 290 Materials and Methods of Architecture | 3 |
| BUSSTAT 207 Statistical Techniques for Decision Making I | 3 |
| CE 210, 211 Engineering Surveying and Lab | 3 |
| CMGT 141 Construction Materials and Methods | 2 |
| CMGT 240 Introduction to the Management of Construction | 3 |
| CMGT 245 Construction Drawings and Specifications | 3 |
| CMGT 320 Construction Equipment and Methods | 3 |
| CMGT 330 Soil Mechanics and Foundation Construction **OR** | 3 |
| CE 360 Engineering Properties of Soils | |
| CMGT 350 Mechanical and Electrical Installations | 3 |
| CMGT 367 Construction Estimating | 3 |
| CMGT 374 Construction Operations and Improvements | 2 |
| CMGT 380 Advanced Estimating | 1 |
| CMGT 381 Building Project Estimating Lab **OR** | 1 |
| CMGT 382 Heavy and Highway Project Estimating Lab | |
| CMGT 385 Construction Contracts and Law | 3 |
| CMGT 410 Concrete and Formwork Construction | 3 |
| CMGT 417 Project Scheduling | 3 |
| CMGT 441 Construction Safety and Supervision | 3 |
| CMGT 460 Project Cost Controls | 3 |
| CMGT 475 Project Management | 3 |
| ENGL 202 Technical Communication **OR** | 3 |
| BUSCOM 328 Business Communication | |
| ENGR 105 Engineering Graphics | 2 |
| ENGR 107 Computer Fundamentals and Programming **OR** | 3 |
| ENGR 120 Introduction to Engineering **OR** | |
| CIS 104 Operating Systems and Word Processing Topics **AND** | |
| CIS 105 Spreadsheet Topics **AND** | |
| CIS 106 Database Topics | |
| ENGR 205 Mechanics/Statics **OR** | 3 |
| ENGR 210 Engineering Statics | |
| ENGR 306 Mechanics of Materials **OR** | 3 |
| ENGR 350 Engineering Mechanics of Materials | |
| ENGR 360 Engineering Economy **OR** | 3 |
| FINAN 303 Principles of Finance | |
| GENBUS 202 The Legal Environment of Business | 3 |
| GEOL 305 Soil Mechanics Lab **OR** | 1 |
| CE 361 Engineering Properties of Soils Lab | |
| MGMT 410 Seminar on Organizational Leadership | 3 |
| Business elective chosen from BUSSTAT 208, ECON 201, FINAN 201, FINAN 410, GENBUS 302, GENBUS 360, MGMT 330, MGMT 405, MGMT 415, MKTG 301, or OPERMGT 345 | 3 |
| Labor Relations course chosen from MGMT 305, MGMT 330, or MGMT 340 | 3 |
| Specialty Construction elective chosen from CMGT 351, CMGT 352, CMGT 420, CE 310, CE 332, CE 340, CE 390, ENGR 320 ENGR 330, EE 376 | 3-4 |
| Technical electives chosen from CMGT 420, CMGT 493, CMGT 497, CHEM 111, 112, CE 340, CE 341, CE 352, CE 390, ENGR 220, ENGR 320, ENGR 330, GEOL 101, MATH 175, MATH 275 | 34 |
| Total | 130 |

NOTE:*In either Area I or II, students must complete two related courses in the same field. These courses must be upper-division courses which are the second completed in a particular field, or be courses that have a prerequisite of another humanities or social science course. (Courses that instill cultural values are acceptable while routine exercises of personal craft are not. Students wanting to use ART 290 as an in-depth Arts course, a core course from Art must be taken as a prerequisite to ART 290. If ART 290 is used as an in-depth art course an additional Construction Management/Management elective is required.

| Construction Management Minor | |
|---|---|
| **Course Number and Title** | **Credits** |
| CMGT 240 Introduction to the Management of Construction | 3 |
| CMGT 245 Construction Plans and Specifications | 3 |
| CMGT 367 Construction Estimating | 3 |
| CMGT 374 Construction Operations and Improvements | 2 |
| CMGT 385 Construction Contracts and Law | 3 |
| CMGT 417 Project Scheduling | 3 |
| ENGR 105 Engineering Graphics | 2 |
| Total | 19 |

# Course Offerings

**See page 53 for a definition of the course-numbering system.**

**CMGT — CONSTRUCTION MANAGEMENT**

**Lower Division**

**CMGT 141 CONSTRUCTION MATERIALS AND METHODS (1-3-2)(F/S).** The application of construction materials, safety, and building codes, and an opportunity for some hands-on construction experiences, such as excavation, compaction, and site work; formwork and concrete; steel; carpentry; or other construction operations.

**CMGT 240 INTRODUCTION TO MANAGEMENT OF CONSTRUCTION (3-0-3)(F/S).** Study of industry practice emphasizing business organizations and management techniques. Topics include organizational environments, decision making, design, technology, leadership, and basic construction management including terminology, quantity take-offs, estimating, and scheduling. Occasional Friday field trips required. PREREQ: MATH 108 or equivalent.

**CMGT 245 CONSTRUCTION DRAWINGS AND SPECIFICATIONS (3-0-3)(F,S).** The three-dimensional visualization and interpretation of plans, working drawings, and construction drawings; and the organization, wording, and meaning of construction specifications and the complementary relationship of the specifications to the drawings. Occasional Friday field trips required. PREREQ: ENGR 105.

**Upper Division**

**CMGT 320 CONSTRUCTION EQUIPMENT AND METHODS (3-0-3)(F).** Characteristics, capabilities, limitations, and employment of general building and heavy construction equipment. Friday field trips required. PREREQ: ENGR 205.

**CMGT 330 SOIL MECHANICS AND FOUNDATION CONSTRUCTION (3-0-3)(S).** Fundamentals of soil mechanics as it relates to foundation and earthwork construction problems: interaction of water and soil, compaction, bearing capacity, lateral pressures, drainage and waterproofing, spread footings, retaining walls, pile foundations, and special foundation construction problems. PREREQ: ENGR 205 or PERM/INST. COREQ: GEOL 305.

**CMGT 350 MECHANICAL AND ELECTRICAL INSTALLATIONS (3-0-3)(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 PHYS 112, or equivalent.

**CMGT 351 MECHANICAL INSTALLATIONS (3-0-3)(F/S).** The fundamentals of mechanical installations and associated construction problems including heat loss and gain, heating, ventilating, air-conditioning, fluid flow in pipes and open channels, water supply, and sewage systems. Occasional Friday field trips required. PREREQ: CMGT 245 and PHYS 111 or PHYS 211.

**CMGT 352 ELECTRICAL INSTALLATIONS (3-0-3)(F/S).** The fundamentals of electrical installations and associated construction problems including electrical circuits, conduits, conductors, switch gear; other service equipment, and electrical transmission. Occasional Friday field trips required. PREREQ: CMGT 245 and PHYS 112 or PHYS 212.

**CMGT 367 CONSTRUCTION ESTIMATING (2-3-3)(F).** Extracting quantity take-offs from drawings, classifying the work in accordance with the specifications, compiling and pricing estimates, developing zero-based cost estimates using CSI divisions and work break-down structure, and preparation of bids. Occasional Friday field trips required. PREREQ: CMGT 245 and MATH 147 or equivalent.

**CMGT 374 CONSTRUCTION OPERATIONS AND IMPROVEMENTS (2-1-2)(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. Occasional Friday field trips are required. PREREQ: CMGT 240.

**CMGT 380 ADVANCED ESTIMATING (1-0-1)(S).** Students estimate and bid a building, heavy civil, or highway project, which includes: error detection, estimate accuracy, constructability, resource allocation/utilization, capital commitment, market conditions, and profitability analysis. Computerized estimating in the modern-day workplace is introduced. Occasional Friday field trips required. PREREQ: CMGT 367. COREQ: CMGT 381 or CMGT 382.

**CMGT 381 BUILDING PROJECT ESTIMATING LAB (0-3-1)(S).** The estimating and bidding of complete building projects using computers as an estimating tool. PREREQ: CMGT 367 and COREQ: CMGT 380.

**CMGT 382 HEAVY AND HIGHWAY PROJECT ESTIMATING LAB (0-3-1)(S).** The estimating and bidding of complete heavy civil or highway projects using computers as an estimating tool. PREREQ: CMGT 367 and COREQ: CMGT 380

**CMGT 385 CONSTRUCTION CONTRACTS AND LAW (3-0-3)(F/S).** This course 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 AND FORMWORK CONSTRUCTION (3-0-3)(F).** Design and methods of formwork construction. Study of the properties of concrete, methods of mixing, placing, curing, and finishing. Friday field trips required. PREREQ: ENGR 306.

**CMGT 417-417G PROJECT SCHEDULING (2-2-3)(F/S).** The use of Gantt charts, S-curves, Critical Path Method (CPM) using both Arrow Diagraming and Precedence Diagraming Methods (ADM and PDM), computerized scheduling, P.E.R.T. charts, resource leveling and time cost trade offs used as planning, scheduling, and management techniques. PREREQ: CMGT 374 and ENGR 107 or PERM/INST.

**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 441-441G CONSTRUCTION SAFETY AND SUPERVISION (2-3-3)(F/S).** Students plan and supervise safety procedures, quality control, and monitor/inspect construction operations. Emphasis is placed on leadership, teamwork, the safety plan and safety procedures. PREREQ: CMGT 374 or PERM/INST.

**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 475-475G PROJECT MANAGEMENT (3-0-3)(F/S).** Application of professional construction management techniques including site investigation, contractor and subcontractor qualifications, conceptual estimating and budgeting, quality assurance, business development, risk management, and ethics; preparation of proposals, claims, and negotiations. PREREQ: CMGT 240, CMGT 385, and senior status, or PERM/INST.

**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.

# Counselor Education Department

Education Building, 6th Floor Telephone 208 426-1219

*Chair and Professor:* Margaret Miller. *Professors:* Coll, Nicholsen. *Associate Professors:* Birdsall, Downs, Nelson.

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 school counseling program is designed to prepare professionals in education and related careers to become professional counselors at the elementary and secondary levels. Included are extensive practica and internship opportunities to work with a wide variety of clients in schools and other work settings. Graduates meet the Idaho school counseling endorsement requirements and are prepared to begin the process for licensure as professional counselors.

An additional elective track provides courses leading to certification as an addictions counselor.

# Department of Criminal Justice Administration

Library Building, Room 166 Telephone 208 426-3407
http://cja.boisestate.edu Fax 208 426-4371
e-mail: rdehlin@boisestate.edu

*Chair and Associate Professor:* Mary Stohr. *Professors:* Crank, Walsh. *Associate Professors:* King, Marsh. *Assistant Professors:* Giacomazzi, Hemmens. *Graduate Coordinator:* Giacomazzi.

## Degrees Offered

- A.S., B.A., and B.S. in Criminal Justice Administration
- M.A. in Criminal Justice Administration (See the *BSU Graduate Catalog*)

## Department Statement

The department of criminal justice administration 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 administration, and participates in the Canadian Studies Program.

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. Mary Stohr
Library, Room 166-A, Telephone 208 426-3407

The department of criminal justice administration 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. Successful completion of a minimum of 32 credits of the lower-division university core, including ENGL 101, 102 English Composition; SOC 101 Introduction to Sociology; PSYC 101 General Psychology; POLS 101 American National Government; COMM 101 Fundamentals of Speech Communication; three credits of history (B.A. only); 6 credits of Area I; and eight credits of Area III lab science and/or mathematics.
3. All required lower-division criminal justice courses must be completed with no less than a C average: CJA 101, CJA 201, CJA 215, and CJA 281.
4. Cumulative GPA of 2.5 or higher at the time of application is required.
5. Completion of at least 58 credits (including course work in progress at the time of application).
6. Selection of a degree emphasis area.
7. 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 Administration**
**Bachelor of Art or Science**

| Course Number and Title | Credits |
|---|---|
| ENGL 101, 102 English Composition | 6 |
| **Area I — see page 40 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 |
| (B.A. must complete three credits of Area I core literature.) | |
| **Area II — see page 40 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 | 3 |
| (B.A. must complete three credits of Area II history.) | |
| **Area III — see page 40 for list of approved courses** | |
| MATH 124 Mathematics as A Liberal Art | 4 |
| Area III core course in a second field | 4 |
| Area III core course in any field | 4 |
| CJA 101 Introduction to Law and Justice | 3 |
| CJA 201 Introduction to Criminal Justice Administration | 3 |
| CJA 215 Police in the United States | 3 |
| CJA 281 Introduction to Corrections | 3 |
| CJA 315 Public Policy and Criminal Behavior | 3 |
| CJA 317 The Juvenile Justice System | 3 |
| CJA 321 Criminal Law | 3 |
| CJA 362 Contemporary Correctional Theory and Practice | 3 |
| CJA 363 Criminal Justice Management | 3 |
| CJA 426 Research Statistics | 3 |
| CJA 489 Senior Tutorial | 3 |
| CJA 498 Senior Seminar in Criminal Justice | 3 |
| **Corrections/Counseling Emphasis** | |
| CJA 331 Corrections in the Community | 3 |
| CJA 340 Interviewing and Counseling in Criminal Justice | 4 |
| CJA 341 Advanced Interviewing and Counseling in Criminal Justice | 4 |
| CJA 490 Field Practicum | 6 |
| Upper-division criminal justice elective | 3 |
| Electives to total 128 credits | 30 |
| **Courts/Law Emphasis** | |
| CJA 275 Law of Criminal Evidence | 3 |
| CJA 276 Law of Arrest, Search and Seizure | 3 |
| CJA 350 Methods of Legal Research | 3 |
| CJA 371 Corrections Law | 3 |
| CJA 451 Comparative Criminal Justice Administration **OR** CJA 452 Comparative Canadian Justice | 3 |
| CJA 490 Field Practicum | 6 |
| POLS 351 Constitutional Law | 3 |
| Upper-division criminal justice elective | 3 |
| Electives to total 128 credits | 23 |
| **Law Enforcement Emphasis** | |
| CJA 275 Law of Criminal Evidence | 3 |
| CJA 276 Law of Arrest, Search and Seizure | 3 |
| CJA 451 Comparative Criminal Justice Administration **OR** CJA 452 Comparative Canadian Justice | 3 |
| CJA 461 Contemporary Issues in American Policing | 3 |
| CJA 490 Field Practicum | 6 |
| Upper-division criminal justice elective | 6 |
| Electives to total 128 | 26 |

*— continued —*

| *Criminal Justice Administration (continued)* | |
|---|---|
| **Research Emphasis** | |
| CJA 350 Methods of Legal Research | 3 |
| CJA 428 Advanced Methods Criminal Justice Research | 3 |
| CJA 451 Comparative Criminal Justice Administration **OR** CJA 452 Comparative Canadian Justice | 3 |
| CJA 490 Field Practicum | 6 |
| Upper-division criminal justice elective | 3 |
| Electives to total 128 credits | 32 |
| Total | 128 |

## Criminal Justice Associate of Science

| Course Number and Title | Credits |
|---|---|
| ENGL 101, 102 English Composition | 6 |
| **Area I — see page 40 for list of approved courses** | |
| Area I core courses in humanities | 6 |
| **Area II — see page 40 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 40 for list of approved courses** | |
| Area III core course in mathematics | 4 |
| Area III core course in natural science | 4 |
| CJA 101 Introduction to Law and Justice | 3 |
| CJA 201 Introduction to Criminal Justice Administration | 3 |
| CJA 215 Police in the United States | 3 |
| CJA 275 Law of Criminal Evidence | 3 |
| CJA 276 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 | 7 |
| Total | 64 |

# Course Offerings

**See page 53 for a definition of the course-numbering system.**

**CJA — CRIMINAL JUSTICE ADMINISTRATION**

**Lower Division**

**CJA 101 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.

**CJA 201 INTRODUCTION TO CRIMINAL JUSTICE ADMINISTRATION (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.

**CJA 215 POLICE IN THE UNITED STATES (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. PREREQ: CJA 201.

**CJA 275 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: CJA 201.

**CJA 276 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: CJA 201.

**CJA 281 INTRODUCTION TO CORRECTIONS (3-0-3)(S).** History, theory, practices, and research in adult, community, and institutional corrections.

**CJA 290 (SOC 290) SOCIAL CONFLICT AND PEACEMAKING (3-0-3)(F).** (Cross listed as SOC 290.) 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. This course may be taken for either CJA or SOC credit, but not both.

**Upper Division**

**CJA 301 ADMINISTRATION OF JUSTICE (3-0-3)(F).** The administration of criminal justice from arrest to sentencing. Federal and state rules of criminal procedure and laws of evidence as they apply to and affect constitutional due process. PREREQ: Upper-division criminal justice standing and CJA 201.

**CJA 315 PUBLIC POLICY AND CRIMINAL BEHAVIOR (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.

**CJA 317 THE JUVENILE JUSTICE SYSTEM (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.

**CJA 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. PREREQ: Upper-division criminal justice standing and CJA 201.

**CJA 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. PREREQ: CJA 201 or SOC 101.

**CJA 340 INTERVIEWING AND COUNSELING IN CRIMINAL JUSTICE (3-2-4)(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 administration standing.

**CJA 341 ADVANCED INTERVIEWING AND COUNSELING IN CRIMINAL JUSTICE (3-2-4)(S).** Analysis of major theoretical counseling models. Development of advanced skills in interviewing and counseling strategies focusing on the unmotivated, involuntary client. PREREQ: Upper-division criminal justice standing and CJA 340.

**CJA 350 METHODS OF LEGAL RESEARCH (3-0-3)(F).** An introduction to methods of legal research with emphasis on the utilization of law library resources, private and government organizations as courses of legal information, and on the formulation of briefs, memoranda, and other documents appropriate to legal practice. PREREQ: Upper-division criminal justice administration standing.

**CJA 362 (SOC 362) CONTEMPORARY CORRECTIONAL THEORY AND PRACTICE (3-0-3)(F).** (Cross listed SOC 362). 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 CJA or SOC credit, but not both. PREREQ: Upper-division criminal justice administration standing.

**CJA 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 administration standing.

**CJA 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 administration standing.

**CJA 426 RESEARCH STATISTICS (3-0-3)(F,SU).** An 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: Upper-division criminal justice administration standing.

**CJA 428 ADVANCED METHODS OF CRIMINAL JUSTICE RESEARCH (3-0-3)(S).** Advanced methods of research and analysis in criminal justice with emphasis on designing and managing research projects. Students will design and conduct their own research project. PREREQ: Upper-division criminal justice standing and CJA 426.

**CJA 451 COMPARATIVE CRIMINAL JUSTICE ADMINISTRATION (3-0-3)(S).** An analysis and comparison of law enforcement systems at the federal, state, and local levels and international systems. PREREQ: Upper-division criminal justice standing and CJA 301.

**CJA 452 COMPARATIVE CANADIAN JUSTICE (1-6-3)(S)(Offered even numbered years).** An analysis and comparison of U.S.-Canadian criminal justice systems at all levels, and of the U.S. Constitution versus the Canadian Charter of Rights and Freedom. Requires classroom attendance at the final six weeks of CJA 451 and residence at the University of British Columbia during the two weeks following final examination week. Either CJA 451 or CJA 452 satisfy applicable graduation requirements in criminal justice. PREREQ: Upper-division criminal justice standing, CJA 301 and CJA 362, or PERM/INST.

**CJA 461 CONTEMPORARY ISSUES IN AMERICAN POLICING (3-0-3)(S).** Study and discussion of the major contemporary issues facing the modern police organization. Utilization of knowledge gained in CJA 363 to address specific areas of enforcement at the local, state, and federal levels of government. Major areas of enforcement concerns

involving drugs, street gangs, and increased use of firearms. PREREQ: Upper-division criminal justice administration standing and CJA 363.

**CJA 471 CRIMINALISTICS (3-0-3)(F/S).** Major concepts of forensic science and investigator role in crime scene evidence collections.

**CJA 489 SENIOR TUTORIAL (3-0-3)(F/S).** Directed research in relevant contemporary issues in criminal justice and criminology. Research proposal will be submitted to and approved by criminal justice faculty prior to the initiation of the project. The culmination of the course will be the submission and presentation of an appropriate written project paper. PREREQ: Senior standing in criminal justice administration.

**CJA 490 FIELD PRACTICUM (V-V-6).** Student placement in selected criminal justice agencies with assigned duties of regular personnel. Relevant research project required. Weekly seminar meetings with instructor to review research and agency progress. Required of all BA/BS students without one year of full- time criminal justice experience. PREREQ: Upper-division criminal justice administration standing.

**CJA 498 SENIOR SEMINAR IN CONTEMPORARY CRIMINAL JUSTICE PROBLEMS (3-0-3)(S).** Exploration of current and anticipated critical issues and problems in the criminal justice system. PREREQ: CJA 201, senior criminal justice administration standing, or PERM/INST.

### Dental, Pre-professional Program — see Department of Health Studies

### Dietetics, Pre-Professional Program — see Department of Health Studies

# Dispute Resolution Certificate

Education Building, Room 717 — Telephone 208 426-3928
e-mail: smccork@boisestate.edu — Fax 208 426-4318

*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 BSU 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 4th 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 BSU 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 | 3 |
| DISPUT 446 Mediation Competency Boards | 1 |
| DISPUT 493/590 Internship | 2 |
| DISPUT 494/594 Workshops in Area of Emphasis | 3 |
| Total | 12 |

NOTE: The Dispute Resolution Certificate will be awarded following completion of an associate or baccalaureate degree.

## Course Offerings

**See page 53 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.

### Early Childhood — see Teacher Education programs

### Earth Science Education — see Department of Geosciences

# Department of Economics

Business Building, Room 311 — Telephone 208 426-3351
http://ec.boisestate.edu/ — Fax 208 426-2071
e-mail: econ@boisestate.edu

*Chair and Professor:* Don Holley. *Professors:* Lichtenstein, Loucks, Payne, Reynolds, Skoro, Twight. *Associate Professor:* Black. *Assistant Professor*: Raha.

## Degrees Offered

- B.A. in Economics, International Economics Emphasis
- B.A. in Economics, Quantitative Emphasis
- B.A. in Economics, Social Science Emphasis
- B.A. in Economics, Social Science, Secondary Education
- B.B.A. in Business Economics
- Minor in 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.

BSU offers two paths to a degree in economics: 1) a bachelor of arts with emphasis on social sciences, international studies, quantitative analysis, or secondary education; 2) a bachelor of business administration which includes economics and standard business courses.

## Degree Requirements

Those students considering or planning on graduate study in economics should complete a MATH 170-171 Calculus I and Lab, MATH 175 Calculus II, MATH 275 Multivariable and Vector Calculus, MATH 301 Linear Algebra, and MATH 333 Differential Equations with Matrix Theory.

## Economics
## Social Science Emphasis
## Bachelor of Arts

| Course Number and Title | Credits |
|---|---|
| ENGL 101, 102 or ENGL 111, 112 English Composition | 6 |
| **Area I — see page 40 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 40 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 40 for list of approved courses** | |
| Either MATH 143 College Algebra **AND** MATH 160 Survey of Calculus, **OR** MATH 147 Precalculus **AND** MATH 170-171 Calculus I and Lab | 7-10 |
| Area III core course in a lab science | 4 |
| ACCT 205 Introduction to Financial Accounting | 3 |
| BUSSTAT 207 Statistical Techniques for Decision Making I | 3 |
| CIS 310 Introduction to Management Information Systems | 3 |
| 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<br>Selected from anthropology, geography, history, political science, psychology, and sociology. | 15 |
| Electives to total 128 credits<br>Among these courses must be at least 6 credits in arts and humanities (Area I) or noneconomics 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. | 30-33 |
| Total | 128 |

## Economics
## Quantitative Emphasis
## Bachelor of Arts

| Course Number and Title | Credits |
|---|---|
| ENGL 101, 102 or ENGL 111, 112 English Composition | 6 |
| **Area I — see page 40 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 40 for list of approved courses** | |
| ECON 201 or ECON 201H Principles of Macroeconomics | 3 |
| ECON 202 or ECON 202H 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 40 for list of approved courses** | |
| MATH 170-171, 175 Calculus I and Lab, and Calculus II | 9 |
| Area III core course in a lab science | 4 |
| ACCT 205 Introduction to Financial Accounting | 3 |
| CIS 310 Introduction to Management Information Systems | 3 |

*— continued —*

***Economics, Quantitative Emphasis (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 |
| MATH 275 Multivariable and Vector Calculus | 4 |
| MATH 301 Linear Algebra | 4 |
| MATH 361 Probability and Statistics I **OR** BUSSTAT 207, 208 Statistical Techniques for Decision Making I & II | 4-6 |
| Upper-division decision science or math courses | 8 |
| Electives to total 128 credits<br>Among these courses must be at least 6 credits in Arts and Humanities (Area I) or noneconomics 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. | 27-32 |
| Total | 128-131 |

The international economics emphasis is a cooperative program involving the departments of economics, political science and history. Distinctive features of the international economics emphasis are: (1) 24 hours of upper-division course work in economics of which 9 must be in international-related economics electives; (2) 21 hours of upper-division political science and history courses with an international scope (not fewer than 9 in each of these two disciplines); and (3) language competency to be fulfilled by taking 16 hours of language courses. Completion of requirements will lead to a B.A. in economics with an international economics emphasis.

## Economics
## International Economics Emphasis
## Bachelor of Arts

| Course Number and Title | Credits |
|---|---|
| ENGL 101, 102 or ENGL 111, 112 English Composition | 6 |
| **Area I — see page 40 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** | |
| ECON 201 Principles of Macroeconomics | 3 |
| ECON 202 Principles of Microeconomics | 3 |
| HIST 102 History of Western Civilization **OR** HIST 105 Eastern Civilizations | 3 |
| POLS 231 International Relations | 3 |
| **Area III — see page 40 for list of approved courses** | |
| Either MATH 143 College Algebra **AND** MATH 160 Survey of Calculus, **OR** MATH 147 Precalculus **AND** MATH 170-171 Calculus I and Lab | 7-10 |
| Area III core course in a lab science | 4 |
| Foreign language<br>Competency in one language at the intermediate level is required for this emphasis. Competency may be satisfied by taking language courses (four semesters), by passing a language course at the 202-level, or by passing a language competency examination. | 16 |
| BUSSTAT 207 Statistical Techniques for Decision Making I **OR** MATH 361 Probability and Statistics I | 3-4 |
| ECON 303 Intermediate Microeconomics | 3 |
| ECON 305 Intermediate Macroeconomics | 3 |
| ECON 317 International Economics | 3 |
| ECON 421 Quantitative Methods in Economics | 3 |
| ECON 422 Econometrics | 3 |
| Upper-division economics course | 3 |
| International economics course chosen from ECON 315, ECON 319, ECON 480, ECON 496/497/498, or other international related economics courses. | 6 |

*— continued —*

| *Economics, International Economics Emphasis (continued)* | |
|---|---|
| History courses chosen from HIST 307, 308, 312, 317, 327, 329, 330, 331, 332, 335, 368, 468, 481, 482 and<br>Political science courses chosen from POLS 311, 321, 324, 329, 333, 335, 421, 429<br>A total of 21 hours must be taken from political science and history, with a minimum of 9 hours from each. The department also recommends that each student consider participating in a studies abroad program as a way to gain international experience and to meet course requirements, especially in language and electives. | 21 |
| Electives to total 128 credits<br>Electives from economics or from the following list are recommended: ACCT 205, ANTH 102, FINAN 430, GEOG 311, 340, 350, FREN 376, GERM 377 or SPAN 376, SPAN 377, MKTG 430 | 20-23 |
| Total | 128 |

The social science, secondary education emphasis programs are cooperative, multidisciplinary programs involving the departments of economics, history, political science, sociology, and anthropology. Each of these departments, except history, provides a major emphasis with the social science, 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 Science Secondary Education Emphasis Bachelor of Arts

| Course Number and Title | Credits |
|---|---|
| ENGL 101, 102 or ENGL 111, 112 English Composition | 6 |
| **Area I — see page 40 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 or ECON 201H Principles of Macroeconomics | 3 |
| ECON 202 or ECON 202H Principles of Microeconomics | 3 |
| HIST 111, 112 U. S. History | 6 |
| POLS 101 American National Government | 3 |
| **Area III — see page 40 for list of approved courses** | |
| MATH 130, Finite Mathematics | 4 |
| 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 |
| Social science field other than economics | 21 |
| Courses from three of the following fields: anthropology world history, political science, sociology, and geography | 9 |
| EDUC 201 Foundations of Education | 3 |
| EDUC 202 Educational Technology – Classroom Applications | 3 |
| EDUC 301 Teaching: Experience I | 1 |
| EDUC 302 Learning and Instruction | 4 |
| EDUC 350 Teaching Students with Exceptional Needs at the Secondary Level | 3 |
| EDUC 401 Professional Year - Teaching Experience II | 2 |
| EDUC 402 Content Literacy for Secondary Students | 3 |
| EDUC 405 Teaching Secondary Social Studies | 3 |
| Teaching Experience III/IV | 16 |
| NOTE: Completion of all requirements for graduation with a secondary education option may require more than 128 credit hours. See "Teacher Education" for more information. | |
| Total | 134 |

## 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. | |

## Business Economics Bachelor of Business Administration

| Course Number and Title | Credits |
|---|---|
| ENGL 101, 102 or ENGL 111, 112 English Composition | 6 |
| **Area I — see page 40 for list of approved courses** | |
| Area I core courses | 6 |
| **Area II — see page 40 for list of approved courses** | |
| ECON 201 or 201H Principles of Macroeconomics | 3 |
| ECON 202 or 202H Principles of Microeconomics | 3 |
| Area II core courses other than economics | 6 |
| **Area III — see page 40 for list of approved courses** | |
| Area III core course (MATH 143 or MATH 147) | 3-5 |
| Area III core course (MATH 160 or MATH 170-171) | 4-5 |
| 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, geography, history, political science, psychology, social work, sociology, teacher education); **Natural Sciences and Mathematics** (biological sciences, physical sciences, mathematics)<br>No more than 3 credits may be fitness/kinesiology activity courses. Telecourses are excluded. | 17-20 |
| *ACCT 205 Introduction to Financial Accounting | 3 |
| *ACCT 206 Introduction to Managerial Accounting | 3 |
| *BUSCOM 328 Business Communications | 3 |
| BUSSTAT 207, 208 Statistical Techniques for Decision Making I & II | 6 |
| *CIS 310 Introduction to Management Information Systems | 3 |
| 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 |
| *MGMT 301 Leadership Skills | 3 |
| *MKTG 301 Principles of Marketing | 3 |
| *-**OPERMGT 345 Principles of Production Management | 3 |
| ***Electives to total 128 credits | 10 |
| Total | 128 |
| NOTES: *At least 32 of these business credits must be taken at Boise State University.<br>**Must be completed with grades of 'C' or higher before taking GENBUS 450.<br>***Please refer to the B.B.A., B.A., or B.S. requirements in Chapter 11 for explanation.<br>Upper-division majors are assumed to have basic database, spreadsheet, and word processing skills. Students lacking these skills should take CIS 104, 105, 106. | |

Any BSU 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 53 for a definition of the course-numbering system.**

**ECON — ECONOMICS**

**Lower Division**

**ECON 201 PRINCIPLES OF MACROECONOMICS (3-0-3)(Area II)(Formerly ECON 206).** 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)(Formerly ECON 205).** 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.

**ECON 210 CONTEMPORARY ECONOMIC PROBLEMS (3-0-3)(F/S).** A one-semester introduction to economics centered around selected contemporary economic problems. Principles are introduced to help analyze problems and point out alternative solutions. Not allowed as part of the economics major requirements. Not allowed for credit to those students who have taken ECON 201 and ECON 202.

**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. This course 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 COMPARATIVE ECONOMIC SYSTEMS (3-0-3)(S).** A comparative study of the goals and methods of various economic systems, including competitive market capitalism, centrally-planned administrative socialism, and worker self-management. Topics include each system's ideological foundations, institutions of property ownership, and economic decision-making mechanisms. The problem of transforming centrally-planned socialist economies into market economies also will be studied. PREREQ: ECON 201 and ECON 202 or PERM/INST.

**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 319 DEVELOPMENT ECONOMICS (3-0-3)(F/S)(Alternate years).** This course examines economic development within the context of a global political economy. Alternative development paradigms and resulting policy prescriptions will be studied. The record of successes and failures of developing countries will be evaluated and these countries' common characteristics compared. Specific topics will include development and income distribution, resource mobilization, agricultural and industrial development, human resource development, the role of international agencies, international trade relations, and foreign aid and investment. 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).** 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 417 (HIST 417) U.S. 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. This course 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 2-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 2-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).** This course examines the economic issues associated with those individual and social decisions that influence the health of particular groups. The course also 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 of the course is 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 *BSU Directory of Classes* for specific selection offered. Seminar may be repeated. PREREQ: ECON 201 and ECON 202 or PERM/INST.

**ECON 493 ECONOMICS INTERNSHIP (number of credits varies).** 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.

## Education, Foundations, Technology and Secondary Education — see Teacher Education

# Department of Electrical and Computer Engineering

Engineering and Technology Building, Room 240 Telephone 208 426-2417
http://coen.boisestate.edu/dep/ee.htm Fax 208 426-2470

*Chair and Professor:* Gary Erickson. *Associate Professors:* Ahmed-Zaid, Baker, Burkett, Hartman, Parke, Rafla. *Assistant Professors*: Barney Smith, Duttagupta, Knowlton, Smith.

## Degrees Offered

- Bachelor of Science in Electrical Engineering (B.S.E.E.)
- Master of Science in Engineering (M.S.E.) (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. BSU offers five major areas of concentration:

- semiconductor processing
- IC design
- communication 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.

### 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 40 for list of approved courses** | |
| Area I core course in one field | 3 |
| Area I core course in a second field | 3 |
| ***Area II — see page 40 for list of approved courses** | |
| COMM 101 Fundamentals of Speech Communication | 3 |
| Area II core course in a second field | 3 |
| ***Area I-II Depth Elective** | |
| Area I core course in a third field **AND** - an elective depth course** chosen from anthropology, communication, economics, geography, history, political science, psychology, or sociology which either has an Area II core course as a prerequisite or is upper-division **OR** Area II core course in a third field **AND** an elective depth course** chosen from art, literature, humanities, music, philosophy, theatre arts, or a foreign language other than English or the student's native language which either has an Area I core course as a prerequisite or is upper-division. | 6 |
| **Area III** | |
| Area III requirements are automatically met by specific courses included in the major requirements below. | |

*— continued —*

***Electrical Engineering (continued)***

| | |
|---|---|
| CHEM 111 College Chemistry | 4 |
| COMPSCI 117 Introduction to C++ **OR** COMPSCI 125 Introduction to Computer Science I | 3-4 |
| EE 222, 222L Signals and Transforms and Lab | 4 |
| EE 320 Semiconductor Devices | 3 |
| EE 322, 322L Microelectronic Circuits and Lab | 4 |
| EE 330, 330L Digital Systems and Lab | 4 |
| EE 332, 332L Microprocessors and Lab | 4 |
| EE 370 Electromechanical Systems | 3 |
| EE 390 Electromagnetic Fields | 3 |
| EE 450 Communication Systems | 3 |
| EE 460 Control Systems | 3 |
| EE 480, 482 Senior Design Project I, II | 4 |
| ENGL 202 Technical Communication | 3 |
| ENGR 120 Introduction to Engineering | 3 |
| ENGR 240, 240L Introduction to Electric Circuits and Lab | 4 |
| ENGR 399 Engineering Seminar | 1 |
| MATH 170-171, 175 Calculus I and Lab, and Calculus II | 9 |
| 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 Mechanics, Waves, and Heat and Lab | 5 |
| PHYS 212, 212L Electricity, Magnetism, and Optics and Lab | 5 |
| *Electrical Engineering electives | 9 |
| *Electrical Engineering Lab elective | 1 |
| *Engineering Science elective | 3 |
| *Technical electives | 6 |
| Elective to total 129 hours | 0-3 |
| Total | 129 |

NOTE: *All university core courses and technical and design electives must be approved by the student's advisor.
**Courses that instill cultural values are acceptable while routine exercises of personal craft are not. Students wanting to use ART 290 as an in-depth Art course must take an Area I core Art course as a prerequisite to ART 290.

## Course Offerings

**See page 53 for a definition of the course-numbering system.**

**ENGR — ENGINEERING SCIENCE**

**See page 97 for the listing of ENGR courses.**

**EE — ELECTRICAL ENGINEERING**

**Lower Division**

**EE 222 SIGNALS AND TRANSFORMS (3-0-3)(F/S).** Second order circuits, frequency domain. Bode plots, Fourier transforms, Laplace transforms, introduction to s-plane analysis, and network parameters. Basics of Amplitude Modulation and Frequency Modulation. Design of simple systems. PREREQ: MATH 333 and ENGR 240 or PERM/INST.

**EE 222L SIGNALS AND TRANSFORMS LAB (0-3-1)(F/S).** Laboratory exercises to accompany Signals and Transforms. Use of modern frequency domain analyzers, time and frequency domain measurements. COREQ: EE 222.

**EE 240 INTRO TO MICROELECTRONICS (1-0-1)(F/S).** Introduction to design, fabrication, test, and industry market trends of semiconductor integrated circuits. Historical perspective, typical process flows, photolithography, thin-film deposition and etching, thermal processing, chemical-mechanical planarization. Case studies of ASIC, DRAM, microprocessor, EEPROM processes. Fabrication tools and economics. PREREQ: CHEM 111.

**Upper Division**

**EE 320 SEMICONDUCTOR DEVICES (3-0-3)(F/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: CHEM 111, ENGR 240.

**EE 320L DEVICE CHARACTERIZATION LAB (0-3-1)(F/S).** Measurement of PN junction, BJT, and MOSFET I-V and C-V characteristics by on-wafer probing. SPICE model parameter extraction. COREQ: EE 320.

**EE 322 MICROELECTRONIC CIRCUITS (3-0-3)(F/S).** Single and multistage MOS and MJT amplifiers, differential amplifiers, frequency response, stability and feedback, operational amplifiers, CMOS digital gate design. Includes a semester design project. PREREQ: EE 222.

**EE 322L MICROELECTRONIC CIRCUITS LAB (0-3-1)(F/S).** Design, construction, and test of multistage amps, digital gates, and op-amps circuits utilizing SPICE computer-aided

design, breadboards, signal generators, oscilloscopes, spectrum analyzers. COREQ: EE 322.

**EE 330 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 225.

**EE 330L 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: EE 330.

**EE 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: EE 330.

**EE 332L MICROPROCESSORS LAB (0-3-1)(F/S).** Lab work on microprocessors using a Macroassembler and a hardware experimentation kit. COREQ: EE 332.

**EE 340 INTRO TO INTEGRATED CIRCUIT PROCESSING (3-0-3)(F/S).** Integrated circuit fabrication technology, mask layout, diffusion, ion implantation, oxidation, thin-film deposition, annealing, lithography, etching, packaging, testing. PREREQ: CHEM 111, PHYS 212.

**EE 340L INTRO TO INTEGRATED CIRCUIT PROCESSING LAB (0-3-1)(F/S).** Cleanroom wafer processing lab. Students will fabricate and test simple structures in the laboratory. PREREQ: CHEM 111, PHYS 212. COREQ: EE 340.

**EE 370 ELECTROMECHANICAL SYSTEMS (3-0-3)(F/S).** Magnetic materials and circuits, transformers, relays, actuators, DC and AC rotating machines. Principles of electromechanical energy conversion, energy and coenergy concepts, forces and torques of electromagnetic origin. Steady-state and transient analysis of electromechanical motion devices and systems. PREREQ: EE 222 and EE 390.

**EE 370L ELECTROMECHANICAL SYSTEMS LAB (0-3-1)(F/S).** Lab work on electromechanical systems and devices. COREQ: EE 370.

**EE 374 POWER SYSTEM ANALYSIS (3-0-3)(F/S).** Three-phase AC systems, generators, transformers, transmission lines, one-line diagrams, per-unit systems, network calculations, power-flow studies, power-flow control and regulation. PREREQ: ENGR 240, EE 390.

**EE 376 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: ENGR 240 or PERM/INST.

**EE 390 (PHYS 381) ELECTROMAGNETIC FIELDS (3-0-3)(F/S).** Review of vector calculus, Maxwell's equations in integral and differential forms, propagation of uniform plane waves in free space and material media, transmission lines, introduction to radiation theory and antennas. This course may be taken for either EE or PHYS credit, but not both. PREREQ: MATH 275 and PHYS 212.

**EE 410 INTEGRATED CIRCUIT PHYSICAL DESIGN (3-0-3)(F/S).** 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 EE 440. PREREQ: EE 320. COREQ: EE 322.

**EE 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: EE 322, EE 410.

**EE 412 VLSI DESIGN (3-0-3)(F/S).** The design of ultra large scale integrated circuits using VERILOG and VHDL, or other hardware description languages. Using a silicon compiler to turn the HDL circuit description into a file that can be used to make the circuit. Includes packaging, testing and reliability issues. PREREQ: EE 330 and COMPSCI 117 or COMPSCI 125.

**EE 413 RF IC DESIGN (2-1-3)(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: EE 410 or EE 411.

**EE 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: EE 320.

**EE 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: EE 420.

**EE 422 ADVANCED MICROELECTRONIC CIRCUITS (3-0-3)(F/S)(Alternate years).** Advanced topics in analog system design emphasizing the specification and design of advanced analog systems. Applications include design of multistage transistor amplifiers using bipolar and CMOS devices. Power output stages, linear and nonlinear op-amp circuits including compensation techniques, and power supply design are also covered. PREREQ: EE 322.

**EE 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: EE 330 and COMPSCI 117 or COMPSCI 125.

**EE 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: EE 430.

**EE 432 (COMPSCI 441) COMPUTER ARCHITECTURE (3-0-3)(F/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 tradeoffs involved in the design of computer systems. Applications of Hardware Description Languages (HDL) in the design of computer systems. This course may be taken for either EE or COMPSCI credit, but not both. PREREQ: EE 332 and COMPSCI 117 or COMPSCI 125.

**EE 433 EMBEDDED AND PORTABLE COMPUTING SYSTEMS (3-0-3)(F/S).** Concept of embedded systems and hardware-software co-designed systems. Design methodology, hierarchy, function decomposition and interprocess interfacing, hardware-software implementation evaluation. Design of real-time operating system (RTOS) kernels. Study of RTOS basic concepts, process management, interprocess communication and synchronization, memory and resource management. Case study of portable computing systems and architectures. PREREQ: EE 332.

**EE 434 COMPUTER NETWORKS (3-0-3)(F/S)(Offered on demand).** 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: EE 332, and MATH 360 or MATH 361.

**EE 440 ADVANCED INTEGRATED CIRCUIT PROCESSING (3-0-3)(F/S).** Thin-film materials deposition and etching techniques, Oxidation, Chemical Vapor Deposition, Sputtering, Plasma etching, Wet Cleaning, Rapid Thermal Processing, Chemical-Mechanical Planarization, ellipsometry, reflectometry, interferometry, emission spectroscopy. Use of TCAD software and the semiconductor processing lab to fabricate a CMOS test chip. PREREQ: EE 340.

**EE 440L ADVANCED INTEGRATED CIRCUIT PROCESSING LAB (0-3-1)(F/S).** Cleanroom wafer processing lab accompanying EE 440. Use of TCAD software and the semiconductor processing lab to fabricate a CMOS test chip. PREREQ: EE 340. COREQ: EE 440.

**EE 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: EE 340.

**EE 442L PHOTOLITHOGRAPHY LAB (0-3-1)(F/S).** Cleanroom lab experience accompanying EE 442, utilizing a projection-printing wafer stepper, photoresist wafer track, SEM, and optical metrology equipment. Use of TCAD lithography simulation software. PREREQ: EE 342. COREQ: EE 442.

**EE 450 COMMUNICATION SYSTEMS (3-0-3)(F/S).** Signals, noise, propagation and protocol in analog and digital communication systems. Bandwidth, Fourier transforms, signal to noise ratio and receiver noise figures. Introduction to modern wireless communication systems such as cellular, wireless data and satellite data systems. PREREQ: EE 222, MATH 360 or 361.

**EE 450L COMMUNICATIONS LAB (0-3-1)(F/S).** Lab experience accompanying EE 450 utilizing AM/FM modulation, spectrum analysis, receiver design and analysis. PREREQ: EE 222. COREQ: EE 450.

**EE 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: EE 450.

**EE 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: EE 222.

**EE 456 PATTERN RECOGNITION (3-0-3)(F/S).** Basic concepts of pattern recognition, neural networks, and fuzzy logic. Implementation of current and coherent pattern recognition algorithms. Focus is on electronic devices, processing, inspection, and flaw detection. PREREQ: EE 332, and MATH 360 or MATH 361.

**EE 460 CONTROL SYSTEMS (3-0-3)(F/S).** Analysis and design of continuous-time feedback control systems. Modeling of physical systems, block diagrams and signal-flow graphs, feedback, steady-state and transient specifications, stability, root locus plots, compensator design. PREREQ: EE 222.

**EE 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 relations; manipulator dynamics; digital simulation of manipulator motion; motion planning; actuators of robots; sensors of robots; obstacle avoidance; and control design. PREREQ: EE 460.

**EE 470 ELECTRIC MACHINES AND DRIVES (3-0-3)(F/S)(Alternate years).** Power electronic switches and converters. Induction machines and drives, direct-current and permanent-magnet machines and drives, synchronous machines and drives, control of single-phase and special machines. PREREQ: EE 320, EE 370.

**EE 470L ELECTRIC MACHINES AND DRIVES LAB (0-3-1)(F/S)(Alternate years).** Lab work on electric machines and drives. COREQ: EE 470.

**EE 472 POWER ELECTRONICS (3-0-3)(F/S)(Alternate years).** Power electronic switches, diode and controlled rectifiers, AC-AC phase control, DC-DC converters,

inverters, introduction to electric drives and power quality fundamentals. PREREQ: EE 320, EE 370.

**EE 472L POWER ELECTRONICS LAB (0-3-1)(F/S)(Alternate years).** Lab work on power electronic circuits and devices. COREQ: EE 472.

**EE 474 POWER SYSTEM CONTROL (3-0-3)(F/S).** Faulted power system operation, symmetrical components, power system protection, transient stability, economic dispatch, automatic generation control, voltage and reactive power control. PREREQ: EE 374.

**EE 480, 482 SENIOR DESIGN PROJECT I, II (1-3-2)(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. Prerequisite: EE 322, EE 332, and EE 370; for EE 482: EE 480.

## Elementary Education and Specialized Studies, Department of — see Teacher Education

# Engineering Science

Engineering and Technology Building, Room 101 Telephone 208 426-1153
http://coen.boisestate.edu/ Fax 208 426-4466

Engineering Science courses are included as major elements in the program curricula of Civil, Electrical and Mechanical Engineering and of Construction Management. These courses are administered and taught by the Departments in the College of Engineering.

## Course Offerings

**See page 53 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 105 ENGINEERING GRAPHICS (2-2-2)(F,S).** Engineering graphical analysis and graphic transmission of information including use of microcomputer design and drafting systems. PREREQ: MATH 108 or equivalent mathematics background.

**ENGR 107 COMPUTER FUNDAMENTALS AND PROGRAMMING (3-0-3)(F/S).** Overview of the engineering and construction professions utilizing the computer for engineering analysis and problem-solving emphasizing programming, spreadsheets, and other computer applications. PREREQ: MATH 108 or equivalent.

**ENGR 120 INTRODUCTION TO ENGINEERING (1-4-3)(F/S).** The engineering profession and professional organizations, application of computer software to solving engineering problems, and introduction to the design process. Student design projects emphasize critical thinking and teamwork, and require oral and written presentations. PREREQ: MATH 147 or MATH 143 and MATH 144.

**ENGR 130 PROBLEM SOLVING WITH COMPUTERS (2-0-2)(F,S).** Engineering problem solving methods and techniques. Analysis of problems, iterative solutions, and documentation using spreadsheets. Flow charting, graphing, importing data, numerical mathematics, solving simultaneous equations, VBA and macro applications. PREREQ: MATH 160 or MATH 147.

**ENGR 205 MECHANICS/STATICS (3-0-3)(F,S).** Covers basic statics including equilibrium, analysis of trusses, frames, and machines, centroids, static friction, and moments of inertia. PREREQ: MATH 170-171 or PERM/INST.

**ENGR 210 ENGINEERING STATICS (3-0-3)(F/S).** Force and moment equilibria applied to engineering systems including structures and machines. Two and three dimensional applications of scalars and vectors, free body diagrams, and methods and procedures of engineering analysis. PREREQ: ENGR 120, 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 223 MATERIAL AND ENERGY BALANCES (3-0-3)(F)(Alternate years).** Conservation of mass and energy in chemical process systems. PREREQ: CHEM 112, MATH 175.

**ENGR 240 INTRODUCTION TO ELECTRIC CIRCUITS (3-0-3)(F/S).** Electrical circuits and basic network analysis. Simple resistive, capacitive and inductive circuits, network theorems, and circuit analysis methods for DC and AC circuits. Introduction to computer-aided circuit simulation.PREREQ: ENGR 120 PREREQ or COREQ: MATH 333.

**ENGR 240L ELECTRIC CIRCUITS LAB (0-3-1)(F/S).** Emphasizes the use of breadboards, power supplies, multimeters, waveform generators, and oscilloscopes, as well as proper measurement techniques. COREQ: ENGR 240.

**ENGR 242 MICROELECTRONIC MATERIALS (3-0-3)(F/S).** Introduction to the materials science and engineering of metals, electronic and magnetic materials, polymers, composites, and ceramics. Bonding; crystal structure and lattice defects; energy bands in solids; solid state diffusion; phase diagrams; mechanical properties; electrical conduction; and magnetic behavior of materials for engineering applications. PREREQ: CHEM 111, MATH 175.

**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 333, and either MATH 275 or MATH 272.

**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 399 ENGINEERING SEMINAR (1-0-1)(F/S).** Development of skills used in the engineering profession. Individual and group behavior, teamwork, effective meetings, engineering ethics, safety, law, project management, and engineering proposal development. Group projects are used to develop communications skills as applied in engineering practice. PREREQ: COMM 101, ENGL 202, and either ENGR 220 or EE 222.

# Department of English

Liberal Arts Building, Room 228 Telephone 208 426-1246
http://english.boisestate.edu/ Fax 208 426-4373
e-mail: anelson2@boisestate.edu

*Chair and Associate Professor:* R. Ken Sanderson. *Director of Graduate Studies in English and Professor:* Carol Martin. *Director of Undergraduate Studies in English and Professor:* Dale K. Boyer. *Director of Technical Communication and Professor:* Mike Markel. *Professors:* Davis, Dayley, Leahy, Lojek, Maguire, Markel, Martin, Trusky, Widmayer, Zaerr. *Associate Professors:* Ballenger, Battalio, Guilford, Olmstead, Robbins, Ryder, R. Sanderson, R. K. Sanderson, Uehling. *Assistant Professors:* Ackley, Cook, Corless-Smith, Evett, Hadden, Holmes, McGuire, Olsen-Smith, Payne, Penry, Simon, Wieland.

## Degrees Offered

- B.A. and Minor in English, Liberal Arts
- B.A. in English, General Literature Emphasis
- B.A. in English, Linguistics Emphasis
- B.A. in English Teaching
- B.A. in English, Technical Communication Emphasis
- B.A. in English, Writing Emphasis
- M.A. in English (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 Advanced Certificate in Technical Communication

## Department Statement

The major in English has traditionally served to develop skills of imagining, reasoning, and communicating. English majors learn to approach matters from a variety of points of view, to recognize patterns of information or ideas from incomplete reports, and to understand other people and abstract principles. For these reasons, the major in English has provided one of the most successful preparations for professional degrees in law, medicine, and commerce.

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 liberal arts emphasis includes a foreign-language requirement that helps students prepare for careers in international contexts and for graduate programs with a foreign-language requirement. The English teaching emphasis fulfills Idaho certification requirements and prepares students to teach in school districts throughout the country. The general literature emphasis, by limiting specific departmental requirements, offers students flexibility in designing their programs to lead to specific graduate programs or to fulfilling personal interests and goals. The linguistics emphasis provides the opportunity for closer study of how language works and its connections with related fields such 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 technical communication emphasis, which focuses on writing, editing, and print and electronic document production, prepares students for careers in business and industry and for professional writing in the health fields and in science. The writing emphasis prepares professional writers for freelance writing, writing for the fiction and poetry markets, editing, and book and periodical production.

## Degree Requirements

### English, Liberal Arts Emphasis
### Bachelor of Arts

| Course Number and Title | Credits |
|---|---|
| ENGL 101, 102 or ENGL 111, 112 English Composition | 6 |
| **Area I — see page 40 for list of approved courses** | |
| ENGL 267 and 268 Survey of British Literature | 6 |
| Foreign language 201-202<br>Competence in a foreign language equivalent to two years of university instruction. | 8 |
| **Area II — see page 40 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 40 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 275 Intro to Literary Studies | 3 |
| ENGL 345 or 346 Shakespeare | 3 |
| ENGL 393 History of Literary Criticism | 3 |
| ENGL 498 Senior Seminar | 3 |
| American literature, chosen from ENGL 277, 278, 378, 384 | 3 |
| LING 305 Introduction to Language Studies | 3 |
| LING 309 History of the English Language | 3 |
| Pre-1800 British Literature chosen from ENGL 340, 341, 348, 349, 350, 351, 356, 358, 359 | 6 |
| Post-1800 British-American Literature chosen from ENGL 360, 365, 366, 369, 377, 378, 384, 386, 387, 389, 390, 485, 486 | 6 |
| Upper-division English courses | 9 |
| Electives to total 128 credits | 41-43 |
| Total | 128 |

### English Teaching
### Bachelor of Arts

| Course Number and Title | Credits |
|---|---|
| ENGL 101, 102 or ENGL 111, 112 English Composition | 6 |
| **Area I — see page 40 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 40 for list of approved courses** | |
| COMM 101/112 Communication course | 3 |
| EDUC 201 Foundations of Education | 3 |
| Area II core course in history | 3 |
| Area II core course in any field | 3 |
| **Area III — see page 40 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 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<br>(of these 18, 15 must be upper division and no more than 3 credits may be internship)<br>To be approved for student teaching in English, students must complete:<br>a. all required courses. In some cases the department may approve enrollment in no more than two courses concurrent with student teaching.<br>b. at least one American literature and one British literature course.<br>c. a speech communication class. The department recommends COMM 101 or COMM 112 which will also give partial fulfillment of Area II core.<br>d. a 2.50 cumulative grade point average and a 2.50 grade point average in the major.<br>e. Idaho certification requirements. | 18 |
| EDUC 202 Educational Technology – Classroom Applications | 3 |
| EDUC 301 Teaching: Experience I | 1 |
| EDUC 302 Learning and Instruction | 4 |
| EDUC 350 Teaching Students with Exceptional Needs at the Secondary Level | 3 |
| EDUC 401 Professional Year - Teaching Experience II | 2 |
| EDUC 402 Content Literacy for Secondary Students | 3 |
| Teaching Experience III/IV<br>NOTE: Completion of all requirements for graduation with a secondary education option may require more than 128 credit hours. See "Teacher Education" for more information. | 16 |
| Electives to total 128 credits | 10-18 |
| Total | 128 |

### English, General Literature Emphasis
### Bachelor of Arts

| Course Number and Title | Credits |
|---|---|
| ENGL 101, 102 or ENGL 111, 112 English Composition | 6 |
| **Area I — see page 40 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 —*

| *English, General Literature Emphasis (continued)* | |
|---|---|
| **Area II — see page 40 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 40 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 275 Intro to Literary Studies | 3 |
| ENGL 393 History of Literary Criticism | 3 |
| ENGL 498 Senior Seminar | 3 |
| Survey course, chosen from ENGL 257, 258, 267, 268, 277, or 278 | 3 |
| Completion of an additional 33 credits in English or linguistics, excluding ENGL 101, ENGL 102, ENGL 111 and ENGL 112.<br>a. Of these credits, 27 must be upper-division<br>b. Of the upper-division credits, 12 must be in pre-twentieth century British literature<br>c. No more than 9 credits may be in English or linguistics special topics courses | 33 |
| LING 305 Introduction to Linguistics | 3 |
| Upper-division electives to total 40 credits | 4 |
| Electives to total 128 credits | 33-35 |
| Total | 128 |

## English, Linguistics Emphasis
## Bachelor of Arts

| Course Number and Title | Credits |
|---|---|
| ENGL 101, 102 or ENGL 111, 112 English Composition | 6 |
| **Area I — see page 40 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 40 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 40 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 275 Intro to Literary Studies | 3 |
| ENGL 498 Senior Seminar | 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 (COMM 122 Introduction to Sign Language and COMM 322 Intermediate Sign Language may be used to satisfy this requirement) | 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 | 0-7 |
| Electives to total 128 credits | 26-32 |
| Total | 128 |

## English, Technical Communication Emphasis
## Bachelor of Arts

| Course Number and Title | Credits |
|---|---|
| ENGL 101, 102 or ENGL 111, 112 English Composition | 6 |
| **Area I — see page 40 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 40 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 40 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 |
| CIS 310 Introduction to Management Information Systems | 3 |
| ENGL 201 Nonfiction Writing | 3 |
| ENGL 275 Introduction to Literary Studies | 3 |
| ENGL 302 Technical Rhetoric | 3 |
| ENGL 401 Advanced Nonfiction Writing | 3 |
| ENGL 402 Advanced Technical Communication | 3 |
| ENGL 403 Technical Editing | 3 |
| ENGL 405 Print Document Production | 3 |
| ENGL 415 On-screen Document Production | 3 |
| ENGL 493 Internship | 6 |
| Communication courses chosen from COMM 101 Fundamentals of Speech, COMM 302 Research Methods, COMM 304 Perspectives of Inquiry, COMM 307 Interviewing, COMM 321 Rhetorical Theories, COMM 361 Organizational Communication, COMM 390 Conflict Management, COMM 478 Public Relations,COMM 481 Studies in Interpersonal Communication, COMM 483 Studies in Organizational Communication, and COMM 484 Studies in Rhetoric and Public Persuasion. | 3 |
| Linguistics courses chosen from LING 305, LING 306, LING 406 | 6 |
| Management, sociology and general business courses chosen from GENBUS 441 Business, Government, and Society, MGMT 301 Leadership Skills, MGMT 401 Organizational Behavior, MGMT 405 Management of Continuous Learning, and SOC 487 Organizational Theory and Bureaucratic Structure | 3 |
| Upper-division literature courses | 3 |
| Upper-division electives to total 40 credits | 0-1 |
| Electives to total 128 credits | 33-36 |
| Total | 128 |

## English, Writing Emphasis
## Bachelor of Arts

| Course Number and Title | Credits |
|---|---|
| ENGL 101, 102 or ENGL 111, 112 English Composition | 6 |
| **Area I — see page 40 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 40 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 |

*— continued —*

| *English, Writing Emphasis (continued)* | |
|---|---|
| **Area III — see page 40 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 201 Nonfiction Writing | 3 |
| ENGL 202 Technical Communication **OR** | 3 |
| ENGL 302 Technical Rhetoric (Students take ENGL 302 if they plan to go on to ENGL 402 Advanced Technical Communication.) | |
| 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)<br>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 | 30-32 |
| Total | 128 |

## English Minor

| Course Number and Title | Credits |
|---|---|
| Writing course numbered 200 or higher | 3 |
| 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 |
| Total | 21 |

## Minor Teaching Endorsement in English

| 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 |
| ENGL 301 or 381 methods course | 3 |
| LING 305 Introduction to Language Studies | 3 |
| Upper-division literature course | 3 |
| Writing courses numbered 200 or higher | 6 |
| Total | 24 |
| Students who wish to student teach in English must gain English department approval through successful completion of the English Teaching Portfolio Review. | |

## 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 and the Advanced Certificate in Technical Communication are intended to enhance the education of students who are seeking a baccalaureate degree or who already have a baccalaureate degree. Each 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.

The Certificate in Technical Communication is intended for undergraduate students or post-baccalaureate students who wish to improve their skills as communicators. The Advanced Certificate in Technical Communication is intended for advanced undergraduate and graduate students.

## Certificate in Technical Communication

| Course Number and Title | Credits |
|---|---|
| ENGL 302 Technical Rhetoric | 3 |
| ENGL 402 Advanced Technical Communication | 3 |
| ENGL 403 Technical Editing | 3 |
| Two of the following courses:<br>ART 105 Basic Design<br>ART 106 Basic Design<br>ART 156 Architectural Graphic Communication<br>CIS 310 Introduction to Management Information Systems<br>COMM 221 Interpersonal Communication<br>COMM 231 Public Speaking<br>COMM 255 Introduction to Communication Training & Development<br>COMM 307 Interviewing<br>COMM 356 Communication in Small Groups<br>COMM 361 Organizational Communication<br>COMM 478 Public Relations<br>COMM 481 Studies in Interpersonal Communication<br>ENGR 105 Engineering Graphics<br>GENBUS 360 Business Ethics and Social Responsibility<br>LING 305 Introduction to Language Studies<br>MGMT 401 Organizational Behavior<br>MGMT 405 Management of Continuous Learning<br>MKTG 306 Marketing Communications<br>SOC 390 Conflict Management<br>SOC 487 Organizational Theory and Bureaucratic Structure | 5-6 |
| Total | 14-15 |

## Advanced Certificate in Technical Communication

| Course Number and Title | Credits |
|---|---|
| ENGL 512 Technical Rhetoric and Applications | 3 |
| ENGL 513 Technical Editing | 3 |
| ENGL 514 Technical Communication Ethics | 3 |
| Two of the following courses:<br>CIS 310 Introduction to Management Information Systems<br>COMM 307 Interviewing<br>COMM 361 Organizational Communication<br>COMM 478 Public Relations<br>COMM 481 Studies in Interpersonal Communication<br>EDUC 574 Instructional Courseware Design<br>ENGL 511 Introductory Seminar in Technical Communication<br>ENGL 515 Visual Rhetoric and Information Design<br>ENGL 516 Topics in Print Document Production<br>ENGL 517 Oral Communication for Technical Communicators<br>ENGL 518 Writing for the Computer Industry<br>ENGL 519 Technical Publications Management<br>ENGL 521 Topics in On-Screen Document Production<br>IPT 537 Instructional Design<br>LING 305 Introduction to Language Studies<br>MGMT 401 Organizational Behavior<br>MGMT 405 Management of Technology<br>MKTG 306 Promotion Management<br>SOC 390 Conflict Management<br>SOC 487 Organizational Theory and Bureaucratic Structure | 6-7 |
| 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 11, "Obtaining a Degree at BSU."

## 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 53 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 111, 112 HONORS COMPOSITION (3-0-3)(Core).** Provides superior student challenge emphasizing independent study and original writing. Introduction to critical writing and study of ideas through literature. Honors 111 concentrates on lyric poetry, essays, and short fiction. Honors 112 concentrates on epic poetry, drama, and the novel. Normal prerequisite: SAT or ACT of 80th percentile or above for ENGL 111. PREREQ: ENGL 111 or PERM/CHAIR for ENGL 112.

**ENGL 121 ENGLISH AS A SECOND LANGUAGE (5-0-3)(F/S).** Special emphasis on vocabulary development, reading, and development of skills in written English. Graded Pass/Fail. PREREQ: Placement exam and recommendation from Foreign Student Admissions.

**ENGL 122 COMPOSITION AND READING FOR FOREIGN STUDENTS (5-0-3)(F/S).** Practice in reading and composition, development of special vocabulary skills related to individual needs, and advanced English sentence structure. Graded Pass/Fail. PREREQ: Placement exam and recommendation from Foreign Student Admissions or grade of Pass in ENGL 121.

**ENGL 123 ADVANCED ENGLISH COMPOSITION FOR FOREIGN STUDENTS (5-0-3)(F/S).** Study of and practice in the principles of formal and informal written English, principles of the essay and research paper, continuation of vocabulary development, and mastery of the more complex types of English structure. Successful completion of the competency exam required. Graded Pass/Fail. Successful completion of ENGL 123 qualifies the student for entrance into ENGL 101. PREREQ: Placement exam and recommendation from Foreign Student Admissions or grade of Pass in ENGL 122.

**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 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).** 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 215 FAR EASTERN LITERATURE, IN TRANSLATION (3-0-3)(S)(Area I).** Survey of literature of Far Eastern countries with major emphasis on China, India, and Japan. An introduction to the cultural and religious environment of each country is covered. 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)(Formerly ENGL 230).** 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)(Formerly ENGL 235).** 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)(Formerly ENGL 240).** 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)(Formerly ENGL 260).** 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)(Formerly ENGL 271).** This course traces the artistic, philosophic, social, scientific, and intellectual influences on American writers and the emergence of an independent American outlook, as seen in the literary works of such authors as Bradstreet, Thoreau, Hawthorne, Melville, Emerson, Whitman, and Stowe. PREREQ: ENGL 102.

**ENGL 278 SURVEY OF AMERICAN LITERATURE: CIVIL WAR TO PRESENT (3-0-3)(F/S)(Area I)(Formerly ENGL 272).** This course traces the continued development of American literary thought as revealed in the works of such authors as Dickinson, Twain, James, Wharton, Cather, Hemingway, Eliot, Faulkner, and Morrison. PREREQ: ENGL 102.

**Upper Division**

**ENGL 301 TEACHING ENGLISH COMPOSITION (3-0-3)(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 in-service teaching.

**ENGL 302 TECHNICAL RHETORIC (3-0-3)(F/S).** An introduction to the rhetoric of technical communication for English majors and others who are considering a career in the field. Topics include information design, technical communication ethics, instructional writing, and strategies of visual and verbal rhetoric. PREREQ: ENGL 102 or PERM/INST.

**ENGL 303 THEORY AND PRACTICE OF TUTORING WRITING (3-0-3)(F/S).** Preparation for tutoring for the BSU Writing Center. Emphasis on writing processes, interpersonal dynamics, questioning techniques, evaluation of writing-in-progress, and rhetorical theory as it pertains to tutoring. Includes four hours per week of observation and supervised tutoring in the Writing Center. PREREQ: ENGL 102 and PERM/INST.

**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 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 PROSE (3-0-3)(S)(Alternate years).** Great prose stylists, including Carlyle, Arnold, Newman, Ruskin, and Pater, bring insights to controversy over issues still with us. Their subjects range from industrialism to mysticism, their purposes from amusement to reformation. 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 LITERATURE OF THE NEW REPUBLIC (3-0-3)(F/S).** A study in the first generation of the American literary experience (from the 1700's to the 1830's), when the founders of the republic shaped American character and culture. Includes such writers as Charles Brockden Brown, James Fenimore Cooper, Hanna Foster, Washington Irving, and Catherine Maria Sedwick. 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: EDUC 401 and EDUC 402.

**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 402 ADVANCED TECHNICAL COMMUNICATION (3-0-3)(F/S).** An 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 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 402 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 402 or PERM/INST.

**ENGL 406-406G ADVANCED POETRY WRITING (3-0-3)(S).** Advanced practice in poetry writing, and the study of how poets read and learn from other poets. May be repeated for nine credit hours. 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.PREREQ: ENGL 205 or PERM/INST.

**ENGL 407-407G ADVANCED FICTION WRITING (3-0-3)(F).** Exploration of narrative technique, dialogue form, and the short story. 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. Recommended: ENGL 206. May be repeated for nine credit hours.

**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 412-412G WOMEN WRITERS (3-0-3)(F/S)(Alternate years).** 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).** 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 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 402 or PERM/INST.

**ENGL 481 LITERATURE FOR USE IN JUNIOR AND SENIOR HIGH SCHOOL (3-0-3)(F).** 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.

**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 488 METHODS AND THEORIES OF LITERARY CRITICISM AND RHETORIC (3-0-3)(S).** Analysis of major literary and rhetorical theories, their methods, and their implications. PREREQ: 3 credits of upper-division literature or PERM/CHAIR.

**ENGL 498 SENIOR SEMINAR (3-0-3)(S).** Required of all senior English majors. PREREQ: Senior standing or PERM/CHAIR.

**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).** 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)(Cross listed ANTH 411)(Alternate years).** The course 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; solidarity and politeness. Several languages are examined in specific social and cultural contexts. 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 Health — see Department of Health Studies

# Environmental Studies Minor

*Information:* James Munger, Ph.D. Telephone 208 426-3560
Science/Nursing Building, Room 210

Consisting of 30 to 33 credits, the environmental studies minor is an interdisciplinary program that teaches the fundamentals of environmental studies. The minor allows students with traditional majors, such as business, liberal arts, and education, to develop a separate environmental emphasis. Students must achieve a grade of C or better in all courses counted toward the minor.

**Environmental Studies Minor**

| Course Number and Title | Credits |
|---|---|
| BIOL 191-192 General Biology I-II | 8 |
| CHEM 102 Essentials of Chemistry **OR**<br>CHEM 112 College Chemistry | 4-5 |
| GEOG 100 Introduction to Geography<br>GEOG 321 Conservation of Natural Resources | 3<br>3 |
| *GEOL 101 Physical Geology | 4 |
| POLS 340 Environmental Politics | 3 |
| **One of the following four groups:<br>1. Environmental Biology Group<br>BIOL 323 Ecology<br>BIOL 422 Conservation Biology<br>2. Environmental Geosciences Group<br>GEOL 370 Environmental Geology<br>2 geosciences courses from list 'c.' below<br>3. Environmental Chemistry Group<br>CHEM 317, 319 Organic Chemistry and Lab<br>CHEM 211, 212 Analytical Chemistry I and Lab **OR**<br>CHEM 431 Intro to Biochemistry | 8-11 |

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| *Environmental Studies Minor (continued)* | |
|---|---|
| 4. General Group: three courses from the following four lists, but no two courses from the same list.<br>a. Biology: BIOL 323 Ecology, BIOL 415 Applied and Environmental Microbiology, ZOOL 305 Entomology, ZOOL 355 Vertebrate Natural History, ZOOL 341 Ornithology, ZOOL 421 Mammalogy<br>b. Chemistry/Environmental Health: CHEM 422 Environmental Chemistry, ENVHLTH 442 Hazardous Waste Management, ENVHLTH 310 Water Supply and Water Quality Management, ENVHLTH 380 Air Quality Management<br>c. Geosciences: GEOG 331 Climatology, GEOL 201 Introduction to Oceanography, GEOL 313 Geomorphology, GEOL 370 Environmental Geology, GEOL 412 Hydrogeology, GEOPH 300 Physics of the Earth<br>d. Political Science/Economics/Psychology: POLS 320 American Policy Process, POLS 303 Public Administration, ECON 333 Natural Resource Economics | |
| Total | 33-37 |

*GEOL 101 is recommended. However, you may substitute GEOL 100 if you receive a grade of B or higher.
**Courses in this section applied toward the minor may not also be counted towards fulfilling a major requirement.

## 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 53 for a definition of the course-numbering system.**

**ENVSTD — ENVIRONMENTAL STUDIES**

**Upper Division**

**ENVSTD 311 GLOBAL ENVIRONMENT (3-0-3)(S)** Biological and physical processes crucial to global health. Problems of world population, resources, and pollution. Economic, political, and ethical relationships between society and environment. Community activity required.

### 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

### Forestry — see Department of Biology

### French — see Department of Modern Languages and Literatures

### General Business Management — see Department of Management

### General Education courses — see Teacher Education

# Department of Geosciences

Mathematics-Geosciences Building, Room 225 Telephone 208 426-1631
http://earth.boisestate.edu Fax: 208 426-4061
e-mail: cspinosa@boisestate.edu

*Chair and Professor:* Claude Spinosa. *Professors:* Donaldson, Hollenbaugh, Pelton, Snyder, White, Wood. *Associate Professor:* Michaels. *Assistant Professors:* McNamara, Northrup, Wilkins. *Research Professors:* Barrash, Clemo, Clement, Davydov, Gillerman, Knoll, Lyle, Schiappa, Zollweg.

## Degrees Offered

- B.S. in Geology
- B.S. in Geophysics
- B.S. in Earth Science Education, Secondary Education
- M.S. in Geology (See the *BSU Graduate Catalog.*)
- M.S. in Geophysics (See the *BSU Graduate Catalog.*)
- M.S. in Earth Science (See the *BSU Graduate Catalog.*)
- Ph.D. in Geophysics (See the *BSU Graduate Catalog.*)
- Minor in Environmental Studies (See the Department of Biology)

## Department Statement

The curriculum leading to the B.S. degree in geology is designed for students who plan a career in geology 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 nine elective areas: applied mathematics, chemistry, computer science, electrical engineering, environmental geoscience, 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 Science, Secondary Education Degree Program offered in the departments of anthropology, economics, history, political science, psychology, and sociology.

## Degree Requirements

| Geology<br>Bachelor of Science | |
|---|---|
| **Course Number and Title** | **Credits** |
| ENGL 101, 102 English Composition | 6 |
| **Area I — see page 40 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 40 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. | |

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| *Geology (continued)* | |
|---|---|
| CHEM 111, 112 College Chemistry | 9 |
| GEOL 101 Physical Geology<br>GEOL 102 Historical Geology<br>GEOL 221 Mineralogy<br>GEOL 280 Field Geology<br>GEOL 310 Sedimentation and Stratigraphy<br>GEOL 313 Geomorphology<br>GEOL 314 Structural Geology<br>GEOL 323 Petrology<br>GEOL 324 Petrography<br>GEOL 351 Invertebrate Paleontology<br>GEOL 482 Summer Field Camp<br>GEOL 498 or 499 Senior Seminar | 4<br>4<br>4<br>3<br>4<br>3<br>4<br>3<br>1<br>3<br>4<br>1 |
| Geology courses | 9 |
| GEOPH 300 Physics of the Earth **OR**<br>GEOPH 301 Introduction to Applied Geophysics | 3 |
| MATH 170-171, 175* Calculus I and Lab, and Calculus II<br>Mathematics through MATH 275 is recommended for students planning graduate studies.<br>*an approved statistics course may be substituted for MATH 175. | 9 |
| Physics Option I: (Recommended for students planning graduate studies)<br>PHYS 211, 211L Mechanics, Waves, and Heat and Lab<br>PHYS 212, 212L Electricity, Magnetism, and Optics and Lab*<br>*CHEM 321-323 Physical Chemistry and Lab may be substituted for PHYS 212, 212L.<br>Physics Option II:<br>PHYS 111, 112 General Physics | 8-10 |
| Upper-division electives to total 40 credits | 0-12 |
| Electives to total 128 credits | 0-15 |
| Total | 128 |

## Earth Science Education
## Bachelor of Science

| Course Number and Title | Credits |
|---|---|
| ENGL 101, 102 English Composition | 6 |
| **Area I — see page 40 for list of approved courses** | |
| Area I core course in one field<br>Area I core course in a second field<br>Area I core course in a third field<br>Area I core course in any field | 3<br>3<br>3<br>3 |
| **Area II — see page 40 for list of approved courses** | |
| EDUC 201 Foundations of Education<br>GEOG 100 Introduction to Geography<br>PSYC 101 General Psychology<br>Area II core course in any field | 3<br>3<br>3<br>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 College Chemistry | 9 |
| EDUC 202 Educational Technology – Classroom Applications<br>EDUC 301 Teaching: Experience I<br>EDUC 302 Learning and Instruction<br>EDUC 350 Teaching Students with Exceptional Needs at the Secondary Level<br>EDUC 401 Professional Year - Teaching Experience II<br>EDUC 402 Content Literacy for Secondary Students<br>EDUC 404 Teaching Secondary Science Teaching Experience III/IV<br>NOTE: Completion of all requirements for graduation with a secondary education option may require more than 128 credit hours. See "Teacher Education" for more information. | 3<br>1<br>4<br>3<br>2<br>3<br>3<br>16 |
| GEOG 213 Introduction to Meteorology | 3 |

*— continued —*

| *Earth Science Education (continued)* | |
|---|---|
| GEOL 101 Physical Geology<br>GEOL 102 Historical Geology<br>GEOL 201 Introduction to Oceanography<br>GEOL 221 Mineralogy<br>GEOL 313 Geomorphology<br>GEOL 323 Petrology<br>GEOL 324 Petrography<br>GEOL 498 or 499 Senior Seminar | 4<br>4<br>3<br>4<br>3<br>3<br>1<br>1 |
| Upper-division geology courses **OR**<br>GEOG 331 Climatology **OR**<br>GEOPH 300 Physics of the Earth | 6 |
| MATH 147 Precalculus | 5 |
| PHYS 105 Introduction to Descriptive Astronomy<br>PHYS 111, 112 General Physics | 4<br>8 |
| Upper-division electives to total 40 credits | 0-6 |
| Electives to total 128 credits | 1-7 |
| Total | 128 |

## Geophysics
## Bachelor of Science

| Course Number and Title | Credits |
|---|---|
| ENGL 101, 102 English Composition | 6 |
| **Area I — see page 40 for list of approved courses** | |
| Area I core course in one field<br>Area I core course in a second field<br>Area I core course in a third field<br>Area I core course in any field | 3<br>3<br>3<br>3 |
| **Area II — see page 40 for list of approved courses** | |
| Area II core course in one field<br>Area II core course in a second field<br>Area II core course in a third field<br>Area II core course in any field | 3<br>3<br>3<br>3 |
| **Area III — see page 40 for list of approved courses** | |
| Area III requirements are automatically met by specific courses included in the major requirements below. | |
| CHEM 111, 112 College Chemistry | 9 |
| COMPSCI 115 Introduction to C<br>COMPSCI 125 Introduction to Computer Science I | 2<br>4 |
| EE 222 Signals and Transforms | 3 |
| ENGR 240 Introduction to Electric Circuits | 3 |
| GEOL 101 Physical Geology<br>GEOL 221 Mineralogy<br>GEOL 280 Field Geology | 4<br>4<br>3 |
| GEOPH 300 Physics of the Earth<br>GEOPH 303 Basic Geophysical Theory<br>GEOPH 305 Applied Geophysics<br>GEOPH 308 Data Acquisition and Interpretation Laboratory<br>GEOPH 498 Geophysics Senior Seminar | 3<br>5<br>3<br>2<br>1 |
| Upper-division geophysics electives | 6 |
| MATH 170-171, 175 Calculus I and Lab, and Calculus II<br>MATH 275 Multivariable and Vector Calculus<br>MATH 333 Differential Equations with Matrix Theory | 9<br>4<br>4 |
| PHYS 211, 211L Mechanics, Waves, and Heat and Lab<br>PHYS 212, 212L Electricity, Magnetism, and Optics and Lab | 5<br>5 |
| Courses chosen from one of the following areas:<br>1. Applied mathematics: MATH 301, MATH 465 and either MATH 326, MATH 360, MATH 361, MATH 436, or MATH 464.<br>2. Chemistry: CHEM 211, CHEM 212, CHEM 317, CHEM 318, CHEM 319.<br>3. Computer science: COMPSCI 225, COMPSCI 354, MATH 187.<br>4. Electrical engineering: ENGR 240L, EE 222L, EE 320, 320L, EE 330, EE 330L.<br>5. Environmental geoscience: any four of the following GEOG 321, GEOG 331, GEOL 370, GEOL 412, or GEOL 451. | 10-13 |

*— continued —*

| *Geophysics (continued)* | |
|---|---|
| 6. Geology: GEOL 310, GEOL 314, GEOL 323, GEOL 324.<br>7. Geotechnical engineering: CE 360, CE 361, ENGR 210, ENGR 220, ENGR 350.<br>8. Hydrogeology: GEOPH 410, GEOL 412, GEOL 413, HYDRO-UI 569.<br>9. Physics: PHYS 309, PHYS 310, and two courses chosen from PHYS 311, PHYS 312, PHYS 332, PHYS 341, PHYS 381, PHYS 382, or PHYS 432. Sequences must be taken in order. | |
| Electives to total 128 credits | 6-12 |
| Total | 128-134 |
| 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. | |

# Course Offerings

**See page 53 for a definition of the course-numbering system.**

**GEOG — GEOGRAPHY**

**Lower Division**

**GEOG 100 INTRODUCTION TO GEOGRAPHY (3-0-3)(F/S)(Area II)(Formerly GEOG 101).** 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).** A study of the distribution and character of cultural activities throughout the world with emphasis on human landscapes.

**GEOG 201 THE USE AND INTERPRETATION OF MAPS (3-0-3)(F/S).** An intensive use and interpretation of a wide spectrum of map types, their advantages and limitations for students of various fields, such as archaeology, history, geology, and teaching.

**GEOG 210 SURVEY OF WORLD REGIONAL GEOGRAPHY (3-0-3)(F/S).** 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 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, GEOL 101 or PERM/INST.

**GEOG 220 CARTOGRAPHY (1-6-3)(F/S).** A study of the methods, concepts, techniques, and instrumentation of map construction. Involves compilation and graphic presentation of data through the use of coordinate systems, map projections, and scale. Lettering tools, graphic design, dimensional problems, computer mapping, and aerial photographs are discussed.

**GEOG 221 GEOGRAPHY OF IDAHO AND THE PACIFIC NORTHWEST (3-0-3)(F/S).** Physical and cultural geography of the Pacific Northwest with emphasis on Idaho. Study includes the continuing physical, biological, social, political, and economic changes and the role of the region in relationship to the United States. Current problems and problem-solving in accordance with the known resource base.

**Upper Division**

**GEOG 301 HISTORICAL GEOGRAPHY OF THE UNITED STATES (3-0-3)(F/S).** The course explores the changing physical and cultural landscapes of the United States through time and space, and analysis of the various regions. Included is the study of the distribution and relationships between peoples, land, and resources. PREREQ: GEOG 102 PERM/INST.

**GEOG 311 WORLD ECONOMIC GEOGRAPHY (3-0-3)(F/S).** Economic geography is the study of the areal distribution and variation of resources and human activity related to producing, exchanging, and consuming commodities. Economic activities are studied in the context of where they occur, their regional characteristics, and their relationship to national or international phenomena. PREREQ: GEOG 100 or PERM/INST.

**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 PERM/INST.

**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: GEOL 101 or GEOG 100.

**GEOG 340 GEOGRAPHY OF THE SLAVIC STATES (3-0-3)(F/S).** A study of physical and cultural phenomena that have shaped the urban and rural landscapes of the fifteen republics. PREREQ: GEOG 100 or GEOG 102, PERM/INST.

**GEOG 350 REGIONAL GEOGRAPHY OF EUROPE (3-0-3)(F/S).** Identification and study of physical and cultural regions of Europe. Climate, landforms, and soils along with resources, national groups, and political geography. PREREQ: GEOG 100 or 102, PERM/INST.

**GEOL — GEOLOGY**

**Lower Division**

**GEOL 100 FUNDAMENTALS OF GEOLOGY (3-2-4)(Area III)(Lab fee)**. 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.

**GEOL 101 PHYSICAL GEOLOGY (3-2-4)(Area III)(Lab fee).** A study of the origin and development of the earth, its materials, and its processes. Topics include weathering, erosion, volcanism, earthquakes, landscapes, and plate tectonics. Rocks, minerals, and topographic and geologic maps are studied in the laboratory. Field trips required.

**GEOL 102 HISTORICAL GEOLOGY (3-3-4)(Area III)(Formerly GEOL 103).** A study of the origin and progressive development of the earth and evolution of plants and animals. The geologic history of the earth is treated in considerable detail. Pre-historic life and fossil study as well as field trips to fossil beds are included in the laboratory work. Field trips required. PREREQ: GEOL 101.

**GEOL 105 ROCKS AND MINERALS (2-3-3)(F/S).** A systematic study of rocks and minerals, with emphasis on physical characteristics and methods of identification. Field trips and laboratory sessions are part of the course for those taking the class for credit. PREREQ: High school chemistry or PERM/INST.

**GEOL 111 GEOLOGY OF IDAHO AND THE PACIFIC NORTHWEST (3-0-3).** A study of the geologic setting and history of Idaho and its immediate surroundings. Includes major topographic and scenic features, structural and stratigraphic features, mineral deposits, fossil and gem areas, and current problems in natural resource products. Field trips required. PREREQ: GEOL 102 or PERM/INST.

**GEOL 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: GEOL 102.

**GEOL 221 MINERALOGY (2-4-4)(F).** A study of minerals including crystal forms, atomic structure, chemical properties, and environments of origin. The laboratory meets twice each week. Lab exercises emphasize identification of minerals by recognizing their physical properties in hand specimen and utilizing their optical properties in oil mounts and thin sections. Several exercises involve use of the x-ray diffractometer. PREREQ: GEOL 101. COREQ: CHEM 111.

**GEOL 280 FIELD GEOLOGY (1-6-3)(F)(Lab Fee).** Techniques of field mapping to solve geologic problems. Field exercises will use topographic maps, stereo-pair air photos, Brunton compass, transit a n tests, field test for density, percolation rate, and soil strength. PREREQ: MATH 147 or equivalent.

**Upper Division**

**GEOL 310 SEDIMENTATION AND STRATIGRAPHY (3-1-4)(S).** 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. PREREQ: GEOL 323.

**GEOL 313 GEOMORPHOLOGY (2-3-3)(F).** A study of the features of the earth's surface such as mountains, valleys, beaches, and rivers, and the process by which they are formed and changed. Laboratory work consists of map studies and field investigations. Field trips required. PREREQ: GEOL 102, ENGL 102.

**GEOL 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. Laboratory problems in orthographic and stereographic methods and solution of structural problems using geologic maps and cross-sections. Field trips required. PREREQ: MATH 147, GEOL 101, 221, 280.

**GEOL 323 PETROLOGY (2-3-3)(S).** A study of igneous, sedimentary, and metamorphic rocks with emphasis on methods of their classification, physical, and chemical constraints on their origin, and their tectonic associations. PREREQ: GEOL 221. COREQ: GEOL 324.

**GEOL 324 PETROGRAPHY (0-3-1)(S).** A systematic study of igneous, sedimentary, and metamorphic rocks in hand specimen and thin section. The polarizing microscope is used extensively. The origins and histories of representative specimens are interpreted through examination of their mineral assemblages, textures, fabrics, and alteration. PREREQ: GEOL 221. COREQ: GEOL 323.

**GEOL 351 INVERTEBRATE PALEONTOLOGY (2-3-3)(F).** The study of the invertebrate phyla represented in the fossil record. Special emphasis is placed on hardpart morphology, ontogeny, phylogeny, and taxonomy of geologically important groups. Laboratory work based on standard collections. Special project. Field trips required. PREREQ: GEOL 102.

**GEOL 370 ENVIRONMENTAL GEOLOGY (3-0-3)(S)(Alternate years).** A study of the ways that geological materials and processes constrain human interaction with the natural environment. This includes the availability and use of geological resources, dealing with waste disposal and pollution, and minimizing the impact of geological hazards. PREREQ: An introductory course in geography or geology.

**GEOL 403-403G ENGINEERING GEOLOGY (2-3-3)(S)(Alternate years).** Introduction to soil and rock mechanics, slope stability analysis, surface and subsurface exploration of sites. Geological and geophysical considerations for construction projects. Current applications of geology to engineering projects. Field trips required. PREREQ: GEOL 280, PHYS 112 or PHYS 211, GEOL 323 or PERM/INST.

**GEOL 410 OPTICAL MINERALOGY (1-3-2)(F)(Alternate years).** 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: GEOL 324.

**GEOL 412-412G 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. PREREQ: GEOL 101, MATH 170-171.

**GEOL 413-413G APPLIED HYDROGEOLOGIC CONCEPTS (3-0-3)(S).** Application of modern theoretical concepts to the analysis of factors that control the movement of groundwater. The theory of groundwater flow is presented in greater detail than is possible in an introductory course. PREREQ: GEOL 412, MATH 170-171.

**GEOL 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: GEOL 314.

**GEOL 421 ORE DEPOSITS (2-3-3)(F).** Genesis, structure, associations, and classification of mineral deposits. Discussion of modern theories of ore deposition, origin and migration of ore-bearing fluids and the processes of alteration, and secondary enrichment, controls of ore occurrence, and the economics of exploration, development, and use of ores. Laboratory work consists of detailed studies of ore and alteration suites. Transmitted and reflected-light microscopy will be used to supplement hand-specimen study. Field trips required. PREREQ: GEOL 323 or PERM/INST.

**GEOL 422 EXPLORATION AND MINING GEOLOGY (3-0-3)(S).** The course emphasizes geologic, engineering, and economic factors as they relate to exploring for and developing mineral deposits. The philosophy and methodology of systematically gathering, evaluating, and presenting data pertinent to exploration and development discussions are also studied. Field trips required. PREREQ: GEOL 323 or PERM/INST.

**GEOL 431-431G PETROLEUM GEOLOGY (2-3-3)(F)(Alternate years).** 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 petroleum fields. Field trips required. PREREQ: GEOL 310, 314.

**GEOL 450-450G GEOLOGY OF NATIONAL PARKS (3-0-3)(S)(Odd years).** A systematic study of geologic materials, structures, processes, and landforms in the national parks. The course is structured by geological regions and emphasizes geological knowledge as a key to greater appreciation and understanding of these scenic areas. PREREQ: GEOL 102.

**GEOL 451-451G PRINCIPLES OF SOIL SCIENCE (3-0-3)(F/S)(Alternate years).** 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.

**GEOL 460-460G VOLCANOLOGY (2-0-2)(F)(Alternate years).** A study of volcanic processes and the deposits of volcanic eruptions. An in-depth review of the generation, rise and eruption of magmas, and of the types of vent structures produced. Field and petrographic characteristics of various types of volcanic deposits, as well as their volcano-tectonic relationships will be emphasized. An independent project pertaining to volcanoes or volcanic rocks will be required of all students taking the course for graduate credit. Field trips required. PREREQ: GEOL 323.

**GEOL 471-471G REGIONAL FIELD STUDY (1, 2, or 3 CR).** 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. PREREQ: GEOL 102 or PERM/INST.

**GEOL 482 GEOLOGY SUMMER FIELD CAMP (0-0-4)(SU).** The study of geology in its natural environment—the field. Emphasis is upon geologic mapping, the collection, plotting and analysis of data to solve geologic field problems, and mapping on aerial photograph and topographic base. Student should expect to be in the field 8-10 hours per day, 6 days per week for 4 weeks. Students working toward a professional degree in geology (Bachelor of Science) must take COREQ: GEOL 483.

**GEOL 483 GEOLOGY SUMMER FIELD CAMP REPORT (0-0-2)(SU).** A comprehensive geologic report, map, and cross-section based upon mapping experiences at summer field camp. Map, report, and cross-section must be of professional quality. COREQ: GEOL 482.

**GEOL 493 INTERNSHIP (4-6 credits).**

**GEOL 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 GEOL 480 upon approval of a written proposal by a committee of three department faculty members. PREREQ: Senior standing.

**GEOL 498, 499 GEOLOGY SENIOR SEMINAR (1-0-1).** Research project based on field and/or literature studies. Fundamentals of geologic report preparation and oral presentations. PREREQ: geology or earth science education major.

**GEOPH — GEOPHYSICS**

**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: GEOL 101, PHYS 112 or PHYS 212.

**GEOPH 301 INTRODUCTION TO APPLIED GEOPHYSICS (3-0-3)(F/S).** Introductory survey of geophysical methods for geologists and engineers, including elementary theory, field practice, data reduction, interpretation techniques, and economic considerations. Seismic, gravimetric, magnetic, and electrical/electromagnetic techniques. Applications to exploration geology (mining and petroleum), engineering geology, and hydrogeology. GEOPH 301 is not intended for geophysics majors. PREREQ: GEOL 101, PHYS 112 or PHYS 212.

**GEOPH 303-303G BASIC GEOPHYSICAL THEORY (3-4-5)(F/S).** General geophysical theory to provide background for more specialized courses in applied geophysics and quantitative geoscience. Emphasis on geophysical aspects of potential theory, continuum mechanics, mechanical and electromagnetic wave propagation, fluid flow, error analysis, and spectral analysis. PREREQ: MATH 275, MATH 333, PHYS 212, or PERM/INST.

**GEOPH 305-305G APPLIED GEOPHYSICS (2-2-3)(F/S).** Geophysical methods for investigation of the subsurface, including instrumentation, data acquisition and reduction, and interpretation. Seismic, gravimetric, magnetic, and electrical/electromagnetic techniques. Applications to exploration geology (mining and petroleum), engineering geology, hydrogeology, and global geology. Students who desire more comprehensive study of a particular method are advised to enroll for GEOPH 455, GEOPH 460, GEOPH 465 as appropriate. PREREQ: GEOPH 303 or PERM/INST.

**GEOPH 308-308G DATA ACQUISITION AND INTERPRETATION LABORATORY (0-4-2)(F/S).** Field and laboratory experiments using the methods of applied geophysics including definition of objectives, preliminary survey design, choice of instrumentation and field parameters, data acquisition and quality control, and computer-assisted interpretation. PREREQ or COREQ: GEOPH 305 or PERM/INST.

**GEOPH 340-340G GEOPHYSICS FIELD CAMP (4 weeks-6 credits)(SU).** Field experience in significant geophysical mapping projects. Survey design and hands-on operation of seismic, magnetic, gravimetric, and electrical/electromagnetic field and borehole geophysical instrumentation. Reduction and interpretation of acquired data. Preparation of appropriate reports. PREREQ: GEOPH 301 or GEOPH 305 or PERM/INST.

**GEOPH 410-410G BOREHOLE GEOPHYSICS (2-3-3)(F/S).** Principles of geophysical, geological, and hydrological measurements in boreholes with emphasis on applications to hydrogeology and petroleum geology. Design of water wells and methods of data collection while drilling. 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. Field work in borehole logging and digital data acquisition using electrical, natural gamma, temperature, fluid resistivity, caliper, casing-locator, and flowmeter tools. PREREQ: GEOPH 301 or GEOPH 305 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, EE 222, 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: GEOL 101, GEOPH 308 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: GEOL 101, GEOPH 308 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: GEOL 101, GEOPH 308 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.

**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.

### German — see Department of Modern Languages and Literatures

### Gerontology Minor — see Aging, Interdisciplinary Studies Program

### Graphic Design — see Department of Art

### Greek — see Department of History

### Health Information Management and Health Information Technology — see Department of Health Studies

### Health, Physical Education, and Recreation — see Department of Kinesiology

### Health Promotion — see Department of Kinesiology

# Department of Health Studies

Health Science Riverside — Telephone 208 426-3929
http://hs.boisestate.edu/hlthst/ — Fax 208 426-2199

*Chair and Professor:* Elaine Long. *Professors:* Shook. *Associate Professors:* Anderson, Elison-Bowers, La Riviere, Seddon.

## Degrees Offered

- A.S. in Health Information Technology
- B.S. in Environmental Health
- B.S. in Health Information Management
- B.S. in Health Science Studies
- B.S. in Pre-dental Studies
- B.S. in Pre-medical Studies
- B.S. in Pre-veterinary Studies
- Minor in Addictions Studies

## Department Statement

Students in this department may choose to study environmental health, health information management, health science studies, a pre-professional area, or addictions studies. Students are encouraged to work closely with an advisor to ensure that the courses they take will meet degree requirements.

Faculty in the department also advise students who are interested in a health-care career but have not yet decided which discipline to enter.

### Environmental Health

Environmental health specialists play an important role in assisting communities to ensure a healthful environment. Specific activities may include helping private businesses and public agencies maintain sanitary conditions in food establishments, in recreational facilities, and in public and private water supplies. Other activities may include assisting communities in properly disposing of toxic wastes; pest control; minimizing community air, water, and noise pollution; and assisting businesses in promoting safe and healthful working conditions.

The environmental health curriculum provides a broad background in understanding public health problems and in working with people effectively to arrive at solutions to these problems. During the first two years, students take general college education courses. These may be taken at BSU or at other accredited 2- or 4-year colleges or universities, with students transferring to BSU for the junior and senior years. Upper-division students must complete an internship with public health agencies or private business.

### Health Information Management

Health information management concerns the techniques used in securing, analyzing, integrating, and managing health information. A health information career is a blend of patient care, management, and technology. The associate and baccalaureate programs combine clinical practice in acute care and non-acute care facilities, with courses of study such as classification systems, computerization of data, and administration of health data. Internships are completed by upper division students in public or private computerized information areas.

### 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, medical technology, 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.

### Minor in Addictions Studies

Undergraduate students may complete a minor in addictions studies. At the graduate level, students may complete a master of health science with an emphasis in alcohol and drug 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-medicine, pre-dental, pre-dental hygiene, pre-dietetics, pre-occupational therapy, pre-optometry, pre-pharmacy, pre-physical therapy, pre-veterinary medicine, pre-chiropractic, pre-speech-language pathology, or pre-physician assistant. Students should seek regular counsel with the advisor who has been designated for his or her major field of interest.

# Environmental Health

Advisor: Gary Shook — Telephone 208 426-3795
Health Science Riverside, Room 105
http://hs.boisestate.edu/envhlth

## Degree Requirements

**Environmental Health**
**Bachelor of Science**

| Course Number and Title | Credits |
|---|---|
| ENGL 101, 102 English Composition | 6 |
| **Area I — see page 40 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 40 for list of approved courses** | |
| COMM 101 Fundamentals of Speech Communication | 3 |
| PSYC 101 General Psychology | 3 |
| SOC 101 Introduction to Sociology | 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 **OR** | 8 |
| BIOL 227-228 Human Anatomy and Physiology | |
| BIOL 205 Microbiology **OR** | 4-5 |
| BIOL 303 Bacteriology | |
| BIOL 301 Cell Biology **OR** | 3 |
| HLTHST 300 Pathophysiology | |
| BIOL 415 Applied and Environmental Microbiology | 4 |
| CHEM 111, 112 College Chemistry | 9 |
| CHEM 317, 319 Organic Chemistry and Lab | 5 |

*— continued —*

| *Environmental Health (continued)* | |
|---|---|
| COMM 356 Communication in Small Group **OR**<br>COMM 390 or SOC 390 Conflict Resolution | 3 |
| ENGL 202 Technical Communication | 3 |
| ENVHLTH 100 Introduction to Environmental Health<br>ENVHLTH 310 Water Supply and Water Quality Management<br>ENVHLTH 320 Community Environmental Health Management<br>ENVHLTH 380 Air Quality Management<br>ENVHLTH 415 Occupational Safety and Health<br>ENVHLTH 417 Principles of Toxicology<br>ENVHLTH 442 Hazardous Waste Management<br>ENVHLTH 450 Environmental Health Law<br>ENVHLTH 493 Internship | 2<br>3<br>3<br>2<br>3<br>2<br>2<br>2<br>4 |
| HLTHST 304 Public Health Administration<br>HLTHST 480 Epidemiology | 3<br>3 |
| MATH 147 Precalculus **OR**<br>MATH 170-171 Calculus I and Lab<br>MATH 254 Applied Statistics with the Computer | 5<br><br>4 |
| PHYS 111, 112 General Physics | 8 |
| ZOOL 305 Entomology | 4 |
| *Electives to total 128 credits | 3-8 |
| Total | 128 |

*Suggested electives chosen from BIOL 310, BIOL 412, BIOL 423, ECON 201, GEOL 101, HLTHST 498-499, MATH 361, MGMT 301, POLS 101, POLS 102, and ZOOL 401.
NOTE: Environmental 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 356/SOC 390.

# Course Offerings

**See page 53 for a definition of the course-numbering system.**

**ENVHLTH — ENVIRONMENTAL HEALTH**

**Lower Division**

**ENVHLTH 100 INTRODUCTION TO ENVIRONMENTAL HEALTH (2-0-2)(F/S).** 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) (Offered even-numbered years).** Engineering, biological, and management principles of community water supply and water pollution control. PREREQ: botany, zoology, CHEM 111-112, one year mathematics, upper-division standing, environmental health major or PERM/INST.

**ENVHLTH 320 COMMUNITY ENVIRONMENTAL HEALTH MANAGEMENT (2-3-3)(F)(Offered odd-numbered years).** Sanitation and management practices for community problems dealing with waste disposal, vector control, food and milk protection, swimming pools, and recreation activities. PREREQ: botany, zoology, CHEM 111-112, one year mathematics, upper-division standing. environmental health major, or PERM/INST.

**ENVHLTH 380 AIR QUALITY MANAGEMENT (2-0-2)(F)(Offered odd-numbered years).** Chemical, engineering, and management principles of community and industrial air quality control. PREREQ: organic chemistry or concurrent enrollment, environmental health major, or PERM/INST.

**ENVHLTH 415 OCCUPATIONAL SAFETY AND HEALTH (2-3-3)(S)(Offered even-numbered 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 and organic chemistry or concurrent enrollment, environmental health major, or PERM/INST.

**ENVHLTH 417 PRINCIPLES OF TOXICOLOGY (2-0-2)(S)(Offered odd-numbered 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 and environmental health major, or PERM/INST.

**ENVHLTH 442-442G 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 450-450G ENVIRONMENTAL HEALTH LAW (2-0-2)(S)(Offered even-numbered years).** Various aspects of environmental and health protection law are discussed, including sources of regulatory authority, legal procedures, agency roles, and specific statutes. Graduate students will complete extra assignments. PREREQ: Upper-division standing and environmental health major or PERM/INST.

**ENVHLTH 493 ENVIRONMENTAL 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. PREREQ: Upper-division standing; recommendation of faculty advisor; consent of instructor. (Pass/Fail).

# Health Information Management

Advisor: Patt Elison-Bowers Telephone 208 426-1130
Health Science Riverside, Room 109
http://hs.boisestate.edu/hlthinfo

Health 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 information technology makes students eligible for the national certification examination.

The associate degree program is accredited by the Council on Accreditation of Allied Health Accreditation Programs (CAAHEP).

The health 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 information technology. Students complete internships in health information in cooperation with facilities in the public or private sector.

## Admission Requirements for the A.S. Degree

1. First Year
   A. Admission to BSU.
   B. Student must see a health information technology 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 negative tuberculosis report (PPD test) and documentation of Rubella immunity by September 1 of the sophomore year.

Pre-health information students should contact Patt Elison, Health Science Riverside or the office secretary, 208 426-1130, for advising information or to make an appointment.

## Application Process for A.S. Degree

1. Complete and return to the Health Information Management Program office a "Special Programs Application" on or before March 1.
2. Complete the interview process.
3. Submit $15.00 per academic year for name pin and lab fee, payable with academic lab fees.

## 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.

# Degree Requirements

| Health Information Technology Associate of Science | |
|---|---|
| **Course Number and Title** | **Credits** |
| ENGL 101, 102 English Composition | 6 |
| **Area I — see page 40 for list of approved courses** | |
| Area I core course | 3 |
| **Area II — see page 40 for list of approved courses** | |
| Area II core course | 3 |
| **Area III — see page 40 for list of approved courses** | |
| BIOL 227, 228 Human Anatomy and Physiology | 8 |
| Area III core course | 4 |
| HLTHINFO 115 Introduction to Health Records | 3 |
| HLTHINFO 120, CIS 104-CIS 105-CIS 106, or EDUC 202 Computer Science | 3 |
| HLTHINFO 200 Health Information Management Topics | 1 |
| 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 215 Clinical Practice | 2 |
| HLTHST 101 Medical Terminology | 3 |
| HLTHST 202 Health Delivery Systems | 3 |
| HLTHST 211 Disease Conditions I | 3 |
| HLTHST 212 Disease Conditions II | 3 |
| HLTHST 213 Introduction to Health Law and Ethics | 3 |
| Total | 64 |

## 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 information technology at BSU, or have an associate degree in health information technology at BSU, or have an associate degree in health information technology, 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 information technology.

| Health Information Management Bachelor of Science | |
|---|---|
| **Course Number and Title** | **Credits** |
| ENGL 101, 102 English Composition | 6 |
| **Area I — see page 40 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 40 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 40 for list of approved courses** | |
| BIOL 227, 228 Human Anatomy and Physiology | 8 |
| Area III core course in mathematics | 4 |

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| *Health Information Management (continued)* | |
|---|---|
| Health information requirements:<br>HLTHINFO 115 Introduction to Health Records<br>HLTHINFO 120, CIS 104-CIS 105-CIS 106, or EDUC 202 Computer Science<br>HLTHINFO 200 Health Information Management Topics<br>HLTHINFO 201, 202 Health Information I and Lab<br>HLTHINFO 203, 204 Health Information II and Lab<br>HLTHINFO 205 Health Data<br>HLTHINFO 207 Clinical Classification Systems<br>HLTHINFO 215 Clinical Practice<br>HLTHINFO 309 Introduction to Health Data Management<br>HLTHINFO 409 Health Data Research | 31 |
| Health science requirements<br>HLTHST 101 Medical Terminology<br>HLTHST 202 Health Delivery Systems<br>HLTHST 211-212 Disease Conditions I and II<br>HLTHST 213 Introduction to Health Law and Ethics<br>HLTHST 304 Public Health Administration<br>HLTHST 480 Epidemiology | 21 |
| General data courses selected from the following:<br>BIOL 300 Biology of Aging<br>BUSCOM 328 Business Communication<br>CIS 310 Introduction to Management Information Systems<br>COMM 307 Interviewing<br>COMM 351 Intercultural Communication<br>COMM 361 Organizational Communication **OR** COMM 483 Studies in Organizational Communication<br>COMM/SOC 390 Conflict Management<br>HLTHINFO 493 Health Information Internship<br>HLTHST 498 Seminar<br>MATH 361 Probability and Statistics I<br>MGMT 301 Leadership Skills<br>MGMT 305 Human Resource Management<br>MGMT 401 Organizational Behavior<br>MGMT 405 Management of Continuous Learning<br>PSYC 331 Psychology of Health<br>POLS 303 Introduction to Public Administration<br>SOC 310 Elementary Social Statistics | 34 |
| Total | 128 |

# Course Offerings

**See page 53 for a definition of the course-numbering system.**

**HLTHINFO — HEALTH INFORMATION**

**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 (1-0-1)(S).** Presentation of 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 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 309 INTRODUCTION TO HEALTH DATA MANAGEMENT (3-0-3)(F/S).** Issues of health database management. Includes medical data systems and software, patient information systems, health agency systems, case mix management systems, and other specialized health information systems. Special attention to current applications of database in health care delivery. PREREQ: HLTHINFO 120, CIS 104, CIS 105, CIS 106, EDUC 202 or PERM/INST.

**HLTHINFO 409 HEALTH DATA RESEARCH (3-0-3)(F/S).** Applied research issues and procedures. Issues in health database management: research design, validity and reliability, data set design and manipulation, database security, and protection, retrieval programming, and statistical output. PREREQ: Upper-division standing and one of the following HLTHINFO 120, CIS 104-CIS 105-CIS 106, EDUC 202, or PERM/INST.

**HLTHINFO 493 HEALTH INFORMATION INTERNSHIP (1-4-3)(F/S).** An internship in a health data area under the direction of a preceptor who is a practicing professional. Student keeps a record of experiences and discusses them at a weekly one-hour seminar. PREREQ: Upper-division standing; recommendation of faculty advisor; consent of instructor. (Pass/Fail).

# Health Science Studies

Health Science Riverside, Room 101 Telephone 208 426-3929
http://hs.boisestate.edu/hlthscience

*Advisors:* Rudy Andersen, Glenda Hill, Elaine Long, Sandra Quinn

# Degree Requirements

**Health Science Studies**
**Bachelor of Science**

| Course Number and Title | Credits |
|---|---|
| ENGL 101, 102 English Composition | 6 |
| **Area I — see page 40 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 40 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<br>(Strongly recommended: PSYC 101 General Psychology, SOC 101 Introduction to Sociology,COMM 101 Fundamentals of Speech Communication) | 3 |
| **Area III — see page 40 for list of approved courses** | |
| CHEM 111, 112 College Chemistry **OR**<br>CHEM 101, 102 Essentials of Chemistry | 8-9 |
| MATH 147 Precalculus **OR**<br>MATH 160 Survey of Calculus | 4-5 |
| BIOL 191-192 General Biology I-II **OR**<br>BIOL 227, 228 Human Anatomy and Physiology | 8 |
| HLTHST 101 Medical Terminology | 3 |
| HLTHST 202 Health Delivery Systems | 3 |
| HLTHST 207 Nutrition | 3 |
| HLTHST 413 Introduction to Health Law and Ethics | 3 |
| HLTHST 480 Epidemiology | 3 |

*— continued —*

***Health Science Studies (continued)***

| | |
|---|---|
| Health science courses (3 courses from the following)<br>HLTHST 109 Drugs: Use and Abuse<br>HLTHST 211-212 Disease Conditions I and II<br>HLTHST 220 Cardiopulmonary Renal Physiology<br>HLTHST 300 Pathophysiology<br>HLTHST 304 Public Health Administration<br>HLTHST 306 Applied Pharmacotherapeutics<br>HLTHST 414 Assessment of Alcohol and Drug Problems, Part I<br>HLTHST 449 Counseling Techniques for Health Professionals | 9-10 |
| Statistics course chosen from:<br>MATH 254 Applied Statistics with the Computer **OR**<br>PSYC 295 Statistical Methods **OR**<br>SOC 310 Elementary Social Statistics | 3-4 |
| Emphasis — select one: science or general health science<br>Students should consider completing a formal minor to fulfill part of an emphasis. | 39-41 |
| **Science emphasis (natural/physical/and mathematics)**<br>BIOL 205 Microbiology or BIOL 303 General Bacteriology<br>BIOL 301 Cell Biology<br>BIOL 310 Pathogenic Bacteriology<br>BIOL 343/344 Genetics<br>BIOL 412 General Parasitology<br>BIOL 420 Immunology<br>CHEM 211-212 Analytical Chemistry I and Lab<br>CHEM 317, 319/ 318, 320 Organic Chemistry and Lab<br>CHEM 321/324 Physical Chemistry<br>CHEM 431/432 Biochemistry with Laboratory<br>COMPSCI 115 Introduction to C<br>HLTHST 493 Internship<br>HLTHST 498 Senior Seminar<br>MATH 170-171 Calculus I and Lab<br>PHYS 111-112 General Physics<br>PHYS 207 Biophysics<br>ZOOL 301 Comparative Anatomy<br>ZOOL 351 Vertebrate Embryology<br>ZOOL 400 Histology<br>ZOOL 401 Human Physiology<br>ZOOL 409 General and Comparative Physiology<br>(Or other courses as approved by the advisor and department chair) | |
| **General health emphasis**<br>ACCT 205 Introduction to Financial Accounting<br>ACCT 206 Introduction to Managerial Accounting<br>BIOL 205 Microbiology<br>BIOL 300 Biology of Aging<br>CHEM 317, 319/318, 320 0organic Chemistry and Lab<br>COMM 356 Communication in the Small Group<br>COMPSCI 115 Introduction to C<br>ECON 201 Principles of Macroeconomics<br>ECON 202 Principles of Microeconomics<br>ECON or POLS 310 Public Finance<br>ENGL 202 Technical Communication<br>HLTHST 410 Health and Aging<br>HLTHST 445 Alcohol/Drug Abuse and the Family<br>HLTHST 493 Internship<br>HLTHST 498 Senior Seminar<br>MATH 170-171 Calculus I and Lab<br>MGMT 301 Leadership Skills<br>MGMT 305 Human Resource Management<br>MKTG 301 Principles of Marketing<br>KINES 270, 271 Applied Anatomy and Lab<br>KINES 330, 331 Exercise Physiology and Lab<br>KINES 370, 371 Biomechanics and Lab<br>KINES 442 Consumer Health<br>PHYS 111, 112 General Physics<br>POLS 303 Introduction to Public Administration<br>PSYC 213 Psychology of Aging<br>PSYC 301 Abnormal Psychology<br>PSYC 309 Child Development<br>PSYC 310 Adolescent and Adult Development | |

*— continued —*

| *Health Science Studies (continued)* | |
|---|---|
| PSYC 331 The Psychology of Health<br>PSYC 335 Physiological Psychology<br>SOC 325 Sociology of Aging<br>SOC 340 Sociology of the Family<br>SOC 390 Conflict Management **OR**<br>COMM 390 Conflict Management<br>SOCWRK 433 Aging: Social Policy and Programs<br>(Or other courses as approved by the advisor and department chair.) | |
| Electives to total 128 credits | 5-12 |
| Total | 128 |

**NOTE:** Health science students must earn at least a grade of C in all health (HLTHST) courses and all courses in their emphasis.
Students who intend to apply to colleges of medicine, dentistry or veterinary medicine should consider taking CHEM 317, 318, 319, 320 and PHYS 111, 112.

# Course Offerings

**See page 53 for a definition of the course-numbering system.**

**HLTHST — HEALTH SCIENCE**

**Lower Division**

**HLTHST 100 INTRODUCTION TO ALLIED HEALTH (1-0-1)(F).** Various allied health disciplines and their clinical functions are discussed. Information on basic educational requirements, opportunities, and advancement for each discipline of health care delivery. Lectures by allied health faculty and guest speakers from the medical community. Orientation to allied 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 170 CONCEPTS OF NUTRITION (1-0-1)(F/S).** Concepts of nutrition for health professionals. Focuses on nutrients, nutrition assessment, dietary guidelines, diet planning guides, dietary reference intakes, and the role of nutrition in health promotion and disease prevention. Students will complete a nutrition assessment.

**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).** Study of fundamentals of nutrition as a factor in maintaining good health. Present day problems in nutrition are also discussed. Previous or concurrent enrollment in CHEM 101 and BIOL 227 is suggested.

**HLTHST 211-212 DISEASE CONDITIONS I AND II (3-0-3)(F/S).** Introduction to the general principles of disease. Etiology, signs, symptoms, treatment, and management of diseases that affect individual organs in the various body systems. PREREQ: HLTHST 101. Sequence beginning fall semester.

**HLTHST 213/413 INTRODUCTION TO HEALTH LAW AND ETHICS (3-0-3)(F,S).** Study of the basic legal and ethical concepts considered to be essential in the care of clients by health providers, including informed consent, patient rights, and the role of professional codes of ethics. Upper-division students will complete extra assignments.

**HLTHST 216 LABORATORY VALUES (1-0-1)(F).** Introduction to the clinical significance of selected laboratory tests. PREREQ: PERM/INST.

**HLTHST 220 CARDIOPULMONARY RENAL PHYSIOLOGY (3-0-3)(F).** Normal and clinical physiological functions of the pulmonary, circulatory and renal systems. PREREQ: BIOL 227-228.

**HLTHST 255 INTRODUCTION TO THE FIELD OF ADDICTIONS (3-0-3)(F/S).** Addictions, impact of drugs on society, treatment modalities, and career opportunities.

**HLTHST 270 NUTRITION ACROSS THE LIFESPAN (1-0-1)(F/S).** Overview of human nutrition throughout pregnancy, infancy, childhood, and adulthood. Current topics including feeding practices, weight management, fad diets, and nutritional supplements. Students will complete a case study. PREREQ: HLTHST 170.

**Upper Division**

**HLTHST 300 PATHOPHYSIOLOGY (4-0-4)(F).** Emphasis on dynamic aspects of human disease. Disruption of normal physiology and alterations, derangements, and mechanisms involved. PREREQ: CHEM 101 or equivalent and BIOL 227-228 or equivalent.

**HLTHST 304-304G PUBLIC HEALTH ADMINISTRATION (3-0-3)(F/S).** Functions of local, state, and federal health agencies, and factors which have an impact on agency programs. Those students registered for graduate credit will complete extra work. PREREQ: Upper-division standing and college of health science major 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 410 HEALTH AND AGING (3-0-3)(F).** Course will focus on major health problems and issues of the elderly. It will include 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. The course will include 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 414 ASSESSMENT OF ALCOHOL AND DRUG PROBLEMS, PART I (3-0-3)(F).** Screening, assessment tools/procedures, and interventions for substance abuse. Legal, social, and health implications.

**HLTHST 415 ASSESSMENT OF ALCOHOL AND DRUG PROBLEMS, PART II (3-0-3)(S).** Emphasis on case management techniques. Continued legal, social, ethical and health implications. PREREQ: HLTHST 414 or PERM/INST.

**HLTHST 431 QUALITY ISSUES IN HEALTH CARE (3-0-3)(F).** The mind set, management, and improvement of quality, including the use of quality improvement tools and techniques to find and solve problems in the health care setting.

**HLTHST 432 CRITICAL REVIEW OF HEALTH CARE RESEARCH (3-0-3)(S).** Provides a forum to present and discuss issues that are pertinent to health care including political and economic issues, foreign health care systems, reimbursement issues, pertinent news items. Critically evaluate published literature, evaluate the scientific basis for practice. Familiarity with using the Internet required. PREREQ: MATH 254, PSYC 295, SOC 310, OR SOCWRK 380.

**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 BEDSIDE 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 445-445G ALCOHOL/DRUG ABUSE AND THE FAMILY (3-0-3)(F,S).** An examination of the effects of chemical abuse on the family system. Included are the roles family members assume to accommodate the chemically dependent person, and the financial and emotional costs to the entire family. Special attention is given to intervention and other treatment approaches.

**HLTHST 449-449G 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 466 INTRODUCTION TO COMPLEMENTARY AND ALTERNATIVE THERAPIES (2-0-2)(S).** Discussing medical practices other than allopathic medicine. Examples include Chinese and Indian medicine, guided imagery, naturopathy, and message therapy. The course explores the ethical, legal and policy issues surrounding these modalities. Discussion on current research of efficacy and consumer acceptance accompanies clinical demonstrations of selected modalities, such as acupuncture and massage therapy.

**HLTHST 480-480G EPIDEMIOLOGY (3-0-3)(S).** Study of the distribution of disease or physiological conditions of humans and of factors which influence this distribution. Those students registered for graduate credit will complete extra work. PREREQ: Upper-division standing, college of health science major or PERM/INST, and statistics or HLTHINFO 205.

**HLTHST 493 PREPROFESSIONAL INTERNSHIP (Variable credit).** Internship opportunities in health sciences are available through the department. PREREQ: Upper-division standing, cumulative GPA above 3.25, recommendation of faculty advisor, and PERM/INST. (Pass/Fail).

**HLTHST 498-499 SEMINAR (1-0-1 or 2-0-2)(F/S).** Presentation of selected health science topics under faculty direction. 1 or 2 credits.

## Addictions Studies Minor

Advisor: Dr. Sara La Riviere Telephone 208 426-3970
Health Science Riverside, Room 107
http://hs.boisestate.edu/alcohol

| Addictions Studies Minor | |
|---|---|
| **Course Number and Title** | **Credits** |
| HLTHST 109 Use and Abuse of Drugs | 3 |
| HLTHST 145 Family Skill Building Strategies | 1 |
| HLTHST 255 Introduction to the Field of Addictions | 3 |
| HLTHST 414 Assessment of Alcohol/Drug Problems, Part I | 3 |
| HLTHST 415 Assessment of Alcohol/Drug Problems, Part II | 3 |
| HLTHST 445 Alcohol/Drugs and the Family | 3 |
| KINES 140 Personal Health | 3 |
| SOC 435 Drugs in Societal Context | 3 |
| Two of the following: | 6 |
| HLTHST 449 Counseling Techniques for Health Professionals | |
| PSYC 212 Adolescent Psychology | |
| PSYC 213 Psychology of Aging | |
| PSYC 301 Abnormal Psychology | |
| PSYC 331 Psychology of Health | |
| Total | 25 |

## Pre-Professional Studies

Advisors:
Glenda C. Hill, Health Science Riverside, Room 104 208 426-3832
Sandra Quinn, Health Science Riverside, Room 102 208 426-2506
http://hs.boisestate.edu/preprof

Pre-professional studies is designed for students who need to have undergraduate studies prior to applying to a professional school, including students who have declared a major in pre-medicine, pre-dental, pre-dental hygiene, pre-dietetics, pre-occupational therapy, pre-optometry, pre-pharmacy, pre-physical therapy, pre-veterinary medicine, pre-chiropractic, pre-physician assistant, pre-speech therapy, or medical technology.

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, the Veterinary Aptitude Test, Allied Health Professions Admission Test, the Graduate Record Exam, etc.) must be taken at specific times. These examinations may or may not be administered on the BSU campus. 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 at first hand 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, or veterinarian. 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.

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 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, 112 College Chemistry and Labs; BIOL 191-192 General Biology I-II; PHYS 111, 112 General Physics; and CHEM 317, 318, 319, 320 Organic Chemistry and Labs with BIOL 301 Cell Biology 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 school of interest.

**Pre-Medical and Pre-Dental Advisor Information** Students with general questions and pre-medical and pre-dental students should contact Glenda Hill, 208 426-3832, Health Science Riverside, Room 104 or e-mail: ghill@boisestate.edu or Sandra Quinn, 208 426-2506, Health Science Riverside, Room 102 or e-mail: squinn@boisestate.edu.

## Degree Requirements

| Pre-Dental Studies OR Pre-Medical Studies Bachelor of Science | |
|---|---|
| **Course Number and Title** | **Credits** |
| ENGL 101, 102 English Composition | 6 |
| **Area I — see page 40 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 40 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 | 3-4 |
| CHEM 111, 112 College Chemistry | 9 |
| *CHEM 317, 318, 319, 320 Organic Chemistry and Labs | 8-10 |
| MATH 147 Precalculus | 5 |
| MATH 170, 171 Calculus I and Lab | 5 |
| PHYS 111, 112 General Physics | 8 |
| ZOOL 301 Comparative Anatomy | 4 |
| ZOOL 351 Vertebrate Embryology | 4 |
| **Biology Option** | |
| BIOL 303 General Bacteriology | 5 |
| CHEM 431, 432 Biochemistry with or without Lab | 3-4 |
| ZOOL 400 Vertebrate Histology | 4 |
| ZOOL 401 Human Physiology **OR** | 4 |
| ZOOL 409 General and Comparative Physiology | |
| **Electives to total 128 credits | 21-25 |
| Total | 128 |

*— continued —*

| *Pre-Dental or Pre-Medical Studies (continued)* | |
|---|---|
| **Chemistry Option** | |
| CHEM 321, 322, 323, 324 Physical Chemistry | 8 |
| CHEM 411 Analytical Chemistry II | 4 |
| CHEM 431, 432 Introduction to Biochemistry **OR** CHEM 211, 212 Analytical Chemistry I and Lab | 4-5 |
| CHEM 496 Chemistry Independent Studies | 2 |
| CHEM 499 Chemistry Seminar | 2 |
| MATH 175 Calculus II | 4 |
| MATH 275 Multivariable and Vector Calculus | 4 |
| *Electives to total 128 credits | 9-13 |
| Total | 128 |
| * Pre-dental students must earn at least 8 credits. Pre-medical students must earn at least 10 credits. ** Additional upper-division credits so that upper-division credits total at least 40. | |

## Pre-Veterinary Medicine

Advisor: Dr. Russell J. Centanni Telephone 208 426-3504
Science-Nursing Building, Room 212

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. Student must maintain either at least 3.20 overall GPA, at least 3.30 GPA the last 45 credits, and at least a 3.30 GPA in the prerequisite core requirements. Candidates with the greater depth and breadth of academic background are given preference by WSU.

Students should take either the Graduate Record Examination (GRE) or the Veterinary Aptitude Test (VAT) in October 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.

| Pre-Veterinary Medicine Bachelor of Science | |
|---|---|
| **Course Number and Title** | **Credits** |
| ENGL 101, 102 English Composition | 6 |
| **Area I — see page 40 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 40 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. | |
| BIOL 191-192 General Biology I-II | 8 |
| BIOL 301 Cell Biology | 3 |
| BIOL 303 General Bacteriology | 5 |
| BIOL 343 Genetics | 3 |
| CHEM 111, 112 College Chemistry | 9 |
| CHEM 317, 318, 319, 320 Organic Chemistry and Labs | 10 |
| CHEM 431, 432 Biochemistry | 4 |
| MATH 147 Precalculus | 5 |
| MATH 170-171 Calculus I and Lab | 5 |

*— continued —*

| *Pre-Veterinary Medicine (continued)* | |
|---|---|
| PHYS 111, 112 General Physics | 8 |
| Upper-division electives to total 40 credits | 25 |
| Electives | 12 |
| Total | 128 |
| NOTES: WSU now requires one semester each of algebra and trigonometry, organic chemistry, statistics, and general physics. However, two semesters are still needed to satisfy BSU degree requirements. | |

# Nondegree Programs

A number of health-related nondegree programs are available at BSU. Each is described below.

## Pre-Chiropractic

Advisor: Dr. Russell J. Centanni Telephone 208 426-3504
Science-Nursing Building, Room 212

The 3-year pre-chiropractic program satisfies the minimum requirements of most chiropractic institutions in the country. Students must maintain a minimum 2.50 GPA for consideration by chiropractic schools. Internships are available with local chiropractors; for more information, see the course description for HLTHST 493 Internship.

| 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, 112 College Chemistry | 9 |
| CHEM 317, 318, 319, 320 Organic Chemistry and Lab | 10 |
| MATH 147 Precalculus | 5 |
| PHYS 111, 112 General Physics | 8 |
| Additional course work (see advisor) | 26 |
| Total | 90 |
| Suggested electives: BIOL 205 Microbiology, COMM 101 Fundamental of Speech Communication, GENBUS 101 Introduction to Business, HLTHST 101 Medical Terminology, HLTHST 202 Health Delivery Systems, HLTHST 207 Nutrition, HLTHST 493 Pre-professional Internship, and ZOOL 301 Comparative Anatomy. | |

## Pre-Dietetics

Advisor: Dr. Elaine M. Long Telephone 208 426-3260
Health Science Riverside, Room 106

| 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 | 3 |
| PSYC 101 General Psychology | 3 |
| SOC 101 Introduction to Sociology | 3 |
| ACCT 205 Introduction to Financial Accounting | 3 |
| BIOL 205 Microbiology | 4 |
| BIOL 227, 228 Human Anatomy and Physiology | 8 |
| CHEM 101, 102 Essentials of Chemistry | 9 |
| ENGL 202 Technical Communication | 3 |
| HLTHST 207 Nutrition | 3 |
| MATH 108 Intermediate Algebra | 4 |
| MATH 254 Applied Statistics with the Computer | 4 |
| Elective (consult with your advisor) | 6 |
| Total | 65 |

## Pre-Dental Hygiene

Advisors: Glenda C. Hill Telephone 208 426-3832
Sandra Quinn Telephone 208 426-2506
Health Science Riverside

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 at BSU 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 BSU on the requirements of the specific professional school to which they expect to apply.

**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<br>PSYC 101 General Psychology<br>SOC 101 Introduction to Sociology<br>Area II core (history, economics, or anthropology) | 3<br>3<br>3<br>3 |
| BIOL 100 Concepts of Biology<br>BIOL 205 Microbiology<br>BIOL 227, 228 Human Anatomy and Physiology | 4<br>4<br>8 |
| CHEM 101, 102 Essentials of Chemistry | 9 |
| HLTHST 207 Nutrition | 3 |
| MATH 108 Intermediate Algebra **OR**<br>MATH 147 Precalculus<br>MATH 254 Applied Statistics with the Computer | 4-5<br><br>4 |
| Total | 60-61 |
| NOTE: Students should take Dent 201 Principles of Dental Hygiene (a 2 credit correspondence course from ISU) in their sophomore year. | |

## Pre- Medical Technology

Advisors: Dr. Robert Ellis Telephone 208 426-3478
Glenda C. Hill Telephone 208 426-3832

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. Medical technologists work in areas of hematology, serology and immunology, chemistry, blood banking, microbiology and parasitology, urinalysis, histology, and cytology.

To become a certified medical technologist candidates must have:

A. Graduated from an accredited college or university with a bachelor's degree in medical technology, or graduated with a bachelor's degree with a major in one of the biological or chemical sciences and completed at least one year of approved laboratory experience.

B. Completed at least 90 semester hours or 135 quarter credit hours in an accredited college. This can include junior college credit and must include 40 semester hours or 60 quarter hours in those disciplines that comprise medical technology. In addition, applicant must complete at least one year of approved laboratory experience. This route is valid only if the program awarded a baccalaureate degree or if the individual has otherwise earned a B.S. degree.

A criterion for admission to many professional schools of medical technology is a bachelor of science degree. The bachelor of science degree in Health Science Studies or Biology (Microbiology or Molecular and Cell Biology Emphasis) usually satisfies this requirement. Other medical technology programs have specific prerequisite requirements, but do not require a bachelor's degree prior to admission.

The only Medical Technology program within Idaho is located at Idaho State University. ISU strongly recommends that applicants earn a bachelor's degree in a related science area (Biology/Microbiology/Health Science Studies) prior to entry into their program.

Although prerequisite requirements vary for each Medical Technology program, common prerequisite course work may include: College Chemistry (note prerequisite math requirements), Organic Chemistry, General Biology, Microbiology, and General Physics. Other related elective courses may include: Cell Biology, Immunology, Pathogenic Bacteriology, Biochemistry, Human Physiology, Parasitology, Histology, Genetics, Quantitative Analysis, and statistics. Students are encouraged to work closely with their academic advisor for appropriate course selection.

## Pre-Occupational Therapy

Advisors: Glenda C. Hill Telephone 208 426-3832
Sandra Quinn Telephone 208 426-2506
Health Science Riverside

Occupational therapy schools differ considerably in their pre-professional requirements. A minimum of two 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.

**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<br>PSYC 101 General Psychology<br>SOC 101 Introduction to Sociology<br>Area II core course (determined by professional school or degree choice) | 3<br>3<br>3<br>3-6 |
| BIOL 100 Concepts of Biology **OR**<br>BIOL 191-192 General Biology I-II<br>BIOL 227, 228 Human Anatomy and Physiology | 4<br>8<br>8 |
| HLTHST 101 Medical Terminology | 3 |
| MATH 108 Intermediate Algebra **OR**<br>MATH 147 Precalculus<br>Depends on math requirements at professional school | 4-5 |
| PSYC 295 Statistical Methods<br>PSYC 301 Abnormal Psychology<br>Developmental Psychology (options vary) | 3<br>3 |
| Other recommended courses depend on the selected professional occupational therapy school.<br>Frequently required prerequisites: CHEM 101, PHYS 111, ART 105, ART 106, ART 123, ART 225 or other applied art courses. | Varies |
| Total | Varies |

## Pre-Optometry

Advisors: Glenda C. Hill Telephone 208 426-3832
Sandra Quinn Telephone 208 426-2506
Health Science Riverside

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.

Although a minimum of two 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 write to the optometry schools of their choice for a list of specific courses. However, all optometric schools and colleges require at least two-three years of pre-optometric study, as shown below.

| Pre-Optometry | |
|---|---|
| **Course Number and Title** | **Credits** |
| ENGL 101, 102 English Composition | 6 |
| BIOL 191-192 General Biology I-II<br>BIOL 205 Microbiology<br>BIOL 227, 228 Human Anatomy and Physiology | 8<br>4<br>8 |
| CHEM 111, 112 College Chemistry<br>CHEM 317, 319 Organic Chemistry and Lab | 9<br>5 |
| MATH 147 Precalculus<br>MATH 170-171 Calculus I and Lab | 5<br>5 |
| PHYS 111, 112 General Physics | 8 |
| Total | 59 |

Additional courses that may be needed for the pre-optometric program:

| | | |
|---|---|---|
| Psychology | Differential Calculus | Comparative Anatomy |
| Philosophy | Art History | Statistics |
| Organic Chemistry | Social Science | Analytic Geometry |
| Bacteriology | Literature | Integral Calculus |
| Physiology | Microbiology | Introduction to Theatre |
| Algebra and Trigonometry | | |

## Pre-Pharmacy

Advisor: Dr. Robert Ellis Telephone 208 426-3478
Science-Nursing Building, Room 314

BSU students who wish to receive a doctorate of pharmacy (Pharm. D.) usually plan to take their pre-professional courses at BSU and then apply for admission to the College of Pharmacy at Idaho State University (ISU). The pharmacy program consists of two-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 school 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.

| 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<br>ECON 201 Principles of Macroeconomics<br>Area II core course | 3<br>3<br>6-12 |
| BIOL 191 General Biology I<br>BIOL 227, 228 Human Anatomy and Physiology<br>BIOL 205 Microbiology | 4<br>8<br>4 |
| CHEM 111, 112 College Chemistry<br>CHEM 317, 318, 319, 320 Organic Chemistry and Labs | 9<br>10 |
| MATH 147 Precalculus<br>MATH 170-171 Calculus I and Lab | 5<br>5 |
| PHYS 111 General Physics | 4 |
| Total | 73-85 |

## Pre-Physical Therapy

Advisors: Glenda C. Hill Telephone 208 426-3832
Sandra Quinn Telephone 208 426-2506
Health Science Riverside

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.

Because of the highly competitive nature of admittance into physical therapy programs, along with the transition to an increasing number of master's entry-level physical therapy programs, **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.

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<br>PSYC 101 General Psychology<br>SOC 101 Introduction to Sociology<br>other Area II (Refer to additional requirements of major and professional school requirements.) | 12 |
| BIOL 100 Concepts of Biology<br>BIOL 227, 228 Human Anatomy and Physiology | 4<br>8 |
| CHEM 111, 112 College Chemistry | 9 |
| MATH 147 Precalculus | 5 |
| PHYS 111, 112 General Physics | 8 |
| PSYC 295 Statistical Methods<br>PSYC 301 Abnormal Psychology | 3<br>3 |
| Total | 70 |

Other suggested courses: CHEM 317, 319 Organic Chemistry and Lab, BIOL 205 Microbiology, KINES 270, 271 Applied Anatomy and Lab, KINES 330, 331 Exercise Physiology and Lab, KINES 370, 371 Biomechanics and Lab, 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

Advisors: Glenda C. Hill Telephone 208 426-3832
Sandra Quinn Telephone 208 426-2506
Health Science Riverside

Physician assistants are taught at educational programs located primarily in university schools of medicine and allied health. Most physician assistant programs require 21 to 24 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 many 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.

In order to be licensed in Idaho, physician assistants must have a baccalaureate degree. The health science studies degree (see department of health studies) 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)<br>Suggested courses: COMM 101, PSYC 101, SOC 101 | 6-12 |
| BIOL 100 Concepts of Biology **OR**<br>BIOL 191-192 General Biology I-II<br>BIOL 205 Microbiology<br>BIOL 227, 228 Human Anatomy and Physiology | 4-8<br><br>4<br>8 |
| CHEM 111, 112 College Chemistry<br>CHEM 317, 319, Organic Chemistry and Lab may be required or recommended. | 9 |
| HLTHST 101 Medical Terminology | 3 |
| MATH 108 Intermediate Algebra **OR**<br>MATH 147 Precalculus<br>Depends on math requirements at professional school or degree choice | 4-5 |
| PSYC 301 Abnormal Psychology<br>PSYC 295 Statistical Methods | 3<br>3 |
| Total | 56-70 |

## Pre-Speech-Language Pathology

Advisors: Glenda C. Hill — Telephone 208 426-3832
Sandra Quinn — Telephone 208 426-2506
Health Science Riverside

The curriculum below reflects a new 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 BSU and apply to the ISU 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.

| 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<br>PSYC 101 General Psychology<br>Area II core course (select with an advisor) | 3<br>3<br>3 |
| BIOL 100 Concepts of Biology<br>BIOL 227, 228 Human Anatomy and Physiology | 4<br>8 |
| ANTH 209 Issues in Cultural Diversity **OR**<br>SOC 230 Intro to Multi-Ethnic Studies | 3 |
| COMM 122 Introduction to Sign Language | 3 |
| ENGL 202 Technical Writing | 3F |
| MATH 108 Intermediate Algebra<br>MATH 254 Applied Statistics with Computers | 4<br>4 |
| PSYC 309 Child Development<br>PSYC 441 Psychology of Learning | 3<br>3 |
| Suggested electives:<br>LING 305 Introduction to Language Studies<br>Other electives as selected with advisor | <br>3<br>6-12 |
| Total | 56-70 |
| 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. | |

# Department of History

Albertsons Library, Room 192 — Telephone 208 426-1255
http://www.boisestate.edu/history — Fax 208 426-4058
e-mail: gjohnson@boisestate.edu

*Chair and Professor:* Peter Buhler. *Professors:* Fletcher, Jones, Odahl, Shallat, Sims, Vinz, Zirinsky. *Associate Professors:* Casner, Lundy, Miller, Schackel, Woods. *Assistant Professor:* Gill.

*Director of Graduate Studies and Associate Professor:* Sheldon Woods.
*Director of Classical Languages and Professor:* Charles Odahl.

## Degrees Offered

- B.A. in History
- B.A. in History, Secondary Education
- M.A. in History (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.

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, twelve 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) United States and Canada, 2) European, 3) regional history which includes Asia, Africa, Latin America, and the Middle East. (Note that HIST 210 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 minor certification endorsement consisting of 12 credits of lower-division history core courses, three 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 classical languages and literature, with a 29-hour academic minor in Latin language and literature and a 20-hour minor certification endorsement for teaching Latin in secondary schools.

## Degree Requirements

| History<br>Bachelor of Arts | |
|---|---|
| **Course Number and Title** | **Credits** |
| ENGL 101, 102 English Composition | 6 |
| **Area I — see page 40 for list of approved courses** | |
| Area I core course in literature<br>Area I core course in a second field<br>Area I core course in a third field<br>Area I core course in any field | 3<br>3<br>3<br>3 |
| **Area II — see page 40 for list of approved courses** | |
| POLS 101 American National Government<br>Area II core course in history<br>Area II core course in a third field<br>Area II core course in any field, except history | 3<br>3<br>3<br>3 |
| **Area III — see page 40 for list of approved courses** | |
| *Area III core course in mathematics<br>Area III core course in a second field<br>Area III core course in any field<br>*Any four credit approved course, MATH 124 recommended | 4<br>4<br>4 |

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| History (continued) | |
|---|---|
| Additional Area I and II courses | 9 |
| HIST 101/201 History of Western Civilization<br>HIST 102/202 History of Western Civilization<br>HIST 105 Eastern Civilizations<br>HIST 111/211 U. S. History<br>HIST 112/212 U. S. History<br>*HIST 210 Introduction to the Study of History<br>*Must be completed with a grade of 'C' or better | 3<br>3<br>3<br>3<br>3<br>3 |
| One year of college level foreign language in sequence<br>Language equivalency required by the history department will be determined by the department of modern languages or the classical language program director. | 8 |
| 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 | 11 |
| Total | 128 |
| **NOTE:** Majors must have upper-division course work distributed between U.S., European, and regional history, with at least 12 hours in one area and at least 6 hours in each of the other two. | |

## History, Secondary Education Bachelor of Arts

| Course Number and Title | Credits |
|---|---|
| ENGL 101, 102 English Composition | 6 |
| **Area I — see page 40 for list of approved courses** | |
| Area I core course in literature<br>Area I core course in a second field<br>Area I core course in a third field<br>Area I core course in any field | 3<br>3<br>3<br>3 |
| **Area II — see page 40 for list of approved courses** | |
| POLS 101 American National Government<br>Area II core course in history<br>Area II core course in a third field<br>Area II core course in any field, except history | 3<br>3<br>3<br>3 |
| **Area III — see page 40 for list of approved courses** | |
| *Area III core course in mathematics<br>Area III core course in a second field<br>Area III core course in any field<br>*Any four credit approved course, MATH 124 recommended | 4<br>4<br>4 |
| EDUC 201 Foundations of Education<br>EDUC 202 Educational Technology – Classroom Applications<br>EDUC 301 Teaching: Experience I<br>EDUC 302 Learning and Instruction<br>EDUC 350 Teaching Students with Exceptional Needs at the Secondary Level<br>EDUC 401 Professional Year - Teaching Experience II<br>EDUC 402 Content Literacy for Secondary Students<br>EDUC 405 Teaching Secondary Social Studies<br>Teaching Experience III/IV<br>NOTE: Completion of all requirements for graduation with a secondary education option may require more than 128 credit hours. See "Teacher Education" for more information. | 3<br>3<br>1<br>4<br>3<br>2<br>3<br>3<br>16 |
| HIST 101/201 History of Western Civilization<br>HIST 102/202 History of Western Civilization<br>HIST 105 Eastern Civilizations<br>HIST 111/211 U. S. History<br>HIST 112/212 U. S. History<br>*HIST 210 Introduction to the Study of History<br>*Must be completed with a grade of 'C' or better | 3<br>3<br>3<br>3<br>3<br>3 |
| One year of college level foreign language in sequence<br>Language equivalency required by the history department will be determined by the department of modern languages or the classical language program director. | 8 |
| History Seminar | 3 |

— continued —

| History, Secondary Education (continued) | |
|---|---|
| Upper-division history major emphasis | 12 |
| Upper-division history minor field I | 6 |
| Upper-division history minor field II | 6 |
| Electives to total 128 credits | 0-1 |
| Total | 128-133 |
| **NOTE:** Majors must have upper-division course work distributed between U.S., European, and regional history, with at least 12 hours in one area and at least 6 hours in each of the other two. | |

## History Minor

| Course Number and Title | Credits |
|---|---|
| HIST 101 History of Western Civilization **OR**<br>HIST 102 History of Western Civilization **OR**<br>HIST 201 Problems in Western Civilization **OR**<br>HIST 20 Problems in Western Civilization | 3 |
| HIST 105 Eastern Civilizations | 3 |
| HIST 111 U. S. History **OR**<br>HIST 112 U. S. History **OR**<br>HIST 211 Problems in U. S. History **OR**<br>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**<br>HIST 201, 202 Problems in Western Civilization<br>HIST 105 Eastern Civilizations<br>HIST 111, 112 U. S. History **OR**<br>HIST 211, 212 Problems in U. S. History | 3<br><br>3<br>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 U. S., European, and regional | 12 |
| Total | 27 |

## Classical Languages-Latin, Secondary Education Minor

| Course Number and Title | Credits |
|---|---|
| LATIN 211 Elementary Classical Latin Language and Literature<br>LATIN 212 Advanced Classical Latin Language and Literature<br>LATIN 323 Early Church Latin Literature<br>LATIN 324 Medieval Latin Literature<br>LATIN 491 Advanced Latin Tutorial-Augustan Age<br>LATIN 492 Advanced Latin Tutorial-Constantinian Era | 4<br>4<br>3<br>3<br>3<br>3 |
| Total | 20 |
| **NOTE:** The State Department of Education requires 20 credit hours, 9 in 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: HIST 320 Ancient Rome, ART 101 Survey Western Art, ENGL 217 Mythology, HIST 323 Early Christianity, HIST 324 Medieval Europe, HIST 481 European Seminar on Augustus and the Golden Age of Rome, HIST 481 European Seminar on Constantine and the Late Roman Empire, HIST 381 European Colloquium on the Age of the Cathedrals, PHIL 305 Ancient Philosophy, and PHIL 307 Medieval Philosophy. | |

| Latin Language and Literature Minor | |
|---|---|
| **Course Number and Title** | **Credits** |
| LATIN 211 Elementary Classical Latin Language and Literature<br>LATIN 212 Advanced Classical Latin Language and Literature<br>LATIN 323 Early Church Latin Literature<br>LATIN 324 Medieval Latin Literature<br>LATIN 491 Advanced Latin Tutorial-Augustan Age<br>LATIN 492 Advanced Latin Tutorial-Constantinian Era | 4<br>4<br>3<br>3<br>3<br>3 |
| HIST 320 Ancient Rome | 3 |
| History and culture courses chosen from ART 101 Survey of Western Art, ENGL 217 Mythology, HIST 323 Early Christianity, HIST 324 Medieval Europe, HIST 481 European Seminar on Augustus and the Golden Age of Rome, HIST 481 European Seminar on Constantine and the Late Roman Empire, HIST 381 European Colloquium on the Age of the Cathedrals, PHIL 305 Ancient Philosophy, and PHIL 307 Medieval Philosophy | 6 |
| Total | 29 |

# Course Offerings

**See page 53 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 210 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 104 HISTORY OF SCIENCE (3-0-3)(F/S)(Alternate years).** A survey on the development of the western concept of science and cultural and scientific interaction at selected critical points of change in western history; the origins of science under the Greeks; medieval assumptions about the physical world; the scientific revolution of the seventeenth and eighteenth centuries; biological theories; and science in the modern world.

**HIST 105 EASTERN CIVILIZATIONS (3-0-3)(F,S)(Area II).** 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 111, 112 UNITED STATES HISTORY (3-0-3)(Area II)(Formerly HIST 151, HIST 152).** First semester: the 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 201 PROBLEMS IN WESTERN CIVILIZATION (3-0-3)(F/S)(Area II).** A study of 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: High school course in world history or related subject matter or PERM/INST.

**HIST 202 PROBLEMS IN WESTERN CIVILIZATION (3-0-3)(F/S)(Area II).** A study of selected historiographical problems the researcher encounters when interpreting the history of western civilization from early modern European times through the modern twentieth century. Not open to students with credit in HIST 102. PREREQ: High school course in world history or related subject matter or PERM/INST.

**HIST 210 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.

**HIST 211 PROBLEMS IN U.S. HISTORY (3-0-3)(F)(Area II)(Formerly HIST 251).** Selected problems from colonial times through reconstruction following the Civil War. Not open to students who have completed HIST 111. PREREQ: High school history course or PERM/INST.

**HIST 212 PROBLEMS IN U.S. HISTORY (3-0-3)(S)(Area II)(Formerly HIST 252).** Selected problems from the rise of industrialism after the Civil War to the present. Not open to students who have completed HIST 112. PREREQ: High school history course or PERM/INST.

**HIST 261 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.

**Upper Division**

**HIST 303 THE ENLIGHTENMENT AND THE FRENCH REVOLUTION (3-0-3)(F/S)(Alternate years).** A study of European thought in the seventeenth and eighteenth centuries, with emphasis upon monarchical absolutism, the crisis of the Old Regime, and the coming of the French Revolution. Recommended: HIST 101. PREREQ: HIST 102.

**HIST 307 MODERN GERMANY (3-0-3)(F/S)(Alternate years).** The struggle for German unity in modern times, and the relation of this issue to the origins of the two World Wars. The problem will be traced through the "opening to the east" inspired by Willy Brandt. HIST 102 recommended.

**HIST 308 FRANCE SINCE THE REVOLUTION (3-0-3)(F/S)(Alternate years).** The failure of the French people in the nineteenth and twentieth centuries to achieve political and social equilibrium. The problem will be traced through the establishment of the fifth Republic by Charles deGualle. HIST 102 recommended.

**HIST 309 THE RENAISSANCE (3-0-3)(S)(Alternate years).** A study of European society, economic development, artistic expression, humanism, and political concepts from the twelfth through sixteenth centuries. PREREQ: HIST 101 or PERM/INST.

**HIST 310 THE REFORMATION (3-0-3)(F)(Alternate years).** Survey of church-state relationships including the Babylonian "Captivity of the papacy," the Great Schism, the impact of the national state, the theological and political philosophies of reformers from Wycliff to the Council of Trent, and the world wide impact of Protestantism, the Catholic Reformation, and dissident minority sects. PREREQ: HIST 101 or PERM/INST.

**HIST 311, 312 HISTORY OF ENGLAND (3-0-3)(F/S)(Alternate years).** First semester: Survey of the major cultural, political, economic, and religious developments in England from the beginning to 1688. Second semester: Great Britain from the seventeenth century to the present.

**HIST 313, 314 HISTORY OF RUSSIA (3-0-3)(F/S)(Alternate years).** HIST 313: Origin and development of the Kievan and Muscovite states. HIST 314: growth and development of Tsarist Russia.

**HIST 317 HISTORY OF SOVIET RUSSIA (3-0-3)(F/S)(Alternate years).** A survey of the history of Soviet Russia from the last tsars through the present.

**HIST 319 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 320 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 323 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 324 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 325 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. The course 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 326 THE HISTORY OF THE BALKANS SINCE 1453 (3-0-3)(S)(Alternate years).** This course will consider the history of the southeast European region since 1453. It 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 327 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 105.

**HIST 329 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 330 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 331 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 332 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 333 HISTORY OF SPORTS AND THE AMERICAN IDEAL (3-0-3)(F/S) (Alternate years).** Traces the historic development of sport in America and its impact on American society. From Indian games to big league this course has something for every interest. The area of sport is placed within the context of American thought and the social milieu of the nation.

**HIST 334, 334G UNITED STATES SOCIAL AND CULTURAL HISTORY (3-0-3)(F/S) (Alternate years).** Selected themes from colonial times to the present. The nature and meaning of the national experience, customs, traditions, and intellectual developments. HIST 111, 112 recommended.

**HIST 335 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 336 UNITED STATES CONSTITUTIONAL HISTORY (3-0-3)(F)(Alternate years).** A study of the origins, writing, and development of the American constitution with emphasis on the role of the Supreme Court. PREREQ: HIST 111, 112 or PERM/INST.

**HIST 338 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 340 WOMEN IN AMERICA FROM THE COLONIAL ERA TO THE PRESENT (3-0-3)(F)(Alternate years).** 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 344 THE HISTORY OF MODERN SOUTHEAST ASIA (3-0-3)(S)(Alternate years).** This course 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 345 THE HISTORY OF TWENTIETH CENTURY CHINA (3-0-3)(S)(Alternate years).** China's transition from the Qing Dynasty (1912) to the Nationalist period (1928-1949) will introduce twentieth century China. The emphasis in this course will be on post World War II China and China's growth in the post-Mao Zedong era.

**HIST 346 CRITICAL ISSUES IN MODERN ASIAN HISTORY (3-0-3)(F)(Alternate years).** This course examines how the historic rural/urban relations, gender issues, and interregional trade and conflict throughout Asia have changed since World War II.

**HIST 350 EUROPEAN EXPLORATION OF NORTH AMERICA (3-0-3)(S) (Alternate years).** A political, economic, and social examination of the history of European exploration of North America from the Age of Reconnaissance (fifteenth century) to the end of the nineteenth century.

**HIST 351 COLONIAL AMERICA (3-0-3)(F)(Alternate years).** Colonial rivalry in North America; an investigation of the political organizations, social institutions, economic development, and the war for American independence. PREREQ: HIST 111 or PERM/INST.

**HIST 353 THE NATIONAL ERA, 1815-1848 (3-0-3)(S)(Alternate years).** The development of American nationalism, the Era of Good Feelings, the emergence of Jacksonian democracy, Manifest Destiny, the beginnings of sectional rivalry, and the Mexican War. PREREQ: HIST 111 or PERM/INST.

**HIST 354 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 355 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 356 THE INDIAN IN UNITED STATES HISTORY (3-0-3)(F/S)(Alternate years).** Emphasis is on Indian-white relations. The time period studied extends from early contacts, European rivalries, and the origins of the United States Indian policy, to the reservation system, "Red Power," and current Indian problems.

**HIST 357 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 358 THE GILDED AGE (3-0-3)(S)(Alternate years).** A study of United States history from 1877 to 1917, with emphasis upon industrial and concomitant social developments, emergence as a world power, and national responses to these changes, culminating with the Progressive Movement and Woodrow Wilson's "New Freedom." PREREQ: HIST 112 or PERM/INST.

**HIST 359 RECENT UNITED STATES, 1917 to Present (3-0-3)(S)(Alternate years).** Versailles and post-war disillusionment, boom and bust of the 1920's, the Great Depression and FDR's New Deal, reappearance on the world scene, World War II and its aftermath. HIST 112 recommended.

**HIST 365 ISSUES IN U. S. PUBLIC HEALTH HISTORY (3-0-3)(S)(Alternate Years)**. Examines American public health concerns from European conquest to the present. Readings and lectures discuss the influence of infectious diseases, the development of medicine, sanitation, public health institutions and policy. Pays particular attention to the experience of the western United States.

**HIST 366 NATURAL ENVIRONMENT IN U. S. HISTORY (3-0-3)(F)(Alternate Years)**. Examines various historical issues concerning American history and the natural world. Issues include cultural values related to philosophical and religious perspectives on the meaning of nature, the landscape's function in economic development, and forces that produced government policy. Considers the American environment as a vital facet of national identity.

**HIST 367 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 368 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 373 THE HISTORY OF THE HABSBURG MONARCHY, 1526-1918 (3-0-3)(S) (Alternate years).** The Habsburg monarchy dominated the lands of Central and Eastern Europe from the sixteenth century to the end of the First World War. This course will examine the reasons for its long survival as well as the sources of its collapse.

**HIST 374 EASTERN EUROPE SINCE THE SECOND WORLD WAR (3-0-3)(F) (Alternate years).** This course will examine 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 380 COLLOQUIUM IN AMERICAN 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. Colloquium may be repeated. PREREQ: Upper-division standing.

**HIST 381 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. Colloquium 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. Colloquium may be repeated. PREREQ: Upper-division standing.

**HIST 410 ARCHIVES AND MANUSCRIPTS (3-0-3)(S).** Practical experience in the arrangement and description of manuscript collections located in the Idaho State Archives and the research and writing of a paper using original or primary sources, including newspaper collections located in the Archives.

**HIST 417 (ECON 417) UNITED STATES ECONOMIC HISTORY (3-0-3)(F/S).** Major factors in the economic growth and development of the United States from colonial times to the present. Particular emphasis is given to the interaction of economic factors and other aspects of American society. PREREQ: ECON 201 and ECON 202 or PERM/INST. May be taken for history or economics credit, but not for both.

**HIST 422 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 423, 423G EUROPEAN DIPLOMATIC HISTORY 1871-Present (3-0-3)(F/S) (Alternate years).** Major problems in European diplomacy since 1871; search for security after unification of Germany, potential collapse of Ottoman empire, imperialism in Africa and Asia, alliance systems, origins of World Wars I and II, the Cold War, and merging of European diplomacy into world diplomacy.

**HIST 468 HISTORY OF MEXICO (3-0-3)(F/S)(Alternate years).** An examination of 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 367.

**HIST 480 SEMINAR IN AMERICAN 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 481 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 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. Seminar may be repeated. PREREQ: Upper-division standing.

**HIST 498 HISTORY SEMINAR (3-0-3).**

**CLASSICAL LANGUAGES**

**GREEK — GREEK**

**Lower Division**

**GREEK 211 ELEMENTARY ANCIENT GREEK LANGUAGE and LITERATURE (3-2-4)(F)(Alternate years).** An intensive introduction to the basic vocabulary, grammar, and syntax of ancient Greek with emphasis on comprehension of the nominal declension and verbal conjugation forms of the language; and a survey of classical Greek literature from the eighth to the fourth century B.C., with short reading passages excerpted from the ancient authors.

**GREEK 212 ADVANCED ANCIENT GREEK LANGUAGE and LITERATURE (3-2-4)(S)(Alternate years).** Second semester of the intensive introduction to the study of ancient Greek with emphasis on comprehension of the advanced grammatical forms and syntactical patterns of the language; and a survey of late classical and early Christian Greek literature to the fourth century A.D., with translations and analyses of extended passages from the ancient authors. PREREQ: GREEK 211.

**LATIN — 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 320 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, 323G 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: A year of college Latin and HIST 323 Early Christianity.

**LATIN 324, 324G 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 Jacque De Vitry. Recommended: A year of college Latin and HIST 324 Medieval Europe.

**LATIN 491, 491G ADVANCED LATIN TUTORIAL – AUGUSTAN AGE (2-2-3)(SU/F)(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 481/581 European Seminar on Augustus and the Golden Age of Rome. PREREQ: PERM/INST.

**LATIN 492, 492G ADVANCED LATIN TUTORIAL - CONSTANTINIAN ERA (2-2-3)(SU/F)(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 481/581 European Seminar on Constantine and the Late Roman Empire. PREREQ: PERM/INST.

# Honors College

Driscoll Hall
http://www.boisestate.edu/honors
e-mail: graymon@boisestate.edu
Telephone 208 426-1122
Fax 208 426-1247

*Director and Professor:* Dr. Gregory A. Raymond.
*Activities Coordinator:* Wendi Story-McFarland.

## Statement of Purpose

The Honors College at Boise State University provides exceptional undergraduate students with a challenging interdisciplinary curriculum and a variety of co-curricular activities focusing on the environment. Open to majors from all academic fields, the goal of the college is to enrich their educational experience by creating a community of scholars in the midst of a large metropolitan 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 BSU 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 automatically 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. Granting 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 208 426-1122.

## 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 and incentive 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 *Directory 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 *Directory 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 or distinguished 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 maybe a creative activity if appropriate to the discipline as determined by the department involved and the director of the Honors College.

## Honors Graduation

**Honors/Distinguished Honors Requirements**

| Course Number and Title | Credits |
|---|---|
| HONORS 198 or 298 Honors Seminar<br>HONORS 391 Prospectus Writing for Senior Honors Project<br>HONORS 491 Senior Honors Project | 1<br>1<br>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<br>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 H Interdisciplinary 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, internship, and the BSU Studies Abroad Program. In addition, it provides summer fellowships for students who wish to conduct 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 $12,000 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, Truman, Rotary, and Fulbright.

### Humanities — see Department of English

### Human Resource Management — see Department of Management

### Illustration — see Department of Art

# Department of Instructional & Performance Technology

Engineering and Technology Building, Room 338 Telephone 208 426-1312
http://coen.boisestate.edu/dep/ipt.htm Fax 208 426-1970
e-mail: lburnett@boisestate.edu

*Department Chair and Associate Professor:* Mark Eisley.

## Degrees Offered

- M.S. in Instructional & Performance Technology (See the *BSU Graduate Catalog.*)

## Course Offerings

**See page 53 for a definition of the course-numbering system.**

**IPT — INSTRUCTIONAL & PERFORMANCE TECHNOLOGY**
**Upper Division**

**IPT 450-450G METHODS AND MEDIA FOR DELIVERING INSTRUCTION VIA TWO-WAY COMPRESSED VIDEO (1-0-1).** Prepares students to make use of compressed video technologies for the delivery of academic and vocational instruction, and helps current and pre-service teachers adapt their instructional methods and media for use in a two-way compressed video classroom.

# Interdisciplinary Studies Program

Science/Nursing Building, Room 106 Telephone 208 426-1414
http://www.boisestate.edu/artsci Fax 208 426-3006
e-mail: ids@boisestate.edu

*Director:* Kent Neely, 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 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 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 a three-person faculty Advisory Committee.
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 three members of the proposed faculty Advisory Committee. As of the date of approval of the degree plan, a total of at least 45 credit hours, including at least 30 credit hours of the major, must remain to be completed.
   c. a three-page statement of justification which (1) states intellectual, professional, or vocational reasons for requesting entry into the program; (2) explains why established majors at BSU do not meet the applicant's needs; and (3) justifies 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 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.

**Interdisciplinary Studies**
**Bachelor of Arts or Bachelor of Science**

| Course Number and Title | Credits |
|---|---|
| ENGL 101, 102 English Composition | 6 |
| **Area I — see page 40 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<br>(B.A. must complete three credits of Area I core literature.) | 3 |
| **Area II — see page 40 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<br>(B.A. must complete three credits of Area II history.) | 3 |

*— continued —*

*Interdisciplinary Studies (continued)*

| | |
|---|---|
| **Area III — see page 40 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<br>These courses do not have to be selected from the approved core list, but are to be chosen from anthropology, art, communication, economics, foreign language, geography, history, humanities, literature, music, philosophy, political science, psychology, social work, sociology, teacher education, and theatre arts. | 9 |
| **Bachelor of Science Area II or III electives** | |
| Area II or III electives<br>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 administration, economics, engineering, geography, geology, history, mathematics, physical science, physics, political science, psychology, social work, sociology, and teacher education. | 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<br>Credits from all 300– and 400–level courses, whether elective or required, are applicable. The number in the right-hand column is an estimated number of additional upper-division credits that may be needed to satisfy this requirement. | 0-17 |
| Electives to total 128 credits<br>The number in the right-hand column is an estimated number of remaining elective credits that can be taken at either upper– or lower–division level. | 2-21 |
| Total | 128 |

## Course Offerings

**See page 53 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

Business Building, Room 201 Telephone 208 426-4205
http://cobe.boisestate.edu/ib/ Fax 208 426-3637
e-mail: intbus@boisestate.edu

*Director and Associate Professor:* Mark A. Buchanan. *Program Faculty: Professor:* Napier. *Assistant Professor:* Neupert. *Contributing Faculty:* Baughn, D. Christensen, Frankle, Lichtenstein, Limaye, McCain, Nagasundaram, Ray, Sarikas, Schooley, Twight, White, Wojtkowski.

## 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 as a minor or second degree 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 that 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. Contact the IBP office.

### International Business
### Bachelor of Business Administration

| Course Number and Title | Credits |
|---|---|
| ENGL 101, 102 English Composition | 6 |
| **Area I — see page 40 for list of approved courses** | |
| ****Language 201-202 | 8 |
| **Area II — see page 40 for list of approved courses** | |
| ECON 201 Principles of Macroeconomics | 3 |
| ECON 202 Principles of Microeconomics | 3 |
| HIST 102 History of Western Civilization **OR** | 3 |
| HIST 105 Eastern Civilization | |
| POLS 231 International Relations | 3 |
| **Area III — see page 40 for list of approved courses** | |
| Area III core course - (MATH 143 or MATH 147) | 3-5 |
| Area III core course - (MATH 160 or MATH 170,171) | 4-5 |
| Area III core course in a lab science | 4 |
| *ACCT 205 Introduction to Financial Accounting | 3 |
| *ACCT 206 Introduction to Managerial Accounting | 3 |
| *BUSCOM 328 Business Communications | 3 |
| BUSSTAT 207, 208 Statistical Techniques for Decision Making I & II | 6 |
| *CIS 310 Introduction to Management Information Systems | 3 |
| ECON 317 International Economics | 3 |
| *-**FINAN 303 Principles of Finance | 3 |
| *FINAN 430 International Finance | 3 |
| *GENBUS 202 The Legal Environment of Business | 3 |
| *GENBUS 450 Business Policy | 3 |
| *INTBUS 320 Managing a Global Economy | 3 |
| *INTBUS 455 Senior Seminar in Global Strategy | 3 |
| *-**MGMT 301 Leadership Skills | 3 |
| *MGMT 334 International Management | 3 |
| *-**MKTG 301 Principles of Marketing | 3 |
| *MKTG 430 International Marketing | 3 |
| *-**OPERMGT 345 Principles of Production Management | 3 |
| *Business electives | 12 |
| History course (300- or 400-level)<br>The course should relate to the language of interest. Choose from HIST 303 The Enlightenment and the French Revolution, HIST 307 Modern Germany, HIST 308 France Since the Revolution, HIST 312 History of England, HIST 314 History of Russia, HIST 317 History of Soviet Russia, HIST 329 History of Modern South Asia, HIST 330 History of Modern Africa, HIST 331 The Islamic Middle East, HIST 332 The Modern Middle East, HIST 344 History of Modern Southeast Asia, HIST 345 History of 20th Century China, HIST 346 Critical Issues in Modern Asian History, HIST 368 Modern Latin America, HIST 374 Eastern Europe Since the Second World War, HIST 468 History of Mexico, HIST 481 Colloquium in European History. | 3 |
| *International business elective (300- or 400-level)<br>Choose one from this list or other internationally related courses approved by an International Business advisor: ECON 315 Comparative Economic Systems, ECON 319 Development Economics, INTBUS 440 Cultures, Communication, and Global Business, INTBUS 443 Importing and Exporting Procedures, INTBUS 445 International Trade and Investment Law, INTBUS 497 Special Topics in International Business, MKTG 415 International Marketing Research, MKTG 436 International Promotion, or overseas experience (e.g., Studies Abroad). | 3 |
| Language 101-102<br>If a student demonstrates language competency and is able to move directly into the 201, 202 language series, credit for 101-102 should be applied for in the Department of Modern Languages and Literatures following successful completion of 201. In this event, two additional courses are recommended to be chosen from the following courses or from courses approved by International Business advisor: LING 305 Introduction to Language Studies; FREN 376 French Culture, GERM/SPAN Language 377 Introduction to German or Spanish Culture and Civilization; FREN/GERM/SPAN Language 303 Advanced Conversation and Composition courses. FREN/GERM 307 or SPAN 305 Language for Business. | 8 |

*— continued —*

### *International Business (continued)*

| | |
|---|---|
| Political science course (300- or 400-level)<br>The course should relate to the language of interest. Choose from POLS 311 Comparative Foreign Policy, POLS 321 Introduction to Comparative Politics, POLS 324 Politics in Russian and Eastern Europe, POLS 328 Politics in Japan, POLS 329 Politics of Industrialized Nations, POLS 333 Comparative Governments and Politics of Developing Nations, POLS 421 International Law and Organization, POLS 429 International Political Economy, with permission of an advisor, international students can substitute a course on U.S. political science | 3 |
| Nonbusiness electives<br>No more than 3 credits may be kinesiology activity courses. Telecourses are excluded. | 1-4 |
| Electives to total 130 credits | 4 |
| Total | 130 |

NOTES: *At least 32 of these business credits must be taken at Boise State University.
**Must be completed with grades of 'C' or higher before taking GENBUS 450.
***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 spreadsheet and word processing skills. Students lacking these skills should take CIS 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:<br>HIST 316 History of East Asia<br>HIST 329 History of South Asia<br>HIST 368 Modern Latin America<br>HIST 423 European Diplomatic History | 3 |
| One of the following political science courses:<br>POLS 321 Introduction to Comparative Politics<br>POLS 329 Politics of Industrialized Nations<br>POLS 333 Comp Government and Politics of Developing Nations | 3 |
| Total | 24 |

# Course Offerings

**See page 53 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).** 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)(S).** 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)(F).** 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 standing or PERM/INST.

**INTBUS 455 SENIOR SEMINAR IN GLOBAL STRATEGY (3-0-3) (F/S).** This capstone course for international business majors will help students integrate material learned in international business, economics, history, and political science courses. The students will apply their knowledge by helping local area firms decide whether and how to be more competitive in a global economy. PREREQ: Limited to international business majors who have completed all core international business courses and GENBUS 450.

**INTBUS 481 INTERNATIONAL INTERNSHIP OR OVERSEAS EXPERIENCE (3-0-3) (F/S).** The course offers students the opportunity to gain international experience through hands-on experience including study abroad or an internship, either with a local firm or with an overseas firm. PREREQ: Approval of international business advisor.

**INTBUS 493 INTERNATIONAL BUSINESS INTERNSHIP (number of credits varies).** Internships with local 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, PERM/INST.

### International Relations — see Department of Political Science

### Japanese — see Department of Modern Languages and Literatures

### Journalism — see Department of Communication

### Latin Language and Literature Minor — see Department of History

### Law, Pre, Advising — see Pre-Law Advising

# Department of Kinesiology

Kinesiology Building, Room 209 Telephone 208 426-4270
http://kinesiology.boisestate.edu/ Fax 208 426-1894
e-mail: cborton@boisestate.edu

*Chair and Professor:* Ross E. Vaughn. *Professors:* Hoeger, Kozar, Petlichkoff, Pfeiffer, Potter. *Associate Professors:* Harris, McChesney, Spear. *Assistant Professors:* Bell, DeBeliso, Gibson, Wallace. *Special Lecturers:* Craner, Hammann, Koto, Mayo,Moore, Pascoe. *Educational Consultant:* Wade.

## 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 has as its major focus, the comprehensive development and promotion of a healthy lifestyle. Through teaching, scholarship and service activities, the department seeks to help other enjoy, improve, and enrich the quality of life in the three domains of learning: psychomotor, cognitive, and affective.

The department strives to: (a) offer comprehensive programs that are sensitive and responsive to contemporary research and provide a solid foundation in all aspects of human performance and wellness; (b) conduct scholarly investigations concerned with components of a healthy life-style that lead to improved instructional methods and strategies; and (c) promote effective working relationships within the university, community, and region to facilitate services, policies, and legislation that support department goals.

## 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 or March 1, depending on when your total credit hours, including current course load, exceeds 57 credits. Forms can be picked up from academic advisors and should be returned to K-209, along with a copy of your transcript.

## Degree Requirements

This major is designed for students interested in teaching public school physical education. Athletic coaching and health education endorsements also are available. Students completing this program are eligible to receive the standard secondary school teaching certificate with an elementary school endorsement issued by the state of Idaho.

**K-12 Physical Education**
**Bachelor of Science**

| Course Number and Title | Credits |
|---|---|
| ENGL 101, 102 English Composition | 6 |
| **Area I — see page 40 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 40 for list of approved courses** | |
| EDUC 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** | |
| BIOL 227 Human Anatomy and Physiology | 4 |
| Area III core course in math | 3-5 |
| Area III core course in any field | 4 |
| EDUC 202 Educational Technology – Classroom Applications | 3 |
| EDUC 301 Teaching: Experience I | 1 |
| EDUC 302 Learning and Instruction | 4 |
| EDUC 401 Professional Year - Teaching Experience II | 2 |
| EDUC 402 Content Literacy for Secondary Students | 3 |
| Teaching Experience III/IV | 16 |
| NOTE: Completion of all requirements for graduation with a secondary education option may require more than 128 credit hours. See "Teacher Education" for more information. | |
| KINES 101 Foundations of Kinesiology | 2 |
| KINES 110 Racquet Sports | 1 |
| KINES 111 Basketball/Volleyball | 1 |
| KINES 112 Fitness Foundations | 1 |
| KINES 113 Golf/Archery/Bowling | 1 |
| KINES 114 Outdoor Adventure Activities | 1 |
| KINES 115 Intramural Organization/Flag Football/Softball | 1 |
| KINES 116 Rhythmic Skills/Dance | 1 |
| KINES 117 Soccer Activities/Educational Gymnastics | 1 |
| KINES 118 Aquatics | 1 |
| KINES 119 Track and Field | 1 |
| KINES 140 Personal Health | 3 |
| KINES 141 Standard First Aid and CPR | 1 |
| KINES 180 Introduction to Coaching | 2 |
| KINES 251 Introduction to Teaching Physical Education | 2 |
| KINES 260 Psychology of Human Movement | 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 Elementary School Physical Education Methods | 3 |
| KINES 365 Social Psychology of Physical Activity | 2 |

*— continued —*

| *K-12 Physical Education (continued)* | |
|---|---|
| KINES 370, 371 Biomechanics and Lab | 3 |
| KINES 375, 376 Human Growth and Motor Learning and Lab | 3 |
| KINES 435 Applied Resistance Training | 1 |
| KINES 451 Secondary School Physical Education Methods | 3 |
| KINES 455 Organization and Administration of Physical Education | 2 |
| KINES 458 Curriculum Design in Physical Education | 2 |
| Electives to total 128 credits | 3-5 |
| Total | 128 |

This option provides an improved understanding of the mechanical principles of human movement in sports and exercise. The program 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 40 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 40 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, 171 Calculus I and Lab | 5 |
| ENGR 130 Problem Solving with Computers **OR** | 2-3 |
| COMPSCI 115 Introduction to C **OR** | |
| COMPSCI 117 Introduction to C++ | |
| 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 Standard First Aid and CPR | 1 |
| KINES 260 Psychology of Human Movement | 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 363 Exercise Psychology | 2 |
| 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 Mechanics, Waves, and Heat and Lab | 5 |
| Sport and fitness activities (KINES and/or KIN-ACT) | 3 |
| *Upper-division electives to total 40 credits | 14 |
| Electives to total 128 credits | 5-6 |
| Total | 128 |

*Recommended electives: ENGR 330, ENGR 331, ENGR 350, MATH 333, MATH 360, ME 486, PHYS 341.

Students in this option receive a strong background in 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 40 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 40 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, 112 College Chemistry | 9 |
| CHEM 317, 319 Organic Chemistry and Lab | 5 |
| 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 Standard First Aid and CPR | 1 |
| KINES 260 Psychology of Human Movement | 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 363 Exercise Psychology | 2 |
| 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 (KINES and/or KIN-ACT) | 3 |
| Upper-division electives to total 40 credits | 2 |
| *Electives to total 128 credits | 2 |
| Total | 128 |

*Recommended electives: BIOL 205, BIOL 300, CHEM 318, CHEM 320, HLTHST 300, PHYS 207, RESPTHER 225, RESPTHER 226, ZOOL 409.

This option 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 40 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 40 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 College 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 Standard First Aid and CPR | 1 |
| KINES 144 Stress Management | 1 |
| KINES 220 Introduction to Athletic Injury | 3 |
| KINES 240 Foundations of Health Promotion | 2 |
| KINES 260 Psychology of Human Movement | 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 335 Strategies for Exercise Leadership | 2 |
| KINES 363 Exercise Psychology | 2 |
| KINES 370, 371 Biomechanics and Lab | 3 |
| KINES 375, 376 Human Growth and Motor Learning and Lab | 3 |
| KINES 430 Physical Activity and Aging | 3 |
| KINES 432 Conditioning Procedures | 3 |
| KINES 434 Laboratory Techniques in Physical Assessment | 1 |
| KINES 436 Exercise Testing and Prescription | 3 |
| KINES 493 Internship | 3 |
| PHYS 111 General Physics | 4 |
| Computer applications course | 3 |
| Sport and fitness activities (KINES and/or KIN-ACT) | 3 |
| Upper-division electives to total 40 credits | 8 |
| Total | 128 |

*Recommended electives: BIOL 300, ECON 202, HLTHST 410, HLTHST 449, HLTHST 480, MKTG 301, MKTG 306, PSYC 313, PSYC 331.

The goal of health promotion is 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 40 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 |

*— continued —*

*Health Promotion (continued)*

| | |
|---|---|
| **Area II — see page 40 for list of approved courses** | |
| PSYC 101 General Psychology | 3 |
| Area II core course in communication | 3 |
| Area II core course in economics | 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 |
| 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:<br>HLTHST 211 Disease Conditions<br>HLTHST 304 Public Health Administration<br>HLTHST 480 Epidemiology | 6 |
| KINES 112 Fitness Foundations | 1 |
| KINES 140 Personal Health | 3 |
| KINES 141 Standard First Aid and CPR or equivalent | 1 |
| KINES 144 Stress Management | 1 |
| KINES 240 Foundations of Health Promotion | 2 |
| KINES 260 Psychology of Human Movement | 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 | 2 |
| KINES 440 Health Promotion | 3 |
| KINES 442 Consumer Health | 2 |
| KINES 493 Internship | 6 |
| MKTG 301 Principles of Marketing | 3 |
| MKTG 306 Marketing Communications | 3 |
| PSYC 295 Statistical Methods | 3 |
| Two of the following:<br>PSYC 261 Human Sexuality<br>PSYC 331 Psychology of Health<br>PSYC 357 Introduction to Counseling Skills | 6 |
| Computer applications course | 3 |
| Electives in sport and fitness activities (KINES or KIN-ACT) | 2 |
| Upper-division electives to total 40 credits | 0-3 |
| *Electives to total 128 credits | 7-10 |
| Total | 128 |

*Recommended electives: BIOL 300, CHEM 102, COMM 221, COMM 390, HIST 365, HLTHST 410, KINES 143, KINES 145, KINES 220, PSYC 309, PSYC 310, PSYC 313, SOC 325.

## BSU Athletic Training Education Program

The BSU Athletic Training Education Program (BSU-ATEP) focuses on the care and prevention of injuries to athletes. The program is accredited by the Commission on Accreditation of Allied Health Education Programs. Completion of this program prepares the graduates to sit for the National Athletic Trainers' Association Board of Certification national certification examination.

Admission to the BSU-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 BSU-Athletic Training Education Program application by the second Monday in April.
3. take the BSU-Athletic Training Education Program admissions examination.
4. complete a 500 word essay describing their motivation for choosing a career in athletic training.
5. complete a pre-admission interview.

The BSU-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 BSU-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 40 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 40 for list of approved courses** | |
| PSYC 101 General Psychology | 3 |
| Area II core course in communication | 3 |
| Area II core course in a third field | 3 |
| Area II core course in any field | 3 |
| **Area III** | |
| BIOL 227, 228 Human Anatomy and Physiology | 8 |
| MATH 143 and MATH 144 or MATH 147 | 5 |
| CHEM 111, 112 College Chemistry | 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 Standard First Aid and CPR | 1 |
| KINES 220 Introduction to Athletic Injuries | 3 |
| KINES 240 Foundations of Health Promotion | 2 |
| KINES 260 Psychology of Human Movement | 2 |
| 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 | 3 |
| KINES 326 Training Room Modalities | 2 |
| KINES 330, 331 Exercise Physiology and Lab | 3 |
| KINES 362 Psychology of Injuries | 1 |
| KINES 370, 371 Biomechanics and Lab | 3 |
| KINES 375, 376 Human Growth and Motor Learning and Lab | 3 |
| 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

| Course Number and Title | Credits |
|---|---|
| KINES 112 Fitness Foundations | 1 |
| KINES 140 Personal Health | 3 |
| KINES 141 Standard First Aid and CPR | 1 |
| KINES 142 First Aid Instructor Training course | 1 |
| KINES 445 Secondary School Health Methods and Administration | 3 |
| HLTHST 207 Nutrition | 3 |
| ZOOL 107 Concepts of Human Anatomy and Physiology **OR** BIOL 227, 228 Human Anatomy and Physiology | 4-8 |
| Two electives selected from:<br>HLTHST 109 Drugs: Use and Abuse<br>KINES 442 Consumer Health<br>PSYC 213 Psychology of Aging<br>PSYC 261 Human Sexuality | 5-6 |
| Total | 21-26 |

The Coaching Endorsement consists of two parts. Students desiring to coach at the elementary school level or as a volunteer in youth sport organizations should complete Part 1, which leads to American Sport Education Program (ASEP) Level I certification. Students desiring to coach sports at the interscholastic level should complete both Part I and Part II.

### Coaching Endorsement

| Course Number and Title | Credits |
|---|---|
| **Part I-Volunteer coaches** | |
| KINES 180 Introduction to Coaching | 2 |
| Complete one of the following:<br>KINES 141 Standard First Aid and CPR<br>KINES 220 Introduction to Athletic Injuries<br>American Red Cross Certification in First Aid and CPR | <br>1<br>3<br>0 |
| One coaching methods course selected from:<br>KINES 280 Coaching Baseball<br>KINES 281 Coaching Basketball<br>KINES 282 Coaching Football<br>KINES 288 Coaching Track and Field<br>KINES 289 Coaching Volleyball | 2 |
| KINES 293 Internship in Coaching Youth Sports (or equivalent experience) | 1 |
| Subtotal | 4-8 |
| **Part II-Interscholastic coaches** | |
| Complete Part I | 4-8 |
| ZOOL 107 or BIOL 227, 228 Human Anatomy and Physiology | 4-8 |
| KINES 360 Psychology of Coaching<br>KINES 432 Conditioning Procedures | 2<br>3 |
| One coaching methods course selected from:<br>KINES 280 Coaching Baseball<br>KINES 281 Coaching Basketball<br>KINES 282 Coaching Football<br>KINES 288 Coaching Track and Field<br>KINES 289 Coaching Volleyball | 2 |
| KINES 493 Internship "Interscholastic Athletics" | 3 |
| Two skills courses that complement coaching methods courses | 1+1 |
| Total | 20-28 |

## Course Offerings

**See page 53 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 110 RACQUET SPORTS (0-3-1)(F/S).** Instruction and practice in racquet sports emphasizing concepts, fundamental skills, rules, strategies, teaching progressions and learning cues. PREREQ: Restricted to Kinesiology majors.

**KINES 111 BASKETBALL/VOLLEYBALL (0-3-1)(F/S).** Instruction and practice in basketball and volleyball activities emphasizing fundamental skills, rules, strategies, teaching progressions and learning cues. 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. PREREQ: Restricted to Kinesiology majors.

**KINES 113 GOLF/ARCHERY/BOWLING (0-3-1)(F/S).** Instruction and practice in golf, archery, and bowling, emphasizing fundamental skills, rules, strategies, teaching progressions and learning cues. Special fee required. PREREQ: Restricted to Kinesiology majors.

**KINES 114 OUTDOOR ADVENTURE ACTIVITIES (0-3-1)(F/S).** Instruction and practice in a variety of wilderness sports and recreation activities, emphasizing safety, fundamental skills, teaching progressions and learning cues. PREREQ: Restricted to Kinesiology majors.

**KINES 115 INTRAMURAL ORGANIZATION/FLAG FOOTBALL/SOFTBALL (0-3-1)(F/S).** Introduction to planning and organizing intramural and recreational activities. Instruction and practice in flag football and softball, emphasizing fundamental skills, rules, strategies, teaching progressions, and learning cues. PREREQ: Restricted to Kinesiology majors.

**KINES 116 RHYTHMIC SKILLS/DANCE (0-3-1)(F/S).** Instruction and practice in rhythmic skills and dance, emphasizing fundamental skills, teaching progressions and learning cues. PREREQ: Restricted to Kinesiology majors.

**KINES 117 SOCCER ACTIVITIES/EDUCATIONAL GYMNASTICS (0-3-1)(F/S).** Instruction and practice in soccer and gymnastic activities, emphasizing fundamental skills, rules, strategies, teaching progressions, and learning cues. 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. PREREQ: Restricted to Kinesiology majors.

**KINES 119 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. 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)(Formerly PE 142).** Instructs students in a variety of wrapping and taping procedures used in the field of athletic training as forms of external support A prerequisite for admission to the Athletic Training Education Program. Special fee required.

**KINES 140 PERSONAL HEALTH (3-0-3)(F/S)(Formerly PE 100).** 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 STANDARD FIRST AID AND CPR (1-1-1)(F/S)(Formerly PE 121).** Instruction in and application of basic skills, utilizing the multi-media approach to first aid and CPR training. Special fee required.

**KINES 142 FIRST AID INSTRUCTOR TRAINER COURSE (1-2-1)(S)(Offered odd-numbered years)(Formerly PE 123).** 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)(Formerly PE 107).** 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. Special Fee: $7.00.

**KINES 220 INTRODUCTION TO ATHLETIC INJURIES (3-0-3)(F/S)(Formerly PE 236).** 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 260 PSYCHOLOGY OF HUMAN MOVEMENT (2-0-2)(F/S).** An introduction to the fundamental concepts and principles of the psychology of human movement. Topics include personality and assessment, motivation, anxiety, arousal and attention, competition and cooperation, group processes, aggression and violence, and psychological growth and development.

**KINES 270 APPLIED ANATOMY (2-0-2)(F/S)(Formerly PE 230).** 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: ZOOL 107 or BIOL 227-228 or concurrent enrollment in BIOL 228. COREQ: KINES 271.

**KINES 271 LABORATORY FOR APPLIED ANATOMY (0-2-1)(F/S)(Formerly PE 231).** The laboratory to accompany KINES 270. Lab fee required. COREQ: KINES 270.

**KINES 280 COACHING BASEBALL (2-0-2)(S)(Alternate years)(Formerly PE 250).** 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)(Formerly PE 251).** 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)(Formerly PE 252).** 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)(Formerly PE 258).** 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)(Formerly PE 259).** 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)(Formerly PE 309).** 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)(Formerly PE 451).** 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)(Formerly PE 411).** 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)(Formerly PE 412).** 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 (3-0-3)(F)(Formerly PE 422).** Instruction in theory and application of basic passive and functional examination of traumatic conditions resulting from sports participation, emphasizing specific examination techniques. PREREQ: Admission to upper-division standing and the Athletic Training Education Program.

**KINES 326 TRAINING ROOM MODALITIES (2-0-2)(F)(Offered even-numbered years)(Formerly PE 403).** Instruction in theory and application of various therapeutic modalities for care and treatment of athletic injuries, emphasizing cryotherapy, thermal therapy, and electrical modalities. PREREQ: Admission to upper-division standing, and the Athletic Training Education Program.

**KINES 330-330G EXERCISE PHYSIOLOGY (2-0-2)(F/S)(Formerly PE 310).** 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 331-331G.

**KINES 331-331G LABORATORY FOR EXERCISE PHYSIOLOGY (0-2-1)(F/S) (Formerly PE 312-312G).** The laboratory to accompany KINES 330-330G. COREQ: KINES 330-330G.

**KINES 335 STRATEGIES FOR EXERCISE LEADERSHIP (1-2-2)(F/S)(Alternate years).** Instruction and participation in the delivery of exercise lessons for groups and individuals including class management, organization, instructional methodology, and evaluation of teaching. 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.

**KINES 342 HEALTH PROMOTION METHODS (3-0-3)(F/S)(Alternate years).** This course will examine effective methods for assessing and planning health promotion programs. Topics will include developing objectives, selecting interventions and presenting health programs. PREREQ: KINES 240 and junior standing.

**KINES 351 ELEMENTARY SCHOOL PHYSICAL EDUCATION METHODS (3-0-3) (F/S)(Formerly PE 361).** Instruction in methods of teaching elementary school physical education emphasizing movement needs, analysis and development of skills, and practical application. PREREQ: Admission to upper-division standing.

**KINES 355 ELEMENTARY SCHOOL HEALTH AND PHYSICAL EDUCATION CURRICULUM AND INSTRUCTION (3-0-3)(F/S)(Formerly PE 362).** 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)(Formerly PE 430).** 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 362 PSYCHOLOGY OF INJURIES (1-0-1)(F/S)(Alternate years).** Issues related to an athlete's ability to cope with injury, including how athletes resist and recover from injury. Includes psychological aspects of how injuries occur, models that describe injury as a process, intervention strategies, and the roles of sport medicine personnel. PREREQ: Admission to upper-division standing.

**KINES 363 EXERCISE PSYCHOLOGY (2-0-2)(F/S).** Psychological processes and behaviors related to exercise participation. Theoretical and applied principles of exercise behaviors such as motivation and motivational strategies, cognitive and behavioral change strategies, leadership and group dynamics, and factors influencing exercise adherence. PREREQ: Admission to upper-division standing.

**KINES 365-365G SOCIAL PSYCHOLOGY OF PHYSICAL ACTIVITY (2-0-2)(F/S) (Formerly PE 401-401G).** Examination of current topics in psycho-social aspects of physical activity including history of sport and competition, establishment of learning/performance environments, moral development, and social context of performance. PREREQ: PSYC 101 and KINES 260, admission to upper-division standing.

**KINES 370-370G BIOMECHANICS (2-0-2)(F/S)(Formerly PE 351-351G).** Anatomical and mechanical considerations applied to human motion in sport and exercise. PREREQ: Admission to upper-division standing. COREQ: KINES 371-KINES 371G.

**KINES 371-371G LABORATORY FOR BIOMECHANICS (0-2-1)(F/S)(Formerly PE 352-352G).** The laboratory to accompany KINES 370-370G. COREQ: KINES 370-370G.

**KINES 375-375G HUMAN GROWTH AND MOTOR LEARNING (2-0-2)(F/S) (Formerly PE 306-306G).** 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 376-376G.

**KINES 376-376G LABORATORY FOR HUMAN GROWTH AND MOTOR LEARNING (0-2-1)(F/S)(Formerly PE 308-308G).** The laboratory to accompany KINES 375-375G. COREQ: KINES 375-375G.

**KINES 421 ATHLETIC TRAINING CLINICAL INSTRUCTION III (0-2-1)(F) (Formerly PE 413).** 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) (Formerly PE 414).** Instruction includes a review of all aspects of Athletic Training that have been covered in the BSU-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)(Offered even-numbered years)(Formerly PE 406).** 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)(Offered odd-numbered years)(Formerly PE 408)**. 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).** An examination of the physiological aspects of aging and the influence of physical activity on the aging process, functional abilities, independence, and quality of life. PREREQ: KINES 330, 331 and KINES 370, 371.

**KINES 432 CONDITIONING PROCEDURES (2-2-3)(F/S)(Formerly PE 313).** Instruction in conditioning procedures with emphasis on program planning, objectives, exercise analysis, and prescription. PREREQ: KINES 330, 331.

**KINES 434 LABORATORY TECHNIQUES IN FITNESS ASSESSMENT (0-2-1) (F/S)(Alternate years).** Instrumentation, calibration, and methodology of laboratory and field tests for assessing energy expenditure, body composition, and pulmonary function, muscular strength, muscular power, and flexibility. PREREQ: KINES 330, 331.

**KINES 435 APPLIED RESISTANCE TRAINING (0-2-1)(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 exercises by body area and specific student teaching involvement. 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 (3-0-3)(F/S)(Formerly PE 417).** A critical examination of health promotion and education policy with an emphasis on planning, implementation and evaluation of health programs for various public sectors. PREREQ: KINES 240 and junior standing.

**KINES 442 CONSUMER HEALTH (2-0-2)(S)(Offered even-numbered years)(Formerly PE 405).** 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: Junior standing.

**KINES 445 SECONDARY SCHOOL HEALTH METHODS AND ADMINISTRATION (3-0-3)(F/S)(Formerly PE 415).** 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)(Formerly PE 304).** 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: Admission to upper-division standing.

**KINES 455 ORGANIZATION AND ADMINISTRATION OF PHYSICAL EDUCATION (2-0-2)(F/S)(Formerly PE 457).** 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 (2-0-2)(F/S) (Formerly PE 300).** 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 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 ACTIVITY

The Kinesiology Activity Program provides for beginning, intermediate and advanced levels of instruction in a variety of activities. **Eight credits of fitness activity courses may be counted as electives toward graduation.** No fitness activity course may be challenged for credit. All fitness activity courses are graded pass/fail; therefore, credits earned count toward graduation but earn no quality points used in calculating the grade point average.

***KIN-ACT 168 Aerobic Activities and KIN-ACT 162 Adapted Physical Education may be repeated for credit.**

Fitness activity course numbers provide the following information:

1. The first digit indicates skill level (I, II, III):
   1) LEVEL I courses are designed for the beginner who has had little or no instruction in the activity.
   2) LEVEL II is for the individual who has command of basic skills and is of intermediate performance level.

3) LEVEL III is for the individual who has command of intermediate skills and is ready for emphasis on advanced game strategies and skills.
2. The second digit indicates the activity classification (1–aquatics, 2–dance, 3–individual sports, 4–martial arts, 5–outdoor pursuits, 6–personal fitness, 7–racquet and court sports, 8–team sports, 9–participation sports).
3. The third digit indicates the specific activity (example: 1–kayaking, 2–skin and scuba diving, etc.)

**Lower Division**

**KIN-ACT 111 KAYAKING (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. (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 119 CYCLING (0-2-1)(F/S).** Learn proper cycling technique, bicycle mechanics, road safety, and tour planning. (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 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. (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. (Pass/Fail).

**KIN-ACT 130 BASIC RIFLE MARKSMANSHIP (0-2-1)(F/S).** A course in fundamental skills of small caliber rifle marksmanship. Sighting procedures, shooting techniques in various positions, and safety are stressed. (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. (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. (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. (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. A '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. (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. (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. (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. (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. (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. (Pass/Fail).

**KIN-ACT 156 TRAP AND SKEET SHOOTING I (0-2-1)(F/S).** A course in fundamental skills of shotgun shooting. Sighting procedures, gun parts, care of equipment, and safety are stressed. Shotgun trap loading is also taught. Students must furnish shotgun, shells, and trap range fees. Special fee required. (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. (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 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. (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. (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.) (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. (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. (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. (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. (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. (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. (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. (Pass/Fail).

**KIN-ACT 190 CLUB SPORTS I (-0-2-1)(F/S).** Instruction and participation in club sports approved by the BSU Student Senate. Club advisor's approval required. (Pass/Fail).

**KIN-ACT 191 VARSITY SPORTS I (0-2-1)(F/S).** Instruction and participation in BSU department of athletics-approved sports. Coach's approval required. (Pass/Fail).

**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. (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. (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. (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. (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. (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. (Pass/Fail). PREREQ: KIN-ACT 135.

**KIN-ACT 243 KARATE II (0-2-1).** Instruction and participation in karate for development of advanced skills and techniques. A 'Gi' is required. (Pass/Fail.) PREREQ: KIN-ACT 143.

**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. (Pass/Fail.) PREREQ: KIN-ACT 144.

**KIN-ACT 265 WEIGHT TRAINING II (0-2-1)(F/S).** Instruction and participation in progressive body-building and conditioning exercise with resistance for development of intermediate skills. (Pass/Fail). PREREQ: KIN-ACT 165.

**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. PREREQ: KIN-ACT 166 or permission of instructor. (Pass/Fail).

**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. (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. (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. (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. (Pass/Fail). PREREQ: KIN-ACT 186.

**KIN-ACT 290 CLUB SPORTS II (0-2-1)(F/S).** Instruction and participation in club sports approved by BSU Student Senate. Club advisor's approval required. (Pass/Fail).

**KIN-ACT 291 VARSITY SPORTS II (0-2-1)(F/S).** Instruction and participation in BSU department of athletics-approved sports. Coach's approval required. (Pass/Fail).

**Upper Division**

**KIN-ACT 313 SWIMMING III (0-2-1)(F/S).** Participation in swimming for development of advanced skills and techniques. Instruction in stroke mechanics, training program design, starts, turns, and survival swimming. (Pass/Fail). PREREQ: KIN-ACT 213.

**KIN-ACT 365 WEIGHT TRAINING III (0-2-1)(F/S).** Instruction and participation in progressive bodybuilding and conditioning exercises with resistance for development of advanced skills and fitness. (Pass/Fail). PREREQ: KIN-ACT 265.

**KIN-ACT 372 RACQUETBALL III (0-2-1)(F/S).** Instruction and participation in racquetball for development of advanced skills and techniques. Emphasis on doubles play and safety. Students furnish racquets and balls. Protective eyewear is required. (Pass/Fail). PREREQ: KIN-ACT 272.

**KIN-ACT 373 TENNIS III (0-2-1).** Instruction and participation in advanced drills, game experience, strategy and study of the USTA rules and code. Students furnish racquets and balls. (Pass/Fail). PREREQ: KIN-ACT 273.

# Legal Assistant Program

Health Science Building, room 219 Telephone 208 426-5244
http://sspa.boisestate.edu/legalasst/index.html
e-mail: lassist@boisestate.edu

*Administrative Director and Associate Professor:* Patt Elison-Bowers.
*Academic Director and Assistant Professor:* Craig Hemmens.

## Program Statement

The legal assistant program is an optional certificate program within the framework of a baccalaureate degree preparation, regardless of the major program designation. However, a student may enroll in the Legal Assistant 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.)

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., LEGAST 301, LEGAST 302, LEGAST 304, LEGAST 305, and in most cases, three hours of LEGAST 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 legal assistant. All law-specialty courses are taught by practicing lawyers who serve as adjunct faculty members. In certain law-specialty courses, qualified legal assistants may assist the lawyers in a team-teaching arrangement; the legal assistant 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

Individuals who are currently employed as legal assistants but do not fall into one of the above categories may apply for enrollment in law-specialty courses on an **audit** basis.

**Legal Assistant Program**

| Course Number and Title | Credits |
|---|---|
| LEGAST 301 Introduction to Law Practice and the Role of the Legal Assistant | 2 |
| LEGAST 302 Legal Ethics and Law Office Procedures | 1 |
| LEGAST 304 Legal Research and Writing | 2 |
| LEGAST 305 Westlaw Advanced Research | 1 |
| Law-specialty courses chosen from: | 18 |
| LEGAST 401 Estates, Wills and Trusts | |
| LEGAST 403 Corporate Law | |
| LEGAST 405 Real Estate and Property Law | |
| LEGAST 407 Bankruptcy | |
| LEGAST 411 Civil Litigation and Procedures | |
| LEGAST 413 Criminal Law Practice | |
| LEGAST 421 Family Law Practice | |
| LEGAST 431 Natural Resource Law | |
| LEGAST 471 Tort Law | |
| LEGAST 493 Paralegal Internship | |
| LEGAST 494 Workshops in Paralegal Studies | |
| LEGAST 497 Special Topics on Emergent Issues in Law Practice and Paralegal Responsibilities | |
| Computer literacy (or evidence of computer literacy) CIS 104, CIS 105, CIS 106 Computer Applications | 3 |

*— continued —*

| *Legal Assistant Program (continued)* | |
|---|---|
| Law-related courses chosen from:<br>CJA 275 Law of Criminal Evidence<br>CJA 276 Law of Arrest, Search and Seizure<br>CJA 381 Judicial Administration and Court Management<br>CJA 426 Criminal Justice Research and Evaluation<br>GENBUS 202 The Legal Environment of Business<br>GENBUS 302 Commercial Law<br>GENBUS 441 Business, Government and Society<br>POLS 351 Constitutional Law<br>POLS 421 International Law<br>POLS 441 Western Political Theory I<br>POLS 467 Administrative Law<br>SOC 370 Sociology of Law | 9 |
| **Communication Skills** (recommended, but not required)<br>*COMM 101 Fundamentals of Speech Communication<br>*COMM 112 Reasoned Discourse<br>ENGL 202 Technical Communication<br>ENGL 402 Advanced Technical Communication<br>*PHIL 201 Introduction to Logic | |
| **Management Techniques and Procedures** (recommended, but not required)<br>ACCT 205 Introduction to Financial Accounting<br>ACCT 206 Introduction to Managerial Accounting<br>GENBUS 101 Introduction to Business<br>GENBUS 360 Business Ethics and Social Responsibility<br>*MATH 130 Finite Mathematics<br>*MATH 160 Survey of Calculus<br>MGMT 301 Leadership Skills<br>MRKTEC 257 Elements of Management<br>POLS or SOC 487 Organizational Theory and Bureau Structure | |
| **Governmental Institutions, Processes and Historical Background** (recommended, but not required)<br>*HIST 101 History of Western Civilization<br>*HIST 102 History of Western Civilization<br>*HIST 111 U. S. History<br>*HIST 112 U. S. History<br>HIST 336 U. S. Constitutional History<br>*POLS 101 American National Government<br>POLS 102 State and Local Government<br>POLS 303 Introduction to Public Administration<br>POLS 312 Legislative Behavior<br>POLS 320 American Policy Process | |
| Total | 36 |

*Satisfies a university core requirement.

# Course Offerings

**See page 53 for a definition of the course-numbering system.**

### LEGAST — 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 LEGAST 301, LEGAST 302, LEGAST 304, and LEGAST 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.

**LEGAST 301 INTRODUCTION TO LAW PRACTICE AND ROLE OF THE LEGAL ASSISTANT (2-0-2)(F/S).** Familiarization of students with specific operations of law firms and legal departments and the role of the legal assistant. 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.

**LEGAST 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: LEGAST 301 or PERM/PROG DIR.

**LEGAST 304 LEGAL RESEARCH AND WRITING (2-0-2)(F/S).** Use of law references to develop research skills for the legal assistant 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: LEGAST 302 or PERM/PROG DIR.

**LEGAST 305 WESTLAW ADVANCE RESEARCH (1-0-1)(F/S).** Development of computerized skills in the use of "Westlaw." PREREQ: LEGAST 304 or PERM/PROG DIR.

**LEGAST 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 legal assistant will be emphasized. PREREQ: LEGAST 305 or PERM/PROG DIR.

**LEGAST 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 legal assistant will be emphasized. PREREQ: LEGAST 305 or PERM/PROG DIR.

**LEGAST 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 legal assistant will be emphasized. PREREQ: LEGAST 305 or PERM/PROG DIR.

**LEGAST 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 legal assistant will be emphasized. PREREQ: LEGAST 305 or PERM/PROG DIR.

**LEGAST 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 legal assistant will be emphasized. PREREQ: LEGAST 305 or PERM/PROG DIR.

**LEGAST 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 legal assistant will be emphasized. PREREQ: LEGAST 305 or PERM/PROG DIR.

**LEGAST 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 legal assistant will be emphasized. PREREQ: LEGAST 305 or PERM/PROG DIR.

**LEGAST 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 legal assistant will be emphasized. PREREQ: LEGAST 305 or PERM/PROG DIR. DIR.

**LEGAST 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 legal assistant will be emphasized. PREREQ: LEGAST 305 or PERM/PROG DIR.

## Linguistics — see Department of English

# Department of Management

Business Building, Room 313 Telephone 208 426-1313
http://mg.boisestate.edu Fax 208 426-1857

*Chair and Associate Professor:* Newell Gough. *Professors:* Bigelow, Bixby, Kaupins, Napier, Wines. *Associate Professors:* Baughn, Buchanan, Glen, Wanek. *Assistant Professor:* Chavez, Krueger, Ward.

## Degrees Offered

- B.B.A., B.A., B.S. in General Business Management
- 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 management and management.

The general business management 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 management 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 and the administration and operation of a company's programs as they apply to employees.

## Degree Requirements

### General Business Management
### Bachelor of Business Administration

| Course Number and Title | Credits |
|---|---|
| ENGL 101, 102 English Composition | 6 |
| **Area I — see page 40 for list of approved courses** | |
| Area I Core courses | 6 |
| **Area II — see page 40 for list of approved courses** | |
| 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 40 for list of approved courses** | |
| Area III core course - (MATH 143 or MATH 147) | 3-5 |
| Area III core course - (MATH 160 or MATH 170,171) | 4-5 |
| 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, geography, history, political science, psychology, social work, sociology, teacher education); **Natural Sciences and Mathematics** (biological sciences, physical sciences, mathematics) No more than 3 credits may be fitness activity courses. Telecourses are excluded. | 17-20 |

*— continued —*

*General Business Management (continued)*

| | |
|---|---|
| *ACCT 205 Introduction to Financial Accounting<br>*ACCT 206 Introduction to Managerial Accounting | 3<br>3 |
| *BUSCOM 328 Business Communications | 3 |
| BUSSTAT 207, 208 Statistical Techniques for Decision Making I & II | 6 |
| *CIS 310 Introduction to Management Information Systems | 3 |
| ECON 303, 305, 321, 322 or 327 | 3 |
| *-**FINAN 303 Principles of Finance<br>*FINAN 410 Working Capital Management | 3<br>3 |
| *GENBUS 202 The Legal Environment of Business<br>*GENBUS 302 Commercial Law<br>*GENBUS 441 Business, Government, and Society<br>*GENBUS 450 Business Policies | 3<br>3<br>3<br>3 |
| *-**MGMT 301 Leadership Skills<br>*MGMT 305 Human Resource Management<br>*MGMT 340 Employee and Labor Relations<br>*MGMT 410 Advanced Management Topics | 3<br>3<br>3<br>3 |
| *-**MKTG 301 Principles of Marketing<br>*MKTG 320 Marketing Management | 3<br>3 |
| *-**OPERMGT 345 Principles of Production Management | 3 |
| ***Electives to total 128 credits | 13 |
| Total | 128 |

NOTES: *At least 32 of these business credits must be taken at Boise State University.
**Must be completed with grades of 'C' or higher before taking GENBUS 450.
***Please refer to the B.B.A., B.A., or B.S. requirements in Chapter 11 for explanation.
Students must complete CIS 104 and CIS 105 or pass the computer placement exam as a prerequisite for BUSSTAT 207 and OPERMGT 345.

### 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 40 for list of approved courses** | |
| Area I core courses | 6 |
| **Area II — see page 40 for list of approved courses** | |
| 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 40 for list of approved courses** | |
| Area III core course - (MATH 143 or MATH 147) | 3-5 |
| Area III core course - (MATH 160 or MATH 170,171) | 4-5 |
| 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, geography, history, political science, psychology, social work, sociology, teacher education); **Natural Sciences and Mathematics** (biological sciences, physical sciences, mathematics) No more than 3 credits may be fitness activity courses. Telecourses are excluded. | 17-20 |
| *ACCT 205 Introduction to Financial Accounting<br>*ACCT 206 Introduction to Managerial Accounting | 3<br>3 |
| *BUSCOM 328 Business Communications | 3 |
| BUSSTAT 207, 208 Statistical Techniques for Decision Making I & II | 6 |
| *CIS 310 Introduction to Management Information Systems | 3 |
| *-**FINAN 303 Principles of Finance | 3 |
| *GENBUS 202 The Legal Environment of Business<br>*GENBUS 441 Business, Government, and Society<br>*GENBUS 450 Business Policy | 3<br>3<br>3 |

*— continued —*

| *Management, Entrepreneurial Option or Human Resource Management Option (continued)* | |
|---|---|
| *-**MGMT 301 Leadership Skills<br>*MGMT 305 Human Resource Management<br>*MGMT 410 Advanced Management Topics | 3<br>3<br>3 |
| *-**MKTG 301 Principles of Marketing | 3 |
| *-**OPERMGT 345 Principles of Production Management | 3 |
| **Entrepreneurial Option** | |
| ECON 303, 305, 321, 322, or 327 Economics course | 3 |
| ENGL 202 Technical Communication | 3 |
| *FINAN 304 Spreadsheets and Databases<br>*FINAN 410 Working Capital Management | 1<br>3 |
| *MGMT 320 Entrepreneurial Skills<br>*MGMT 418 Managing an Emerging Business<br>*MGMT 419 New Venture Creation | 3<br>3<br>3 |
| *MKTG 320 Marketing Management | 3 |
| ***Electives to total 128 credits | 6 |
| Total | 128 |
| **Human Resource Management Option** | |
| ECON 303, 305, or 327 Economics course | 3 |
| *MGMT 330 Human Resource Law<br>*MGMT 340 Employee and Labor Relations<br>*MGMT 406 Compensation and Benefits | 3<br>3<br>3 |
| One of the following:<br>COMM 255 Communication Training and Development<br>COMM 307 Interviewing<br>COMM 390/SOC 390 Conflict Management<br>*MGMT 408 Employee Staffing and Training<br>*MGMT 415 Collective Bargaining | 3 |
| ***Electives to total 128 credits | 13 |
| Total | 128 |

NOTES: *At least 32 of these business credits must be taken at Boise State University.
**Must be completed with grades of 'C' or higher before taking GENBUS 450.
***Please refer to the B.B.A., B.A., or B.S. requirements in Chapter 11 for explanation.
Students must complete CIS 104 and CIS 105 or pass the computer placement exam as a prerequisite for BUSSTAT 207 and OPERMGT 345.

Students pursing a business degree may earn a 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<br>MGMT 320 Entrepreneurial Skills<br>MGMT 418 Managing an Emerging Business<br>MGMT 419 New Venture Creation | 3<br>3<br>3<br>3 |
| 2 courses chosen from:<br>CIS 497 Special Topics: Creative Problem Solving<br>ECON 321 Regional Economics<br>FINAN 410 Working Capital Management<br>INTBUS 433 Importing and Exporting Procedures<br>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<br>MGMT 305 Human Resource Management<br>MGMT 330 Human Resource Law<br>MGMT 340 Employee and Labor Relations<br>MGMT 406 Compensation and Benefits | 3<br>3<br>3<br>3<br>3 |
| One course chosen from:<br>COMM 255 Communication Training and Development<br>COMM 307 Interviewing<br>COMM 390/SOC 390 Conflict Management<br>GENBUS 441 Business, Government, and Society | 3 |
| Total | 18 |

## Course Offerings

**See page 53 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).** 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).** Intensive study of and 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, OPERMGT 345 with grades of C or higher.

**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.

**MGMT 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 management practices. Legal, motivational, and international issues are included. PREREQ: ENGL 102 and GENBUS 202.

**MGMT 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 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 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 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 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 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 408 EMPLOYEE STAFFING AND TRAINING (3-0-3)(F).** 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.

**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 COLLECTIVE BARGAINING (3-0-3)** Materials and resources utilized in preparation for negotiations. Bargaining strategies and tactics are examined. Various methods of conflict resolution are explored, with an emphasis on the mediation and arbitration process. Special attention is devoted to public sector bargaining. Course will be offered based on student demand and staffing availability. PREREQ: MGMT 330, 340, or PERM/INST.

**MGMT 418 MANAGING AN EMERGING BUSINESS (3-0-3)(F).** 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: FINAN 303, MGMT 301, MGMT 320, MKTG 301.

**MGMT 419 NEW VENTURE CREATION (3-0-3)(S).** This capstone course for entrepreneurship students integrates material from earlier courses. Each student will develop a comprehensive business plan. PREREQ: CIS 310, FINAN 410, MGMT 418, and OPERMGT 345.

**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.

# Department of Marketing and Finance

Business Building, Room 306 Telephone 208 426-3356
http://mkfi.boisestate.edu Fax 208 426-5384
e-mail: mkfi-info@boisestate.edu

*Chair and Associate Professor:* Kirk Smith. *Professors:* Barney, Frankle, Limaye, Lincoln, McCain, Ray, Schooley, White. *Associate Professors:* Maher, Petkus. *Assistant Professor:* Harvey, MacDonald, Pompian.

## Degrees Offered

- 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 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.

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 both 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 emphasis 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 40 for list of approved courses** | |
| Area I core courses | 6 |
| **Area II — see page 40 for list of approved courses** | |
| 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 40 for list of approved courses** | |
| Area III core course - (MATH 143 or MATH 147) | 3-5 |
| Area III core course - (MATH 160 or MATH 170,171) | 4-5 |
| Area III core course in a lab science | 4 |

*— continued —*

| *Finance (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, geography, history, political science, psychology, social work, sociology, teacher education); **Natural Sciences and Mathematics** (biological sciences, physical sciences, mathematics)<br>No more than 3 credits may be fitness activity courses.<br>Telecourses are excluded. | 17-20 |
| *ACCT 205 Introduction to Financial Accounting<br>*ACCT 206 Introduction to Managerial Accounting<br>*ACCT 304 Intermediate Accounting<br>*ACCT 350 Analysis, Design, and Audit of Accounting Information Systems | 3<br>3<br>3<br>3 |
| *BUSCOM 328 Business Communication | 3 |
| BUSSTAT 207, 208 Statistical Techniques for Decision Making I & II | 6 |
| ECON 303 Intermediate Microeconomics | 3 |
| *-**FINAN 303 Principles of Finance<br>*FINAN 304 Spreadsheets and Data Bases<br>*FINAN 410 Working Capital Management<br>*FINAN 411 Capital Budgeting and Planning<br>*FINAN 420 Management of Financial Institutions<br>*FINAN 421 Decision Processes in Banking<br>*FINAN 450 Investment Management<br>*FINAN 451 Frontiers in Financial Markets | 3<br>1<br>3<br>3<br>3<br>3<br>3<br>3 |
| *GENBUS 202 The Legal Environment of Business<br>*GENBUS 450 Business Policies | 3<br>3 |
| *-**MGMT 301 Leadership Skills | 3 |
| *-**MKTG 301 Principles of Marketing | 3 |
| *-**OPERMGT 345 Principles of Production Management | 3 |
| *Major elective chosen from upper-division finance, accounting, or economics.<br>If the elective is chosen from upper-division accounting or economics, faculty advisor approval 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 | 7-9 |
| Total | 128 |

NOTES: *At least 32 of these business credits must be taken at Boise State University.
**Must be completed with grades of 'C' or higher before taking GENBUS 450.
***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 CIS 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<br>FINAN 410 Working Capital Management<br>FINAN 411 Capital Budgeting and Planning<br>FINAN 450 Investment Management | 3<br>3<br>3<br>3 |
| Any two of the following:<br>FINAN 371 Appraisal of Real Estate<br>FINAN 372 Real Estate Investment and Taxation<br>FINAN 373 Real Estate Finance<br>FINAN 420 Management of Financial Institutions<br>FINAN 421 Decision Processes in Banking<br>FINAN 430 International Finance<br>FINAN 451 Frontiers in Financial Markets<br>FINAN 471 Appraisal of Income Properties | 6 |
| Total | 18 |

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 pragmatic 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 industrial sales, advertising, marketing research, and other marketing positions.

## Marketing
## Bachelor of Business Administration

| Course Number and Title | Credits |
|---|---|
| ENGL 101, 102 English Composition | 6 |
| **Area I — see page 40 for list of approved courses** | |
| Area I core courses | 6 |
| **Area II — see page 40 for list of approved courses** | |
| COMM 101 Fundamentals of Speech Communication<br>ECON 201 Principles of Macroeconomics<br>ECON 202 Principles of Microeconomics<br>PSYC 101 General Psychology | 3<br>3<br>3<br>3 |
| **Area III — see page 40 for list of approved courses** | |
| Area III core course - (MATH 143 or MATH 147)<br>Area III core course - (MATH 160 or MATH 170,171)<br>Area III core course in a lab science | 3-5<br>4-5<br>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, geography, history, political science, psychology, social work, sociology, teacher education); **Natural Sciences and Mathematics** (biological sciences, physical sciences, mathematics)<br>No more than 3 credits may be fitness activity courses.<br>Telecourses are excluded. | 17-20 |
| *ACCT 205 Introduction to Financial Accounting<br>*ACCT 206 Introduction to Managerial Accounting | 3<br>3 |
| *BUSCOM 328 Business Communication | 3 |
| BUSSTAT 207, 208 Statistical Techniques for Decision Making I & II | 6 |
| *CIS 310 Introduction to Management Information Systems | 3 |
| ECON 303 Intermediate Microeconomics | 3 |
| *-**FINAN 303 Principles of Finance | 3 |
| *GENBUS 202 The Legal Environment of Business<br>*GENBUS 450 Business Policies | 3<br>3 |
| *-**MGMT 301 Leadership Skills | 3 |
| *-**MKTG 301 Principles of Marketing<br>*MKTG 306 Marketing Communications<br>*MKTG 307 Customer Behavior<br>*MKTG 320 Marketing Management<br>*MKTG 321 Professional Selling<br>*MKTG 415 International Marketing Research<br>*-**OPERMGT 345 Principles of Production Management | 3<br>3<br>3<br>3<br>3<br>3<br>3 |
| *Marketing electives<br>Marketing majors must take 12 hours of upper-division marketing electives to complete a marketing degree. | 12 |
| ***Electives to total 128 credits | 7 |
| Total | 128 |

NOTES: *At least 32 of these business credits must be taken at Boise State University.
**Must be completed with grades of 'C' or higher before taking GENBUS 450.
***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 CIS 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 |
|---|---|
| MKTG 301 Principles of Marketing | 3 |
| MKTG 306 Marketing Communications | 3 |
| MKTG 307 Customer Behavior | 3 |
| MKTG 320 Marketing Management | 3 |
| MKTG 321 Professional Selling | 3 |
| Any other upper-division marketing course | 3 |
| Total | 18 |

# 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 53 for a definition of the course-numbering system.**

**BUSCOM — BUSINESS COMMUNICATION**

**Upper Division**

**BUSCOM 328 BUSINESS COMMUNICATION (3-0-3)(F/S).** The effectiveness and correctness of writing and the psychology of letter writing will be stressed through the preparation of a variety of business messages. Specific memorandum and letter problems will be used in conjunction with various cases to provide students with realistic opportunities to develop writing skills necessary for entry-level performance. PREREQ: ENGL 102.

**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 328.

**FINAN — FINANCE**

**Lower Division**

**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 220 LAW OF REAL ESTATE (3-0-3)(F/S).** Designed to review the laws establishing and governing basic rights of ownership and use of real estate. The concepts of the modern real estate transaction, the real estate brokerage business, and the various legal relationships involved are discussed. PREREQ: FINAN 201 and GENBUS 202.

**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 DATA BASES (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. PREREQ or COREQ: FINAN 303.

**FINAN 371 APPRAISAL OF REAL ESTATE (3-0-3)(F/S).** Modern real estate appraising concepts and the technical skills employed in their application to residential property. PREREQ: FINAN 201 or PERM/INST.

**FINAN 372 REAL ESTATE INVESTMENT AND TAXATION (3-0-3)(F/S).** Real estate from the investor's (owner's) point of view with special attention to the tax aspects, including risk and return analysis, property leverage, discounted cash flow, tax consequence of sales, exchanging, multiple exchanges, and computerized investment analysis. PREREQ: FINAN 201, FINAN 220 and FINAN 303 or PERM/INST.

**FINAN 373 REAL ESTATE FINANCE (3-0-3)(F/S).** Financial analysis and examination of the intricacies of the real estate mortgage markets, source of mortgage funds, federal government and mortgage markets, lending decisions, management of loan portfolios, leasing, construction financing, creative financing, and financing of specific types of real property. PREREQ: FINAN 201 and FINAN 303 or PERM/INST.

**FINAN 410-410G WORKING CAPITAL MANAGEMENT (3-0-3)(S).** This course 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: FINAN 303 and BUSSTAT 208.

**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 421-421G DECISION PROCESSES IN BANKING (3-0-3)(S).** The topics included in this course are those which involve the specific decision-making areas faced by participants in the banking industry. These decision areas include the management of liquidity reserves and securities portfolios; consumer, business and real estate loans; liability control; asset-liability management; trust banking; and international banking. 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 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: FINAN 303 and BUSSTAT 208.

**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: FINAN 303 and BUSSTAT 208.

**FINAN 471 APPRAISAL OF INCOME PROPERTIES (3-0-3)(F/S).** Following a review of the steps leading to the estimation of net income, all prevalent methods and techniques of converting net income into an indication of value are fully covered. Direct capitalization, the residual techniques, and capitalization roles are analyzed. PREREQ: FINAN 303, FINAN 371 or 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 201 CURRENT ISSUES IN MARKETING AND POPULAR CULTURE (3-0-3)(F).** This course offers all majors an introduction to the basic principles of marketing in the context of popular culture. Students learn to analyze popular culture elements (television, movies, sports, advertising, magazines, the arts, etc.) as "products" that are "consumed" by audiences. Students learn the fundamentals of target marketing, segmentation, product positioning, competitive advantage, pricing, advertising and promotion, and market research. A major course project is required.

**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.

**MKTG 306 MARKETING COMMUNICATIONS (3-0-3)(F/S).** A comprehensive approach to creating and implementing marketing communications activities, including advertising, sales promotions, event sponsorships, direct marketing, public relations, and business/store image. Students complete a course project involving development of an actual marketing communications plan for a local business. Relevant social, cultural, and ethical issues also are emphasized. PREREQ: MKTG 301.

**MKTG 307 CUSTOMER BEHAVIOR (3-0-3)(F/S).** Concepts in and analysis of consumer and group satisfaction attributes, methods of measurement, and processes to guide decisions using this knowledge. PREREQ: MKTG 301.

**MKTG 320 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 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 401 ADVERTISING RESEARCH AND STRATEGY (3-0-3)(S).** This course is designed to promote strategic thinking and research skills, as well as some hands-on experience that will prepare students for work in the field of marketing communications. Students complete two major projects: (1) research and strategy, and (2) advertising and promotional consulting for nonprofit organizations. PREREQ: MKTG 306 or PERM/INST.

**MKTG 415-415G INTERNATIONAL MARKETING RESEARCH (3-0-3)(F/S).** Theory and the use of research for marketing decisions faced by global managers. Emphasizes planning, designing, and implementing research activities within a cross-cultural context. PREREQ: MKTG 301 and BUSSTAT 208.

**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 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 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: MKTG 320.

**MKTG 430 INTERNATIONAL MARKETING (3-0-3)(F/S).** An analysis of the creation, planning, and implementation of marketing strategies that cross national and cultural borders. PREREQ: MKTG 301.

**MKTG 436 INTERNATIONAL PROMOTION (3-0-3)(F).** A comprehensive approach to creating and implementing promotional activities within a cross-cultural environment. All aspects of the promotional mix are discussed, such as personal selling, advertising, sales promotion, and public relations. Cultural sensitivity and ethical considerations are stressed. PREREQ: MKTG 430.

**MKTG 437 INTERNATIONAL CHANNELS OF DISTRIBUTION (3-0-3)(S).** Discussion of the behavioral processes which affect international channels. Emphasizes the design of international channels and how to motivate channel members from various cultural backgrounds. Physical distribution, especially that pertaining to just-in-time delivery systems, is analyzed. PREREQ: MKTG 430.

**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 493 INTERNSHIP (number of credits varies).** Internship credits are earned in supervised field work specifically related to a student's major. To enroll in 493 a student must have attained a cumulative grade-point average of 2.00 or higher. No more than 12 internship credits may be used to meet degree requirements or university graduation requirements. PREREQ: 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.

## Mass Communication/Journalism — see Department of Communication

# Department of Mathematics

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 Professor:* Alan Hausrath. *Professors:* Anderson, Bartoszynski, Eastman, Kerr, Lamet, Scheepers, Sulanke, Ward. *Associate Professors:* Ayers, Bullock, Feldman, Grantham, Holmes, Kania-Bartoszynska, Kenny, Smith, Walen. *Assistant Professors:* Brill, Garner, Kaiser, Kinzel, Mead, Moore, Venema.

## Degrees Offered

- B.A., B.S., and Minor in Mathematics
- B.A. and B.S. in Mathematics, Secondary Education Option
- Minor in Applied Mathematics
- M.S. in Education, Mathematics Emphasis (See the *BSU Graduate Catalog*.)

## Department Statement

Mathematics is concerned with abstraction, precision, patterns, and problem-solving and is an extremely theoretical discipline with a remarkably wide array of applications. Mathematicians are concerned with aesthetics and elegance, but their discoveries sometimes prove surprisingly practical.

The mathematics, secondary education option 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.

The mathematics major is a more flexible degree; it requires a certain amount of breadth in mathematical preparation but allows a student to choose which area or areas of mathematics to study in more depth.

## Degree Requirements

**Mathematics**
**Bachelor of Arts or Bachelor of Science**

| Course Number and Title | Credits |
|---|---|
| ENGL 101, 102 English Composition | 6 |
| **Area I — see page 40 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 40 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 — see page 40 for list of approved courses** | |
| MATH 170, 171 Calculus I and Lab | 5 |
| At least 8 credits chosen from the following: BIOL 191, BIOL 192, CHEM 111, 112, GEOL 101, PHYS 211, 211L, 212, 212L, | 8-10 |
| One of the following: COMPSCI 115 Introduction to C; COMPSCI 117 Introduction to C++; 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 |

*— continued —*

| *Mathematics (continued)* | |
|---|---|
| MATH 361 Probability and Statistics I<br>MATH 488 Senior Outcome Assessment | 4<br>0 |
| 5 of the following, with 2 at the 400-level<br>MATH 305 Abstract Algebra I<br>MATH 306 Number Theory<br>MATH 307 Cryptology I<br>MATH 308 Cryptology II<br>MATH 311 Foundations of Geometry<br>MATH 326 Complex Analysis<br>MATH 333 Differential Equations with Matrix Theory<br>MATH 387 Discrete and Foundational Mathematics II<br>MATH 405 Abstract Algebra II<br>MATH 411 Introduction to Topology<br>MATH 414 Advanced Calculus<br>MATH 436 Partial Differential Equations<br>MATH 456 Linear Programming<br>MATH 462 Probability and Statistics II<br>MATH 465 Numerical Analysis | 15-20 |
| Upper-division electives to total 40 credits | 9-14 |
| Electives to total 128 credits | 21-36 |
| Total | 128 |

## 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 40 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<br>(B.A. must complete 3 credits of Area I core literature) | 3 |
| **Area II — see page 40 for list of approved courses** | |
| EDUC 201 Foundations of Education | 3 |
| Area II core course in second field | 3 |
| Area II core course in a third field | 3 |
| Area II core course in any field<br>(B.A. must complete 3 credits of Area II core history) | 3 |
| **Area III — see page 40 for list of approved courses** | |
| MATH 170, 171 Calculus I and Lab | 5 |
| MATH 175 Calculus II | 4 |
| Area III core course in a lab science | 4 |
| One of the following:<br>COMPSCI 115 Introduction to C<br>COMPSCI 117 Introduction to C++<br>COMPSCI 125 Introduction to Computer Science I | 2-5 |
| EDUC 202 Educational Technology – Classroom Applications | 3 |
| EDUC 301 Teaching: Experience I | 1 |
| EDUC 302 Learning and Instruction | 4 |
| EDUC 350 Teaching Students with Exceptional Needs at the Secondary Level | 3 |
| EDUC 401 Professional Year - Teaching Experience II | 2 |
| EDUC 402 Content Literacy for Secondary Students | 3 |
| Teaching Experience III/IV | 16 |
| NOTE: Completion of all requirements for graduation with a secondary education option may require more than 128 credit hours. See "Teacher Education" for more information. | |
| MATH 187 Discrete and Foundational Mathematics I | 4 |
| MATH 301 Linear Algebra | 4 |
| MATH 311 Foundations of Geometry | 3 |
| MATH 314 Foundations of Analysis | 3 |
| MATH 361 Probability and Statistics I | 4 |
| MATH 464 Mathematical Modeling | 3 |
| MATH 488 Senior Outcome Assessment | 0 |
| MATH 490 Mathematics in Secondary Schools | 3 |

*— continued —*

| *Mathematics, Secondary Education (continued)* | |
|---|---|
| MATH 305 Abstract Algebra I **OR**<br>MATH 306 Number Theory | 3 |
| Either 9 additional credits in Mathematics for a total of 45, or an approved minor certification area outside Mathematics. (See "Teacher Education" in this catalog). | 9-25 |
| Electives to total 128 credits | 0-21 |
| Total | 128 |

## Mathematics Minor

| Course Number and Title | Credits |
|---|---|
| MATH 170, 171 Calculus I and Lab<br>MATH 175 Calculus II<br>MATH 187 Discrete and Foundational Mathematics I | 5<br>4<br>4 |
| Upper-division mathematics (MATH prefix except for MATH 490 above), including at least one of the following:<br>MATH 305 Abstract Algebra I<br>MATH 306 Number Theory<br>MATH 311 Foundations of Geometry<br>MATH 314 Foundations of Analysis | 9 |
| Total | 22 |

## Applied Mathematics Minor

| Course Number and Title | Credits |
|---|---|
| MATH 170, 171 Calculus I and Lab<br>MATH 175 Calculus II<br>MATH 275 Multivariable and Vector Calculus | 5<br>4<br>4 |
| Upper-division mathematics chosen from the following:<br>MATH 301 Linear Algebra<br>MATH 326 Complex Analysis<br>MATH 333 Differential Equations with Matrix Theory<br>MATH 361 Probability and Statistics I<br>MATH 436 Partial Differential Equations<br>MATH 456 Linear Programming<br>MATH 462 Probability and Statistics II<br>MATH 464 Mathematical Modeling<br>MATH 465 Numerical Analysis | 9-12 |
| Total | 22-25 |

## Mathematics Minor Teaching Endorsement

| Course Number and Title | Credits |
|---|---|
| One of the following:<br>COMPSCI 115 Introduction to C<br>COMPSCI 117 Introduction to C++<br>COMPSCI 125 Introduction to Computer Science I | 2-5 |
| MATH 170, 171 Calculus I and Lab<br>MATH 175 Calculus II<br>MATH 187 Discrete and Foundational Mathematics I<br>MATH 490 Mathematics in Secondary Schools | 5<br>4<br>4<br>3 |
| At least one of the following:<br>MATH 301 Linear Algebra<br>MATH 305 Abstract Algebra I<br>MATH 311 Foundations of Geometry<br>MATH 361 Probability and Statistics I | 3-4 |
| Total | 24-29 |

# Course Offerings

**See page 53 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 ARITHMETIC REVIEW (3-0-0)(F,S).** A review course for those who have forgotten how to add, subtract, multiply and divide using whole numbers, fractions, decimals, percents and signed numbers. Applications include measures of weight, area, and volume.

**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 MATHEMATICS AS A LIBERAL ART (4-0-4)(F,S)(Area III)(Formerly MATH 125 and MATH 100).** A survey of selected mathematical topics from areas such as logic, number theory, probability, and geometry. 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)(Formerly MATH 105).** 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 after any of 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)(Formerly MATH 111).** 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 (3-2-4)(F,S)(Formerly MATH 103).** The study of number systems from whole numbers through the reals: numeration, number operations, algorithms, and properties. The course includes a laboratory component which makes use of physical models appropriate to the content of the course. 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)(Formerly MATH 204)]. D**efinitions 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 computation of antiderivatives. Intended for students in engineering, mathematics, and the sciences. Includes use of mathematical software such as Maple or Mathematica, which is introduced in the accompanying lab, MATH 171. PREREQ: MATH 143 and MATH 144, or MATH 147, or satisfactory placement score. COREQ: MATH 171.

**MATH 171 CALCULUS I COMPUTER LABORATORY (0-1-1)(Area III)(Formerly MATH 204).** Introduction to a general-purpose mathematical software system such as Maple or Mathematica which provides symbolic, numerical and graphical capabilities; emphasis on the use of such a system in understanding, visualizing, and applying the ideas of calculus. Students are expected to spend additional lab time during open lab hours. COREQ: MATH 170, or prior completion of Calculus I elsewhere.

**MATH 175 CALCULUS II (4-0-4)(Area III)(Formerly MATH 205).** 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 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 (3-2-4)(F,S)(Area III)(Formerly MATH 104).** Probability, statistics, geometric concepts and principles, measurement. The course includes a laboratory. PREREQ: MATH 157.

**MATH 272 MULTIVARIABLE CALCULUS (2-1-2).** Vector algebra and geometry, functions of several variables, partial and directional derivatives, gradient, chain rule, optimization, multiple and iterated integrals. Laboratory component emphasizes use of software such as Maple or Mathematica for visualization, exploration, and solution of "real-world" problems. Generally offered as the first nine weeks of MATH 275; cannot be taken for credit after MATH 275. PREREQ: MATH 175.

**MATH 275 MULTIVARIABLE AND VECTOR CALCULUS (3-2-4).** 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. Laboratory component emphasizes use of software such as Maple or Mathematica for visualization, exploration, and solution of "real-wold" problems. Carries only 2 credits if taken after MATH 272. PREREQ: MATH 175.

**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. Crosslisted with COMPSCI 367 and COMPSCI 567; credit may be received for only one of these three courses. PREREQ: MATH 170, MATH 171, 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. Crosslisted with MATH 308 and COMPSCI 368/568; credit may be received for only one of these three courses. PREREQ: MATH 170, MATH 171, 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).** The real number system, completeness and compactness, sequences, continuity, foundations of the calculus. PREREQ: MATH 175 and MATH 187.

**MATH 326 COMPLEX ANALYSIS (3-0-3)(S)(Offered on demand even-numbered years).** Complex numbers, functions of a complex variable, analytic functions, infinite series, integration, the residue theorem and conformal mapping. PREREQ: MATH 275.

**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 272 or 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).** 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 II (4-0-4)(F)(Offered on demand odd-numbered years).** Sylow theorems, solvable groups, rings and ideals, rings of polynomials, factorization, fields and extensions, Galois theory. PREREQ: MATH 301 and MATH 305.

**MATH 411 INTRODUCTION TO TOPOLOGY (3-0-3)(S)(Offered on demand even-numbered years).** Sets, metric spaces, topological spaces, continuous mappings, connectedness, and compactness. PREREQ: MATH 314.

**MATH 414 ADVANCED CALCULUS (4-0-4)(S)(Offered on demand odd-numbered years).** Infinite series, sequences and series of functions, uniform convergence, theory of integration (Riemann and Stieltjes), further topics as time permits. PREREQ: MATH 275, MATH 301, MATH 314.

**MATH 436 PARTIAL DIFFERENTIAL EQUATIONS (3-0-3)(F)(Offered on demand even-numbered 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 456-456G LINEAR PROGRAMMING (4-0-4)(F)(Offered on demand even-numbered years).** Simplex algorithm, two-phase method, simplex algorithm for problems with bounded variables, duality theory, post-optimality analysis, network simplex method, and the transportation and assignment problems. PREREQ: MATH 301.

**MATH 462 PROBABILITY AND STATISTICS II (4-0-4)(F)(Offered on demand odd-numbered years).** A review of the concept of probability space and random variable; expectation and moment-generating functions leading to the central limit theorem: multiple factor analysis of variance; multiple linear regression; nonparametric tests. PREREQ: MATH 301, MATH 361, and either MATH 272 or 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 (4-0-4)(S)(Offered on demand odd-numbered years).** The application of numerical methods to the interpretation and analysis of data, solution of equations, general iterative methods, approximation of functions, and error analysis. PREREQ: MATH 301 or MATH 333 or PERM/INST.

**MATH 488 SENIOR OUTCOME ASSESSMENT (0-0-0)(F,S).** Required to graduate. Senior students will take an outcome assessment examination. Mathematics, Secondary Education students may be permitted to submit a portfolio in place of the examination. Mathematics, Secondary Education students must take MATH 488 before their final student-teaching semester. (Pass/Fail). PREREQ: Senior standing.

**MATH 490-490G MATHEMATICS IN SECONDARY SCHOOLS (3-0-3)(F).** Objectives, content, and methods of secondary school mathematics programs. PREREQ: Six hours of mathematics completed at or above the 300-level.

# Department of Mechanical Engineering

Engineering and Technology Building, Room 240 Telephone 208 426-4078
http://coen-nt1.boisestate.edu/coen/ Fax 208 426-4800

*Chair and Professor:* John Gardner. *Professors:* Dawson, Eggert, Guarino, Parks, Russell. *Associate Professors*: Ferguson, Tennyson. *Assistant Professors*: Bunnell, Moll.

## Degrees Offered

- Bachelor of Science in Mechanical Engineering (B.S.M.E)
- Master of Science in Engineering (M.S.E.) (See the *BSU Graduate Catalog*)

## Department Statement

The mechanical engineering program prepares students for the rewards and challenges of careers in research, design, manufacturing, service, and technical marketing of mechanical components, assemblies, processes and systems. Examples include: gears, power transmissions, turbomachinery and HVAC 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, thermal systems, vibrations, controls, HVAC design, materials, materials selection and computer aided design. Graduates are well prepared to enter the workplace or to further their education in graduate school.

The department sponsors student chapters of the American Society of Mechanical Engineers (ASME) and the American Society of Heating of Refrigerating and Air-Conditioning Engineers (ASHRAE).

## 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 40 for list of approved courses** | |
| Area I core course in one field | 3 |
| Area I core course in a second field | 3 |
| ***Area II — see page 40 for list of approved courses** | |
| COMM 101 Fundamentals of Speech Communication | 3 |
| Area II core course in a second field | 3 |
| ***Area I-II Depth Elective** | |
| Area I core course in a third field **AND** - an elective depth course** chosen from anthropology, communication, economics, geography, history, political science, psychology, or sociology which either has an Area II core course as a prerequisite or is upper-division **OR** Area II core course in a third field **AND** an elective depth course** chosen from art, literature, humanities, music, philosophy, theatre arts, or a foreign language other than English or the student's native language which either has an Area I core course as a prerequisite or is upper-division. | 6 |

*— continued —*

| *Mechanical Engineering (continued)* | |
|---|---|
| **Area III** | |
| Area III requirements are automatically met by specific courses included in the major requirements below. | |
| CHEM 111 College Chemistry | 4 |
| ENGL 202 Technical Communication | 3 |
| ENGR 105 Engineering Graphics | 2 |
| ENGR 120 Introduction to Engineering | 3 |
| ENGR 130 Problem Solving with Computers | 2 |
| ENGR 210 Engineering Statics | 3 |
| ENGR 220 Engineering Dynamics | 3 |
| ENGR 240 Introduction to Electric Circuits | 3 |
| ENGR 320 Thermodynamics I | 3 |
| ENGR 330, 331 Fluid Mechanics and Lab | 4 |
| ENGR 350 Engineering Mechanics of Materials | 3 |
| ENGR 399 Engineering Seminar | 1 |
| MATH 170-171, 175 Calculus I and Lab and Calculus II | 9 |
| MATH 275 Multivariable and Vector Calculus | 4 |
| MATH 333 Differential Equations with Matrix Theory | 4 |
| MATH 360 Engineering Statistics | 3 |
| ME 240, 241 Engineering Materials and Lab | 4 |
| 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 480 Senior Design Project | 4 |
| PHYS 211, 211L Mechanics, Waves, and Heat and Lab | 5 |
| PHYS 212, 212L Electricity, Magnetism, and Optics and Lab | 5 |
| *Mechanical Engineering Applied Thermodynamics elective (ME 325 or ME 420 or ME 345) | 3 |
| *Mechanical Engineering Design elective | 3 |
| *Mechanical Engineering Technical electives | 3 |
| *Technical electives | 3 |
| Total | 131 |

NOTE: *All university core courses and technical and design electives must be approved by the student's advisor. Technical electives are any ME, CE, EE, 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 Mechanical Engineering Department.
**Courses that instill cultural values are acceptable while routine exercises of personal craft are not. Students wanting to use ART 290 as an indepth Art course must take an Area I core Art course as a prerequisite to ART 290.

# Course Offerings

**See page 53 for a definition of the course-numbering system.**

**ENGR — ENGINEERING SCIENCE**

**See page 97 for the listing of ENGR courses.**

**ME — MECHANICAL ENGINEERING**

**Lower Division**

**ME 240 ENGINEERING MATERIALS (3-0-3)(F/S).** Chemical, metallurgical, and other principles that affect the physical properties and selection of engineering materials. PREREQ: CHEM 111, ENGL 102, ENGR 130, and PHYS 211. COREQ: ME 241.

**ME 241 ENGINEERING MATERIALS LAB (0-3-1)(F/S).** Testing of materials and structures, data acquisition and analysis. COREQ: ME 240.

**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. Shop experience in manual and automated welding and machining processes. Concepts and methodologies reinforced through design projects. PREREQ: ENGR 105, ENGR 120, PHYS 211, and structured programming.

**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 psychrometric principles. Calculation of heating and cooling loads based on thermal comfort and design of processes and equipment that maintain desired indoor air quality. PREREQ: ENGR 320. COREQ: ENGR 330.

**ME 340 ELECTRONIC MATERIALS AND PROCESSES (3-0-3)(F/S).** Atomic, electronic, and crystallographic principles that affect the selection and use of materials. Thermodynamics, solid state and quantum physics used to explain the nature of solids. Properties, selection, and processing of engineering alloys, semiconductors, and polymers. PREREQ: CHEM 111, PHYS 212.

**ME 344 MANUFACTURING PROCESSES (3-0-3)(F/S).** Survey of manufacturing processes for metals and polymers. Frequent laboratory demonstrations and exercises to emphasize concepts. PREREQ: ME 240 and ME 241.

**ME 345 THERMODYNAMICS OF MATERIALS (3-0-3)(F/S).** Thermodynamic properties; reactions and chemical equilibrium in gases; solutions, phase equilibria, phase diagrams, reaction equilibria; surfaces and interfaces; point defects in crystals. PREREQ: ME 240 and ENGR 320.

**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 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 333 and either MATH 272, or MATH 275.

**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 333, and either MATH 272 or MATH 275.

**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 333 and either MATH 272 or MATH 275.

**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 333, and either MATH 272 or MATH 275, 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 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 480. PREREQ: ME 320 and ME 352.

**ME 462 MACHINE DESIGN (3-0-3)(F/S).** Development and application of methods for the design of machine components such as brakes, bearings, clutches, shafts, springs, gears and fasteners. PREREQ: MATH 360, ME 240, 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 474-474G CONTROLS (2-2-3)(F/S).** Theory and application of analysis and control of physical systems using classical and modern computer based methods. PREREQ: ENGR 220 and MATH 333.

**ME 480 SENIOR DESIGN PROJECT (3-3-4)(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 and engineering requirements, design specifications, and Quality function deployment. Multiple aspects of concept design, preliminary design, final product design, documentation and presentation. PREREQ: ME 462 and ME 424.

**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 272 or MATH 275, PHYS 211, PHYS 211L.

**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 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: ME 240, ME 280, ENGR 350.

## Medical Technology - pre-professional program — see Department of Health Studies

## Medicine - pre-professional program — see Department of Health Studies

## Mexican-American Studies — see Department of Sociology

# Department of Military Science (Army ROTC)

Pavilion, Room 2016 Telephone 208 426-3500
http://armyrotc.boisestate.edu Fax 208 343-0543
e-mail: armyrotc@boisestate.edu

**CADRE:** *Chair and Professor:* LTC Michael T. Mikitish. *Assistant Professors:* Espada, Hilton, Kelly, Myers, Nelson.

## 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 the senior division, Army ROTC, is to provide students who have the ability and desire the opportunity to become commissioned officers in the United States Army, Army Reserve, 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 6-week summer camp, or two years of academic classes and two summer camps. Training in leadership is emphasized. Instruction is given in subjects common to all branches of the Army, with stress placed on the following: organization of the Army and ROTC; individual weapons and marksmanship; military history; management; leadership; 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 in the basic course, which 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 continuation in the four-year program and 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 6-week summer camp between their sophomore and junior year, or by obtaining completing Military Basic Training. Veterans and Reserve/National Guard members may receive credit for the basic course.

**Advanced Course** In addition to the requirements of the basic course, the advanced course requires two additional years of military science and a 6-week summer camp. The camp 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

Advanced program cadets must:

1. Have satisfied **one** of the following requirements: completion of the basic course; successfully completed the six-week summer basic camp; completed Basic Training. All students must have a minimum of 58 semester hours.
2. Be able to complete all requirements for commissioning before their 30th birthday.
3. Successfully complete the prescribed survey and general screening tests.
4. Be selected by the President of BSU or any other institution to which they may thereafter be admitted.
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 five-week summer training camp between the junior and senior year, or in exceptional cases, at the end of the senior year.

8. Enlist in the ROTC Control Group. This enlistment does not involve additional training or duty but is to insure compliance with the terms of the contract signed by the student.
9. Agree to accept a commission if tendered.
10. Serve as a commissioned officer for four years in the active Army, or for eight years in either the Army Reserves or National Guard. 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.
11. Complete the requirements for Precommissioning Training (PCT). The PCT system is designed to articulate skills and knowledge that are required of all U.S. Army Officers. The professional military education component consists of two parts, a baccalaureate degree and at least **one** undergraduate course from each of the three designated fields of study listed below:

    **Communication Skills** *Recommended Courses:* advanced English composition, creative writing, business writing, scientific writing and language, writing for mass communication, and public speaking. *Alternative Courses:* linguistics, logic, other courses that meet the requirement, and is approved by the PMS.

    **Military History** *Recommended Courses:* 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 PMS that meets the requirement.

    **Computer literacy** *Recommended Courses:* introduction to computers, microcomputer applications, introduction to word processing on microcomputers. *Alternative Courses:* principals of data processing, computer languages and logic, software and hardware concepts, other courses approved by the PMS that meet the requirements.

## Scholarships

Two and three year scholarship applications are available through the Military Science Department. Each scholarship recipient can receive up to $9,000 per year for either 2, 3, or 4 years. These scholarships pay for tuition and associated fees. There is an additional $450 per year flat rate for books. Students who are in the Advanced Program (Junior and Senior status) and/or are scholarships recipients will also receive an additional $300 per month (see "Financial Assistance", below). Each student selected for a scholarship must serve in either the National Guard, Reserves, or Active Duty as a commissioned officer.

## Financial Assistance

Each advanced course student receives an allowance of $300 a month for up to ten months a year for two years. Summer camp pay, in addition to meals, quarters, medical/dental attention, and travel pay, is $760 (approximately). A uniform allowance of $300 is paid to each commissioned student upon entry into active duty.

## 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 furthering the military training of the student. Students are responsible for the safekeeping, care, and return of the property issued to them.

## Course Offerings

**See page 53 for a definition of the course-numbering system.**

**MILSCI — MILITARY SCIENCE - No military obligation at lower-division level**

**Lower Division**

**MILSCI 101 INTRODUCTION TO MILITARY SCIENCE (1-1-1).** Provides an overview of ROTC to include the purpose and history of ROTC, introduction to land navigation, customs and courtesies of the military, rifle marksmanship, and first aid. Laboratory consists of progressive participation in leadership exercises, adventure training, and military branch orientation.

**MILSCI 102 INTRODUCTION TO MILITARY SCIENCE (1-1-1).** This course is a continuation of MILSCI 101. The student will receive further instruction in such military subjects as small-unit tactics, individual tactical movement, first aid, and introduction to leadership. Laboratory consists of progressive participation in leadership exercises, adventure training, and military skills orientation. PREREQ: MILSCI 101 or PERM/INST.

**MILSCI 104 RANGER CHALLENGE (0-1-1)(F,S).** Course is designed to augment existing military science classes, especially MILSCI 101 and 102 classes. Students will be instructed in several basic military/survival skills such as field expedient bridging, marksmanship, individual weapons familiarization, individual tactical movement, and physical readiness. This training culminates in team competitions among various colleges and universities throughout the Northwest that have military science departments.

**MILSCI 201 INTRODUCTION TO LEADERSHIP (2-1-2).** Prepares student for ROTC advanced course. Areas of emphasis will include leadership, land navigation, oral and written communications, and general military subjects as outlined by Precommissioning Training (PCT) guidance. Laboratory consists of progressive instruction in land navigation, individual military skills, adventure training, and military professionalism.

**MILSCI 202 APPLIED LEADERSHIP (2-1-2).** Prepares the student for the ROTC advanced course. The applied leadership course will concentrate on the instruction and practical application of military professional development, first aid, and small-unit tactics. Laboratory consists of progressive participation in leadership exercises, adventure training, military skills orientation, and tactical instruction.

**Upper Division**

**MILSCI 301 LEADERSHIP AND MANAGEMENT (3-1-3)(F).** Increases the student's poise and confidence as a military instructor and leader. Provides information on the branches of the army available for assignment and prepares each student to make his/her selection during the senior year. Prepares the student for participation in ROTC Advanced Camp. Laboratory consists of progressive participation in advanced leadership exercises, adventure training, and orienteering.

**MILSCI 302 BASIC TACTICS (3-1-3)(S).** Introduces the student to the fundamentals of combat operations. Prepares the student for ROTC Advanced Camp. Develops leadership abilities, promotes confidence, and readies students for military service as commissioned officers. Laboratory consists of progressive participation in advanced leadership exercises, adventure training, and tactical operations.

**MILSCI 390 MILITARY SCIENCE PRACTICUM (V-V-6)(SU).** Provides students with the opportunity to apply the skills they have learned. Is completed at the 5-week ROTC Adventure Leadership Camp at Fort Lewis, Washington. NOTE: This is required of all contracted students and is usually required between the junior and senior year.

**MILSCI 401 ADVANCED TACTICS (3-1-3)(F).** Prepares the prospective army officer for initial army assignment. Covers military staff organization and responsibilities; military intelligence; logistics, maintenance and supply; and an introduction to military justice. Students apply principles of advanced leadership by planning and conducting laboratory training.

**MILSCI 402 PROFESSIONAL PREPARATION (3-1-3)(S).** Includes discussions of: ethics and human relations; counseling techniques; military service in today's society; obligations and responsibilities of an officer on active duty; and coordination and operation of the military team. Students receive thorough leadership assessment and are responsible for planning and executing laboratory training.

**MILSCI 493 MILITARY SCIENCE INTERNSHIP (V-V-6).** Provides senior students with the opportunity to apply the skills they have learned. Is completed by simultaneous membership in ROTC and Army Reserve/National Guard (P/N). PERM/CHAIR.

# Department of Modern Languages and Literatures

Library, Room 140-B Telephone 208 426-3956
http://modlang.boisestate.edu/mldept/mldhome.htm Fax 208 426-4285
e-mail: ldawkins@boisestate.edu or jbalzar@boisestate.edu

*Chair and Associate Professor:* . *Associate Professors:* Boucher, Browning, Constant, Garza, Moorhead-Rosenberg. *Assistant Professors*: Fulton, Henderson. *Spanish Language Coordinator:* Figueras.

## 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 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 basic instruction in Japanese.

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 the country 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 the culture and customs, often while studying at foreign universities and living with local families.

### French and Spanish Placement Exam

In order to be placed in the correct French or Spanish class, students must take the French or Spanish placement exam. The exam fee is $2.00, payable in the Payment and Disbursement Center, Administration Building, Room 211, prior to taking the test. Bring the fee receipt and photo ID to the test, held in the Education Building, Room 417. The test is available during lab business hours. Phone 208 426-1435 to check lab hours. Scoring is immediate. If you have questions, contact the Department of Modern Languages and Literatures at 208 426-3956.

### German Placement Exam

For German placement, contact Dr. Heike Henderson, German Section Head, Department of Modern Languages and Literatures at 208 426-3956.

### Language Resource Center

Computers, language software, videos, conversation lab, satellite TV, and other resources 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.

### Petitions for Language Credit

Once a student enrolls in and successfully completes a language course beyond the 101-level with a grade of C or higher, he or she may petition to receive credit for all courses that are prerequisites to the course that the student has successfully completed.

## 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 (FREN 101, 102) and intermediate (FREN 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 competence in French by means of an oral proficiency interview administered as part of the senior seminar (FREN 498), which must be taken during the last year of the program.
4. Secondary Education majors should also consult with the FTSE 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 40 for list of approved courses** | |
| FREN 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 40 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 40 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 |
| FREN 101, 102 Elementary French | 8 |
| FREN 203 Intermediate French Conversation | 2 |
| FREN 303 Advanced French Conversation and Composition | 3 |
| FREN 304 Introduction to French and Francophone Literatures | 3 |
| FREN 376 French Culture | 3 |
| FREN 404 Survey of French Literature | 3 |
| FREN 412 Advanced French Grammar and Pronunciation | 3 |
| FREN 498 Senior Seminar | 3 |
| FREN 475 France Today **OR** FREN 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 40 for list of approved courses** | |
| FREN 201, 202 Intermediate French I and II | 6 |
| Area I core course in literature | 3 |
| Area I core course in a third field | 3 |
| **Area II — see page 40 for list of approved courses** | |
| EDUC 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 |

*— continued —*

| *French, Secondary Education (continued)* | |
|---|---|
| **Area III — see page 40 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 |
| FORLNG 410 Approaches to Foreign Language Education | 3 |
| EDUC 202 Educational Technology – Classroom Applications | 3 |
| EDUC 301 Teaching: Experience I | 1 |
| EDUC 302 Learning and Instruction | 4 |
| EDUC 350 Teaching Students with Exceptional Needs at the Secondary Level | 3 |
| EDUC 401 Professional Year - Teaching Experience II | 2 |
| EDUC 402 Content Literacy for Secondary Students | 3 |
| Teaching Experience III/IV | 16 |
| NOTE: Completion of all requirements for graduation with a secondary education option may require more than 128 credit hours. See "Teacher Education" for more information. | |
| FREN 101, 102 Elementary French | 8 |
| FREN 203 Intermediate French Conversation | 2 |
| FREN 303 Advanced French Conversation and Composition | 3 |
| FREN 304 Introduction to French and Francophone Literatures | 3 |
| FREN 376 French Culture | 3 |
| FREN 404 Survey of French Literature | 3 |
| FREN 412 Advanced French Grammar and Pronunciation | 3 |
| FREN 498 Senior Seminar | 3 |
| FREN 475 France Today **OR** FREN 485 The Francophone World Today | 3 |
| LING 305 Introduction to Language Studies | 3 |
| Upper-division French electives | 9 |
| Electives to total 128 credits | 7-15 |
| 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 (GERM 101, 102) and intermediate (GERM 201, 202) 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 GERM 498 Senior Seminar during the last year of study.
4. Secondary Education majors should also consult with the FTSE 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 40 for list of approved courses** | |
| GERM 201, 202 Intermediate 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 40 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 40 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 |

*— continued —*

| *German (continued)* | |
|---|---|
| GERM 101, 102 Elementary German I and II | 8 |
| GERM 303 Advanced German Conversation and Composition | 3 |
| GERM 304 Introduction to German Literature | 3 |
| GERM 377 German Culture and Civilization | 3 |
| GERM 404 Survey of German Literature I | 3 |
| GERM 405 Survey of German Literature II | 3 |
| GERM 475 The German-Speaking World Today | 3 |
| GERM 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 40 for list of approved courses** | |
| GERM 201, 202 Intermediate German | 8 |
| Area I core course in literature | 3 |
| Area I core course in a third field | 3 |
| **Area II — see page 40 for list of approved courses** | |
| EDUC 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 40 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 |
| EDUC 202 Educational Technology – Classroom Applications | 3 |
| EDUC 301 Teaching: Experience I | 1 |
| EDUC 302 Learning and Instruction | 4 |
| EDUC 350 Teaching Students with Exceptional Needs at the Secondary Level | 3 |
| EDUC 401 Professional Year - Teaching Experience II | 2 |
| EDUC 402 Content Literacy for Secondary Students | 3 |
| Teaching Experience III/IV | 16 |
| NOTE: Completion of all requirements for graduation with a secondary education option may require more than 128 credit hours. See "Teacher Education" for more information. | |
| FORLNG 410 Approaches to Foreign Language Education | 3 |
| GERM 101, 102 Elementary German | 8 |
| GERM 303 Advanced German Conversation and Composition | 3 |
| GERM 304 Introduction to German Literature | 3 |
| GERM 377 German Culture and Civilization | 3 |
| GERM 404 Survey of German Literature I | 3 |
| GERM 405 Survey of German Literature II | 3 |
| GERM 475 The German-Speaking World Today | 3 |
| GERM 498 Senior Seminar | 3 |
| Upper-division German courses | 9 |
| LING 305 Introduction to Language Studies | 3 |
| Electives to total 128 credits | 7-15 |
| 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 (SPAN 101, 102 or SPAN 108) and intermediate Spanish (SPAN 201, 202, or SPAN 201, 203, or SPAN 208) 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. Senior Seminar (SPAN 498) must be taken in the last year of the Spanish program.

4. The candidate must demonstrate advanced levels of language proficiency by means of an oral proficiency interview administered as part of the senior seminar.
5. Secondary Education majors should also consult with the FTSE 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 40 for list of approved courses** | |
| SPAN 201, 202, or SPAN 201, 203, or SPAN 208 Intermediate Spanish | 8 |
| Area I core course in literature | 3 |
| Area I core course in a third field | 3 |
| **Area II — see page 40 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 40 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 |
| SPAN 101, 102 or SPAN 108 Elementary Spanish | 8 |
| SPAN 303 Advanced Spanish Conversation and Composition | 3 |
| SPAN 304 Introduction to Hispanic Literature | 3 |
| SPAN 412 Advanced Spanish Grammar and Syntax | 3 |
| SPAN 498 Senior Seminar | 3 |
| SPAN 376 Spanish Peninsular Civilization and Culture **OR** SPAN 377 Latin American Civilization and Culture **OR** SPAN 385 Mexican American Civilization and Culture | 3 |
| SPAN 403, 404 Survey of Latin American Literature I and II **OR** SPAN 405, 406 Survey of Spanish Peninsular Literature I and II | 6 |
| Upper-division Spanish electives chosen from: FORLNG 360, SPAN 305, SPAN 403, SPAN 404, SPAN 405, SPAN 406, SPAN 425, SPAN 430, SPAN 439, SPAN 440, SPAN 477, SPAN 480, SPAN 490, SPAN 493, or SPAN 496. Only 3 credit hours of electives may be from SPAN 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 40 for list of approved courses** | |
| SPAN 201, 202, or SPAN 201, 203, or SPAN 208 Intermediate Spanish | 8 |
| Area I core course in literature | 3 |
| Area I core course in a third field | 3 |
| **Area II — see page 40 for list of approved courses** | |
| EDUC 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 40 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 |

*— continued —*

*Spanish, Secondary Education (continued)*

| | |
|---|---|
| EDUC 202 Educational Technology – Classroom Applications | 3 |
| EDUC 301 Teaching: Experience I | 1 |
| EDUC 302 Learning and Instruction | 4 |
| EDUC 350 Teaching Students with Exceptional Needs at the Secondary Level | 3 |
| EDUC 401 Professional Year - Teaching Experience II | 2 |
| EDUC 402 Content Literacy for Secondary Students | 3 |
| Teaching Experience III/IV | 16 |
| NOTE: Completion of all requirements for graduation with a secondary education option may require more than 128 credit hours. See "Teacher Education" for more information. | |
| FORLNG 410 Approaches to Foreign Language Education | 3 |
| LING 305 Introduction to Language Studies | 3 |
| SPAN 101, 102 or SPAN 108 Elementary Spanish | 8 |
| SPAN 303 Advanced Spanish Conversation and Composition | 3 |
| SPAN 304 Introduction to Hispanic Literature | 3 |
| SPAN 412 Advanced Spanish Grammar and Syntax | 3 |
| SPAN 498 Senior Seminar | 3 |
| SPAN 376 Spanish Peninsular Civilization and Culture **OR** SPAN 377 Latin American Civilization and Culture **OR** SPAN 385 Mexican American Civilization and Culture | 3 |
| SPAN 403, 404 Survey of Latin American Literature I and II **OR** SPAN 405, 406 Survey of Spanish Peninsular Literature I and II | 6 |
| Upper-division Spanish electives chosen from: FORLNG 360, SPAN 305, SPAN 403, SPAN 404, SPAN 405, SPAN 406, SPAN 425, SPAN 430, SPAN 439, SPAN 440, SPAN 477, SPAN 480, SPAN 490, SPAN 493, or SPAN 496. Only 3 credit hours of electives may be from SPAN 496 | 9 |
| Electives to total 128 credits | 7-15 |
| Total | 128 |

## French Minor: Cultural, Literary Emphasis

| Course Number and Title | Credits |
|---|---|
| FREN 201, 202 Intermediate French | 6 |
| FREN 203 Intermediate French Conversation | 2 |
| FREN 303 Advanced French Conversation and Composition | 3 |
| FREN 304 Introduction to French and Francophone Literatures | 3 |
| FREN 412 Advanced French Grammar and Pronunciation | 3 |
| FREN 376 French Culture **OR** FREN 475 France Today **OR** FREN 485 The Francophone World Today | 3 |
| Upper-division French courses | 3 |
| Total | 23 |

## French Minor: Business Emphasis

| Course Number and Title | Credits |
|---|---|
| FREN 201, 202 Intermediate French | 6 |
| FREN 203 Intermediate French Conversation | 2 |
| FREN 303 Advanced French Conversation and Composition | 3 |
| FREN 307 French for Business | 3 |
| FREN 412 Advanced French Grammar and Pronunciation | 3 |
| FREN 376 French Culture **OR** FREN 475 France Today **OR** FREN 485 The Francophone World Today | 3 |
| Upper-division French courses | 3 |
| Total | 23 |

### German Minor: Literature and Culture Emphasis

| Course Number and Title | Credits |
|---|---|
| GERM 201, 202 Intermediate German | 8 |
| GERM 303 Advanced German Conversation and Composition<br>GERM 304 Introduction to German Literature<br>GERM 377 German Culture and Civilization | 3<br>3<br>3 |
| Upper-division German courses | 6 |
| Total | 23 |

### German Minor: Business Emphasis

| Course Number and Title | Credits |
|---|---|
| GERM 201, 202 Intermediate German | 8 |
| GERM 303 Advanced German Conversation and Composition<br>GERM 307 Business German<br>GERM 475 The German-Speaking World Today<br>GERM 480 Advanced Business German | 3<br>3<br>3<br>3 |
| Upper-division German courses | 3 |
| Total | 23 |

### Japanese Studies Minor

| Course Number and Title | Credits |
|---|---|
| ANTH 310 Japanese Culture and Society | 3 |
| JAPN 101, 102, 201, 202 Elementary & Intermediate Japanese I II | 16 |
| Electives chosen from the following: ANTH 209, ART 103, ART 357, ENGL 215, HIST 105, PHIL 221, POLS 328 | 6 |
| Total | 25 |

### Spanish Minor: Primary, Secondary, Bilingual Education, or Spanish Emphasis

| Course Number and Title | Credits |
|---|---|
| SPAN 201, 202 or SPAN 201, 203 or SPAN 208 Intermediate Spanish<br>SPAN 303 Advanced Spanish Conversation and Composition<br>SPAN 304 Introduction to Hispanic Literature<br>SPAN 412 Advanced Spanish Grammar and Syntax | 8<br>3<br>3<br>3 |
| SPAN 376 Spanish Peninsular Civilization and Culture **OR**<br>SPAN 377 Latin American Civilization and Culture **OR**<br>SPAN 385 Mexican American Civilization and Culture | 3 |
| Upper-division Spanish courses | 3 |
| Total | 23 |

### Spanish Minor: Business Emphasis

| Course Number and Title | Credits |
|---|---|
| SPAN 201, 202 or SPAN 201, 203 or SPAN 208 Intermediate Spanish<br>SPAN 303 Advanced Spanish Conversation and Composition<br>SPAN 305 Spanish for Business<br>SPAN 480 Advanced Business Topics in the Spanish Speaking World | 8<br>3<br>3<br>3 |
| SPAN 376 Spanish Peninsular Civilization and Culture **OR**<br>SPAN 377 Latin American Civilization and Culture **OR**<br>SPAN 385 Mexican American Civilization and Culture | 3 |
| Upper-division Spanish courses | 3 |
| Total | 23 |

# Course Offerings

**See page 53 for a definition of the course-numbering system.**

**FORLNG — FOREIGN LANGUAGE**

**Upper Division**

**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)(F/S).** An overview of theories of language acquisition and of changing pedagogical practices in secondary foreign language education. Examination of contemporary approaches to language teaching and learning, from practical as well as theoretical perspectives. Topics may include communicative competence, the oral proficiency interview, assessment techniques, syllabus preparation, development of lesson plans, and the integration of cultural components with the four skills: listening, speaking, reading, and writing. PREREQ: LING 305 and minimum of six credits upper-division language or PERM/INST.

**FREN — FRENCH**

**Lower Division**

**FREN 101 ELEMENTARY FRENCH I (4-1-4)(F/S)(Area I).** 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 FREN 101 for credit except by PERM/INST.

**FREN 102 ELEMENTARY FRENCH II (4-1-4)(F/S)(Area I).** Continues to develop beginning abilities in all four language skills: speaking, reading, writing, and listening. Offers basic study of grammatical structures and vocabulary in a communicative context. Introduces students to Francophone cultures. PREREQ: FREN 101 or equivalent as determined by placement exam.

**FREN 201 INTERMEDIATE FRENCH I (3-1-3)(F/S)(Area I)** Further development of all four language skills: listening, speaking, reading, and writing. Intensive review of fundamentals of structure and vocabulary in a communicative context. Topics for conversation focus on Francophone cultures. Course conducted in French. PREREQ: FREN 102 or equivalent as determined by placement exam or PERM/INST.

**FREN 202 INTERMEDIATE FRENCH II (3-1-3)(F/S)(Area I)** Further development of all four language skills: listening, speaking, reading, and writing. Intensive review of fundamentals of structure and vocabulary in a communicative context. Topics for conversation focus on Francophone cultures. Course conducted in French. PREREQ: FREN 201 or equivalent as determined by placement exam or PERM/INST.

**FREN 203 INTERMEDIATE FRENCH CONVERSATION (2-1-2)(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: FREN 102 or equivalent or PERM/INST.

**Upper Division**

**FREN 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: FREN 202 and FREN 203 or PERM/INST.

**FREN 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: FREN 303.

**FREN 307 FRENCH FOR BUSINESS (3-0-3)(F/S)(Alternate years).** 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, preparation of resumes, etc. Frequent writing assignments. Course conducted in French. PREREQ: FREN 303.

**FREN 376 FRENCH CULTURE (3-0-3)(F/S).** An overview of various aspects of French culture, including geography, history, social structure, art, music, and science. The course will include readings, discussions, and frequent writing assignments. Course conducted in French. PREREQ: FREN 202.

**FREN 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: FREN 304.

**FREN 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: FREN 303.

**FREN 420 TOPICS IN FRENCH LITERATURE (3-0-3)(F/S)(Alternate years).** A focused study of French literature organized around a historical period, a genre, a movement, an author, or a theme. Topics will vary each time the course is taught. Frequent writing assignments. Course conducted in French. May be repeated once for credit with PERM/INST. PREREQ: FREN 304.

**FREN 430 TOPICS IN FRANCOPHONE LITERATURE (3-0-3)(F/S)(Alternate years).** A focused study of the literature of a Francophone region: North Africa, West Africa, the Caribbean, Quebec. The course will be organized around a historical period, a genre, a movement, an author, or a theme. Topics will vary each time the course is taught. Frequent writing assignments. Course conducted in French. May be repeated once for credit with PERM/INST. PREREQ: FREN 304.

**FREN 475 FRANCE TODAY (3-0-3)(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: FREN 303.

**FREN 485 THE FRANCOPHONE WORLD TODAY (3-0-3)(F/S)(Alternate years).** Topics in contemporary Francophone cultures, including recent historical background, and developments in society, literature, cinema, and politics. Content will rotate to cover various Francophone regions, including 1) Quebec, 2) North Africa, and 3) West Africa and the Caribbean. Course conducted in French. May be repeated once for credit with PERM/INST. PREREQ: FREN 303.

**FREN 490 TOPICS IN FRENCH AND FRANCOPHONE CINEMA (3-2-3)(F/S) (Alternate years).** An advanced culture course using films from French and Francophone cultures for further refinement of linguistic and analytical skills. Topics will vary each time the course is taught. Film lab required. Readings will include critical articles on the films and/or literary texts from which films were adapted. Frequent writing assignments. Course conducted in French. May be repeated once for credit with PERM/INST. PREREQ: FREN 304.

**FREN 498 SENIOR SEMINAR (3-0-3)(F/S)(Alternate years).** A capstone, exit requirement course. Topic chosen by instructor on a rotating basis. Discussion of literary and cultural subject matter. Students will 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. PREREQ: FREN 304 or PERM/INST.

**GERM — GERMAN**

**Lower Division**

**GERM 101 ELEMENTARY GERMAN I (4-1-4)(F/S)(Area I).** Develops beginning abilities in all four language skills: speaking, reading, writing, and listening. Offers basic study of grammatical structures and vocabulary in communicative context. Introduces students to Germanic cultures.

**GERM 102 ELEMENTARY GERMAN II (4-1-4)(F/S)(Area I).** 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. Prerequisite: GERM 101 or PERM/INST.

**GERM 201 INTERMEDIATE GERMAN I (4-1-4)(F/S)(Area I).** Intended to further develop all four language skills: speaking, reading, writing, and listening. Intensive review of fundamentals of structure and vocabulary in a communicative context. Topics for conversation, reading, and writing focus on Germanic cultures. Course conducted in German. PREREQ: GERM 102 or PERM/INST.

**GERM 202 INTERMEDIATE GERMAN II (4-1-4)(F/S)(Area I).** Intended to further develop all four language skills: speaking, reading, writing, and listening. Intensive review of fundamentals of structure and vocabulary in a communicative context. Topics for conversation, reading, and writing focus on Germanic cultures. Course conducted in German. PREREQ: GERM 201 or PERM/INST.

**Upper Division**

**GERM 303 ADVANCED GERMAN CONVERSATION AND COMPOSITION (3-0-3) (F/S).** Practice towards idiomatic fluency. Readings from newspapers, magazines, and essays, and discussion of slides, tapes, and films. Frequent writing required. PREREQ: GERM 202 or PERM/INST.

**GERM 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: GERM 202 or PERM/INST.

**GERM 307 BUSINESS GERMAN (3-0-3)(F/S).** This course introduces students to the terminology and etiquette of business practice in the German-speaking world. It develops a basic ability to function linguistically and socially in a business setting and introduces students to the appropriate terminology and structures for all forms of business communication. Special attention is given to those activities making up the Prufung Deutsch fur den Beruf. Course conducted in German. PREREQ: GERM 202 or PERM/INST.

**GERM 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: GERM 303 or PERM/INST.

**GERM 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: GERM 304 or PERM/INST.

**GERM 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: GERM 304 or PERM/INST.

**GERM 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: GERM 303 or PERM/INST.

**GERM 420 TOPICS IN GERMAN LITERATURE (3-0-3)(F/S)(Alternate years).** Discussion of topics in literature such as nation, family, minorities, or gender roles. Analysis of not only the literature, but also the social and historical context in which the literature was and is produced. May focus on a particular period or genre. Course conducted in German. May be repeated for credit with a different topic. PREREQ: GERM 304 or PERM/INST.

**GERM 455 CONTEMPORARY GERMAN LITERATURE (3-0-3)(F/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: GERM 304 or PERM/INST.

**GERM 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: GERM 303 or PERM/INST.

**GERM 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: GERM 304 or PERM/INST.

**GERM 480 ADVANCED BUSINESS GERMAN(3-0-3)(F/S)(Alternate years).** An in-depth analysis of business etiquette, practices and climate in the German-speaking world. Discussion of topics such as appropriate forms of correspondence, advances in technology, and the impact of the social and political climate on business practices. Special attention given to those activities making up the Prufung Wirtschaftsdeutsch International. Course conducted in German. PREREQ: GERM 307 or PERM/INST.

**GERM 498 SENIOR SEMINAR (3-0-3)(F/S).** A capstone, exit requirement course. Topic chosen by instructor on a rotating basis. Discussion of literary and cultural 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.

**JAPN — JAPANESE**

**Lower Division**

**JAPN 101 ELEMENTARY JAPANESE I (4-1-4)(F/S)(Area I).** 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.

**JAPN 102 ELEMENTARY JAPANESE II (4-1-4)(F/S)(Area I).** 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: JAPN 101 or PERM/INST.

**JAPN 201 INTERMEDIATE JAPANESE I (4-0-4)(F/S)(Area I).** 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: JAPN 102 or PERM/INST.

**JAPN 202 INTERMEDIATE JAPANESE II (4-0-4)(F/S)(Area I).** 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: JAPN 201 or PERM/INST.

**SPAN — SPANISH**

**Lower Division**

**SPAN 101 ELEMENTARY SPANISH I (4-1-4)(F/S)(Area I).** 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.

**SPAN 102 ELEMENTARY SPANISH II (4-1-4)(F/S)(Area I).** Continues to develop beginning abilities in all four language skills: speaking, reading, writing, and listening. Offers a basic study of grammatical structures and vocabulary in a communicative context. Introduces the student to Hispanic culture. PREREQ: SPAN 101 or equivalent as determined by placement exam.

**SPAN 108 INTENSIVE ELEMENTARY SPANISH (8-2-8)(F/S)(Area I).** 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 SPAN 101 and SPAN 102 in one semester. Students who successfully complete this course may not receive credit for SPAN 101 and/or SPAN 102.

**SPAN 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.

**SPAN 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.

**SPAN 201 INTERMEDIATE SPANISH I (4-1-4)(Area I)(F/S).** Intended to further develop all four language skills: speaking, reading, writing, and listening. Intensive review of fundamentals of structure and vocabulary in a communicative context. Topics for conversation, reading, and writing focus on Hispanic cultures. Course conducted in Spanish. PREREQ: SPAN 102 or SPAN 108 or equivalent as determined by placement examination.

**SPAN 202 INTERMEDIATE SPANISH II (4-1-4)(Area I)(F/S).** Intended to further develop all four language skills: speaking, reading, writing, and listening. Intensive review of fundamentals of structure and vocabulary in a communicative context. Topics for conversation, reading, and writing focus on Hispanic culture. Course conducted in Spanish. PREREQ: SPAN 201 or equivalent as determined by placement exam.

**SPAN 203 INTERMEDIATE SPANISH FOR THE NATIVE OR NEAR-NATIVE SPEAKER (4-1-4)(Area I)(F/S)(SPAN 102).** 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 SPAN 202. Course conducted in Spanish. PREREQ: SPAN 201 or equivalent as determined by placement exam and/or PERM/INST.

**SPAN 208 INTENSIVE INTERMEDIATE SPANISH (8-2-8)(Area I)(F/S)[SPAN 201, SPAN 202].** Intended to further develop all four language skills: speaking, reading, writing, and listening. Fast-paced, intensive review of fundamentals of structures and vocabulary in a communicative context. Topics for conversation, reading and writing focus on Hispanic cultures. Course conducted in Spanish. Covers combined material of SPAN 201 and SPAN 202 in one semester. Students who successfully complete this course may not receive credit for SPAN 201 and/or SPAN 202. PREREQ: SPAN 102 or SPAN 108 or equivalent as determined by placement exam and/or PERM/INST.

**Upper Division**

**SPAN 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: SPAN 202 or SPAN 203 or SPAN 208 or equivalent as determined by placement exam and/or PERM/INST.

**SPAN 304 INTRODUCTION TO HISPANIC LITERATURE (3-0-3)(F/S).** Develops and expands composition and conversation skills through the use of Hispanic literary terms and forms. A broad introductory course for students wishing to concentrate in culture and literature and for those students who will be teaching at any level. Frequent writing assignments. Course conducted in Spanish. PREREQ: SPAN 303.

**SPAN 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: SPAN 303.

**SPAN 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: SPAN 303.

**SPAN 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: SPAN 303.

**SPAN 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: SPAN 303.

**SPAN 403 SURVEY OF LATIN AMERICAN LITERATURE I (3-0-3)(F)(Alternate years).** 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: SPAN 304.

**SPAN 404 SURVEY OF LATIN AMERICAN LITERATURE II (3-0-3)(S)(Alternate years).** 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 were and are produced. Frequent writing assignments. Course conducted in Spanish. PREREQ: SPAN 304.

**SPAN 405 SURVEY OF SPANISH PENINSULAR LITERATURE I (3-0-3)(F)(Alternate years).** 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: SPAN 304.

**SPAN 406 SURVEY OF SPANISH PENINSULAR LITERATURE II (3-0-3)(S)(Alternate years).** 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: SPAN 304.

**SPAN 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: SPAN 303.

**SPAN 425 MEXICAN AMERICAN LITERATURE (3-0-3)(F/S)(Alternate years).** A survey of writings by Mexican American authors. Discussion of topics such as an analysis of Mexican American cultural and identity formation from 1848 to the present as represented in literature. Primary genres and movements, as well as gender issues within the field of Mexican American literature, with special attention given to works produced during or after the Chicano Renaissance (1960's). Frequent writing assignments in Spanish. Course conducted in Spanish. May be repeated once for credit with PERM/INST. PREREQ: SPAN 304.

**SPAN 430 TOPICS IN LATIN AMERICAN LITERATURE (3-0-3)(F/S)(Alternate years).** A focused study of Latin American literature organized around a historical period, a genre, a movement, an author, or a theme. Topics will vary each time the course is

taught. Frequent writing assignments. Course conducted in Spanish. May be repeated once for credit with PERM/INST. PREREQ: SPAN 304.

**SPAN 440 TOPICS IN SPANISH PENINSULAR LITERATURE (3-0-3)(F/S) (Alternate years).** A focused study of Spanish Peninsular literature organized around a historical period, a genre, a movement, an author, or a theme. Topics will vary each time the course is taught. Frequent writing assignments. Course conducted in Spanish. May be repeated once for credit with PERM/INST. PREREQ: SPAN 304.

**SPAN 477 WOMEN'S LITERATURE OF THE SPANISH-SPEAKING WORLD (3-0-3)(F/S)(Alternate years).** An introduction to literature written by women in the Spanish-speaking world. All periods, all genres. Discussion of topics such as issues concerning women writers, representation of women in literature, and/or the social and historical climate in which the literature was and is produced. Frequent writing assignments. Course conducted in Spanish. May be repeated once for credit with PERM/INST. PREREQ: SPAN 304.

**SPAN 480 ADVANCED BUSINESS TOPICS IN THE SPANISH-SPEAKING WORLD (3-0-3)(F/S)(Alternate years).** An in-depth analysis of business etiquette, practices and climate in the Spanish-speaking world. Discussions of topics such as appropriate forms of correspondence, advances in technology, the impact of the social and political climate on business practice, as well as the changing demographics of the Spanish-speaking population in the United States. Course conducted in Spanish. PREREQ: SPAN 303 and SPAN 305.

**SPAN 490 TOPICS IN HISPANIC CINEMA (3-2-3)(F/S)(Alternate years).** An advanced culture course using films from Hispanic cultures for further refinement of linguistic and analytic skills. Topics will be chosen from Spanish Peninsular, Latin American, and/or U.S. Latino Cinema. Film lab required. Readings will include critical articles on the films and/or literary texts from which films were adapted. Frequent writing assignments. Course conducted in Spanish. May be repeated once for credit with PERM/INST. PREREQ: SPAN 304.

**SPAN 498 SENIOR SEMINAR (3-0-3)(F/S)(Alternate years).** A capstone, exit requirement course. Topic chosen by instructor on a rotating basis year-to-year. Discussion of topics such as literary, linguistic, and/or social and historical subject matter. Students will demonstrate proficiency in the written and oral codes by means of a 10-15 page research paper and an expanded oral presentation on the topic of the paper. Frequent writing assignments. Course must be taken at least one semester prior to graduation and includes an exit oral proficiency interview. Course conducted in Spanish. PREREQ: SPAN 304.

### Multi-Ethnic Studies — see Department of Sociology

# Department of Music

Morrison Center, Room C-100 Telephone 208 426-1596
http://www.boisestate.edu/music/musicdpt.html Fax 208 426-1771
e-mail: hcalkins@boisestate.edu

*Chair and Professor:* James D. Cook. *Professors:* Baldassarre, Baldwin, Belfy, Berg, Mathie, Parkinson. *Associate Professors*: Bratt, Brown, Jirak, Samball, Rushing-Raynes, Saunders, Wells. *Assistant Professors:* Gould, Kline, Lamar, Maynard, Purdy, Tyson, Wyers.

## Degrees Offered

- B.M. in Composition
- B.A. and Minor in Music
- B.A. in Music/Business
- 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 as thorough and comprehensive a background in the art and practice of music as is possible to do; 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 or 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.

## 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.

All bachelor of music majors in performance or composition are required to pass, no later than the end of the junior year, the Piano Proficiency Examination as a prerequisite for taking MUS 313 Keyboard Harmony and Basic Improvisation. Students should have reached the level comparable to three semesters of class piano before taking the exam. A grade of 'C' or better in MUS 213 will satisfy this requirement. Details are available from the music department.

**Ensemble** All full-time bachelor of music majors must register in a major ensemble (Symphonic Winds, 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 .....0
(Attendance required each semester of full-time enrollment until a minimum number of semesters of Pass grade is met.)
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 Form and Analysis MUS 223 .....2
Basic conducting MUS 261 .....1
Music History and Literature I-III MUS 351, 352, 353 .....9
Total 38-39

**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 271 Orientation to 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 384 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 EDUC 402 waived.

d) pass, no later than the end of the junior year, the Piano Proficiency Examination before a faculty committee. Students should have reached the level comparable to three semesters of class piano before taking the exam. A grade of 'C' or better in MUS 213 will also satisfy the piano proficiency requirement.

e) 1. pass the state-mandated technology exam. EDUC 202 Educational Technology - Classroom Applications has been designed to assist in preparing for the exam.
2. complete a technology requirement established by the College of Education. Students who have successfully passed the technology exam are recommended to enroll in MUS 208 Music Technology instead of EDUC 202.

## Performance
## Bachelor of Music

| Course Number and Title | Credits |
|---|---|
| ENGL 101, 102 English Composition | 6 |
| **Area I — see page 40 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 40 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 40 for list of approved courses** | |
| Area III core course in mathematics | 3-5 |
| One semester of a foreign language | 4 |

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| *Performance (continued)* | |
|---|---|
| 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 223 Basic Form and Analysis | 2 |
| MUS 261 Basic Conducting | 1 |
| MUS 313, 314 Keyboard Harmony & Basic Improvisation | 4 |
| 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 423,424 Counterpoint | 6 |
| *MUS-APL 10 Concert Class | 0 |
| MUS-APL 446 Senior Recital | 2 |
| *8 semesters of Pass grade | |
| MUS-ENS — Ensemble | 8 |
| MUS-PRV — Performance Studies | 22 |
| MUS-PRV 4— Performance Studies | 8 |
| **Guitar Option** | |
| MUS 457 Major Instrument Literature | 2 |
| MUS 463, 464 Major Instrument Pedagogy I & II | 4 |
| Electives to total 128 credits | 9-11 |
| Total | 128 |
| **Piano Option** | |
| MUS 457 Major Instrument Literature | 2 |
| MUS 463, 464 Major Instrument Pedagogy I & II | 4 |
| Electives to total 128 credits | 9-11 |
| Total | 128 |
| **Voice Option** | |
| Second semester of a foreign language | 4 |
| 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 | 1-3 |
| Total | 128 |
| **Other Instrumental Option** | |
| MUS 365 or 366 Choral or Instrumental Conducting | 1 |
| MUS 457 Major Instrument Literature | 2 |
| MUS 463, 464 Major Instrument Pedagogy I & II | 4 |
| Electives to total 128 credits | 8-10 |
| Total | 128 |

## Composition
## Bachelor of Music

| Course Number and Title | Credits |
|---|---|
| ENGL 101, 102 English Composition | 6 |
| **Area I — see page 40 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 40 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 40 for list of approved courses** | |
| Area III core course in mathematics | 3-5 |
| One semester of a foreign language | 4 |

— *continued* —

| *Composition (continued)* | |
|---|---|
| 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 | 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 223 Basic Form and Analysis | 2 |
| MUS 261 Basic Conducting | 1 |
| MUS 313, 314 Keyboard Harmony and Basic Improvisation | 4 |
| 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 or 366 Choral or Instrumental Conducting | 1 |
| MUS 410 Advanced Form and Analysis | 2 |
| MUS 423, 424 Counterpoint | 6 |
| MUS-ENS — Ensemble | 8 |
| *MUS-APL 10 Concert Class | 0 |
| MUS-APL 410 Music Composition | 8 |
| MUS-APL 447 Senior Composition Recital | 2 |
| *8 semesters of Pass grade | |
| MUS-PRV — Lower-division major performance studies | 8 |
| MUS-PRV — Lower-division minor performance studies<br>Piano, unless major instrument is Keyboard | 8 |
| MUS-PRV 3— 300-level performance studies | 4 |
| Electives to total 128 credits | 12-14 |
| Total | 128 |

| *Music Education, Dual Track (continued)* | |
|---|---|
| MUS 223 Basic Form and Analysis | 2 |
| MUS 256 Vocal Techniques and Methods | 2 |
| MUS 257, 266 Instrumental Techniques and Methods | 4 |
| MUS 261 Basic Conducting | 1 |
| MUS 271 Orientation to Music Education | 1 |
| 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, 366 Choral and Instrumental Conducting | 2 |
| MUS 368, 369 Instrumental Techniques and Methods | 4 |
| 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 EDUC 402<br>***See Music Education Emphasis Additional Requirements for explanation of this requirement. | |
| *MUS-APL 10 Concert Class | 0 |
| MUS-APL 444 One-half Senior Recital | 1 |
| *7 semesters of Pass grade | |
| MUS-ENS — Major ensemble | 7 |
| MUS-PRV — Major instrument performance studies<br>4 credits minimum at 300-level or above | 14 |
| Upper-division electives to total 40 credits | 0-4 |
| Electives to total 128 credits<br>Recommended Music elective: Functional Piano MUS 213 | 0-3 |
| Total | 128-133 |
| The above requirements lead to state certification eligibility to teach music in the public schools. Specific details are available from the music department. | |

## Music Education, Dual Track
## Bachelor of Music

| Course Number and Title | Credits |
|---|---|
| ENGL 101, 102 English Composition | 6 |
| **Area I — see page 40 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 40 for list of approved courses** | |
| EDUC 201 Foundations of Education | 3 |
| PSYC 101 General Psychology | 3 |
| Area II core course in history | 3 |
| **Area III — see page 40 for list of approved courses** | |
| Area III core course in mathematics | 3-5 |
| One semester of a foreign language **OR** Area III core course in any field | 4 |
| EDUC 301 Teaching: Experience I | 1 |
| EDUC 302 Learning and Instruction | 4 |
| EDUC 350 Teaching Students with Exceptional Needs at the Secondary Level | 3 |
| Teaching Experience III/IV | 16 |
| NOTE: Completion of all requirements for graduation with a secondary education option may require more than 128 credit hours. See "Teacher Education" 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** EDUC 202 Educational Technology-Classroom Applications | 2-3 |
| 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 |

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## Music
## Bachelor of Arts

| Course Number and Title | Credits |
|---|---|
| ENGL 101, 102 English Composition | 6 |
| **Area I — see page 40 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 40 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 40 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** MUS 353 History and Literature of Music III | 3 |

*— continued —*

| *Music (continued)* | |
|---|---|
| *MUS-APL 10 Concert Class<br>**Senior Recital **OR**<br>***Senior Project<br>*8 semesters of Pass grade<br>**See MUS-APL 444 course description for details of the Senior Recital.<br>***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. | 0<br>1 |
| 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 40 for list of approved courses** | |
| MUS 101 Survey of Western Art Music<br>Area I core course in literature<br>Area I core course in a second field<br>Area I core course in any field | 3<br>3<br>3<br>3 |
| **Area II — see page 40 for list of approved courses** | |
| COMM 101 Fundamentals of Speech Communication<br>Area II core course in history<br>Area II core course in a second field<br>Area II core course in any field | 3<br>3<br>3<br>3 |
| **Area III — see page 40 for list of approved courses** | |
| MATH 124 Mathematics As A Liberal Arts **OR**<br>MATH 130 Finite Mathematics<br>MATH 160 Survey of Calculus<br>Area III core course in a second field<br>Area III core course in any field | 4<br><br><br>4<br>4 |
| ACCT 205 Introduction to Financial Accounting<br>ACCT 206 Introduction to Managerial Accounting | 3<br>3 |
| CIS 104 Operating Systems and Word Processing **AND**<br>CIS 105 Spreadsheet Topics **AND**<br>CIS 106 Database Topics | 1<br>1<br>1 |
| GENBUS 101 Introduction to Business<br>GENBUS 202 The Legal Environment of Business | 3<br>3 |
| MGMT 301 Leadership Skills | 3 |
| MRKTEC 101 Salesmanship<br>MRKTEC 203 Principles of Promotion | 3<br>3 |
| MUS 119 Materials of Music I<br>MUS 120 Materials of Music II<br>MUS 121 Ear Training I<br>MUS 122 Ear Training II<br>MUS 352 Music History and Literature II **AND**<br>MUS 351 Music History and Literature I **OR**<br>MUS 353 Music History and Literature III | 3<br>3<br>1<br>1<br>3<br>3 |
| MUS-APL 10 Concert Class<br>8 semesters of Pass grade | 0 |
| MUS-ENS — Major ensemble | 4 |
| MUS-PRV — Performance studies | 8 |
| *Senior Project<br>*An MUS-APL 496 independent study terminal project under faculty supervision with the approval of the music department chair. | 3 |
| Upper-division music electives | 13 |

*— continued —*

| *Music/Business (continued)* | |
|---|---|
| Additional courses chosen from:<br>CIS 310 Introduction to Management Information Systems<br>ECON 201 Principles of Macroeconomics<br>ECON 202 Principles of Microeconomics<br>MKTG 301 Principles of Marketing<br>MKTG 307 Customer Behavior | 9 |
| Upper-division electives to total 40 credits | 6-11 |
| Electives to total 128 credits | 0-5 |
| Total | 128 |

## Music Minor

| Course Number and Title | Credits |
|---|---|
| MUS-APL 10 Concert Class<br>2 semesters of Pass grade | 0 |
| MUS-ENS 1— Ensemble | 2 |
| MUS 100 Introduction to Music (Area I)<br>MUS 119 Materials of Music I<br>MUS 120 Materials of Music II<br>MUS 121 Ear Training I<br>MUS 122 Ear Training II | 3<br>3<br>3<br>1<br>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<br>*MUS-PRV courses are extra fee courses | 2-4 |
| Upper-division music courses | 5 |
| Total | 20-22 |

# Course Offerings

**See page 53 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 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 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 103 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 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 1930's. 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 410 MUSIC COMPOSITION (2-0-2)(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 8 credits. PREREQ: PERM/INST.

**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 445 RECITAL (0-V-2).** Performance majors may elect to perform a solo recital for two credits prior to the required senior solo recital at any time subsequent to the freshman year. Graded pass/fail. PERM/INST/CHAIR.

**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. Graded 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 (MC) studies must secure the consent of the instructor prior to registration.

A entering student 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 BSU 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.
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, 306-306G 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 110, 310 VOCAL ENSEMBLE (0-2-1)(F/S).** Designed to promote participation in and repertoire knowledge of small vocal ensembles. Literature includes music of all periods. Public performances given each semester. PREREQ: 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 125, 325 BRASS ENSEMBLE (0-2-1)(F/S).** A course designed to promote playing in and increasing repertoire knowledge for small brass ensembles. A public performance is required each semester. PREREQ: PERM/INST.

**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 130, 330 WOODWIND ENSEMBLE (0-2-1)(F/S).** A course designed to promote playing in and increasing repertoire knowledge of small woodwind ensembles. A public performance is required each semester.

**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, 350-350G 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 160, 360 STRING ENSEMBLE (0-2-1)(F/S).** A course designed to promote playing in and increasing repertoire knowledge for small string ensembles. A public performance is required each semester. PREREQ: PERM/INST.

**MUS-ENS 167, 367 GUITAR ENSEMBLE (0-2-1)(F/S).** A course designed to promote playing in and repertoire knowledge of ensembles of or 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 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)(Formerly MUS 133).** 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)(Formerly MUS 143).** 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 103 ELEMENTS OF MUSIC (2-0-2)(F/S).** Intended primarily for music majors, this course is open to anyone interested in acquiring knowledge in or upgrading their understanding of fundamental structures of music notation, scales, intervals, rhythmic patterns, etc. The course is designed for students aspiring to be music majors but lacking the necessary fundamentals background.

**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)(Offered odd-numbered 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 223 BASIC FORM AND ANALYSIS (2-0-2)(F/S).** A study of the basic and elementary formal structures of music from both design and harmonic structure viewpoints. Analysis of the motif, phrase, period and simpler binary and ternary forms. An overview of larger common forms: sonata, variation, rondo, etc. PREREQ: MUS 219 or equivalent or PERM/INST.

**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.

**MUS 266 WOODWIND TECHNIQUES AND METHODS (1-2-2)(F).** Primarily for music education majors, this course deals with methods and materials of teaching the various woodwind instruments in the public schools, while providing the student with a basic pedagogical technique on two or more of the woodwind instruments.

**MUS 271 ORIENTATION TO MUSIC EDUCATION (1-1-1)(F/S).** A look at school music programs to include all levels, primary through secondary programs. Lab period devoted to visitation in public schools.

**Upper Division**

**MUS 313, 314 KEYBOARD HARMONY AND BASIC IMPROVISATION (2-0-2)(F/S) (Alternate years, beginning fall semester, even-numbered years).** Keyboard application of basic harmonic principles: playing and harmonizing figured and unfigured basses and melodies, modulation, transposition, accompanying familiar tunes, and beginning improvisation. PREREQ: MUS 120-122 and a grade of C or better in MUS 213 Functional Piano, or Piano Proficiency passed, or 200-level private piano study.

**MUS 323 CHORAL ARRANGING (1-1-1)(F)(Alternate, even-numbered 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 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 ORCHESTRAL FLUTE REPERTOIRE I (1-0-1)(F).** Performance of flute/piccolo parts and excerpts from orchestral literature most commonly requested in auditions for orchestral job openings. Designed for advanced flutists. PREREQ: PERM/INST.

**MUS 350 ORCHESTRAL FLUTE REPERTOIRE II (1-0-1)(S).** A continuation of Orchestral Flute Repertoire I with additional and/or more advanced orchestral flute literature. PREREQ: MUS 349 or equivalent or 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) (Offered odd-numbered 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 368 PERCUSSION TECHNIQUES AND METHODS (1-2-2)(S).** Primarily for music education majors, this course deals with methods and materials of teaching the various percussion instruments in the public schools, while providing the student with basic performing techniques.

**MUS 369 BRASS TECHNIQUES AND METHODS (1-2-2)(F/S).** Primarily for music education majors, this course deals with methods and materials of teaching the various brass instruments in the public schools, while providing the student with a basic performing technique on two or more of the brass instruments.

**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 (2-1-2)(F).** For music majors. Includes special methods, materials and teaching techniques for the elementary classroom music program. PREREQ: MUS 271 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 385 CHORAL METHODS AND MATERIALS (1-2-2)(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. PREREQ: Successful completion of Music Education Interview.

**MUS 387 BAND AND ORCHESTRA METHODS AND MATERIALS (1-2-2)(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. PREREQ: MUS 271 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).** 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 410-410G ADVANCED FORM AND ANALYSIS (2-0-2)(F/S).** Analysis of harmonic and formal structures of the larger binary and ternary forms; the sonata, the symphony, the concerto, Baroque forms. PREREQ: MUS 223 or equivalent or PERM/INST.

**MUS 423-423G SIXTEENTH CENTURY COUNTERPOINT (3-0-3)(F)(Offered odd-numbered 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)(F)(Offered even-numbered years).** 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 or equivalent.

**MUS 454-454G SECONDARY GENERAL MUSIC METHODS (2-0-2)(S)(Offered alternate, odd-numbered 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)(Offered odd-numbered 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)(Offered even-numbered 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)(Offered alternate, even-numbered 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 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

Science/Nursing Building, Room 107 Telephone 208 426-4143
http://nursing.boisestate.edu Fax 208 426-1370
e-mail: jeichel@boisestate.edu

*Interim Chair and Associate Professor:* Pamela Springer. *Professor:* Taylor. *Associate Professors:* Brudenell, Gehrke, Otterness, Payne, Straub. *Assistant Professors:* Adams, Allerton, Carey, Clark, Downey, Hereford, Leahy, Mixon, Pomerance, Satterwhite, Schrader. *Senior Instructor:* Towle. *Instructors:* Barr, Decker, Hilvers, Macy. *Interim Instructors:* Carnosso, Cox, Dillon, Reavy, Rettig, Shaw, Stoffels.

## Degrees Offered

- A.T.C. in Practical Nursing
- A.S. in Nursing
- B.S. in Nursing

## Department Statement

The department of nursing is one of four departments in the College of Health Sciences. The department offers bachelor of science and associate of science programs in nursing as well as a Practical Nursing program. All programs are approved by the Idaho State Board of Nursing. The BS and AS programs are accredited by the National League for Nursing Accreditation Commission (NLNAC), 61 Broadway, New York, NY 10006, 212 363-5555.

The 4-year bachelor of science program prepares students to take the NCLEX-RN Exam to practice as a professional nurse. It also offers an Advanced Placement Option for Registered Nurses who wish to pursue a bachelor of science degree with a major in nursing.

The associate of science program in nursing leads to an associate degree and eligibility to take the NCLEX-RN Exam. Licensed Practical Nurses seeking to become Registered Nurses may apply for advanced placement in the associate of science program.

The practical nursing program is a certificate program providing knowledge and skills needed to take the licensure examination to become a Licensed Practical Nurse (NCLEX-PN).

**Beginning in Fall 2002,** the Department of Nursing will begin admitting students to the new ONE FRONT DOOR nursing curriculum. The new program will replace the three current programs listed in this section of the catalog. The ONE FRONT DOOR program will be a single nursing education program that has three exit options for students. These are: an Advanced Technical Certificate (A.T.C.) for those desiring to license as a Practical Nurse, and Associate of Science (A.S.) degree and a Bachelor of Science (B.S.) degree for those desiring licensure as a professional registered nurse. A key feature of this new ONE FRONT DOOR program is that students choosing any of the exit options will take many of the same courses thus facilitating return should students decide to seek another degree.

The new nursing course descriptions will be included in the 2002-2003 undergraduate catalog. Contact the Department of Nursing at the above telephone, FAX, e-mail, or web site to obtain more information on this exciting new education program.

**Nursing**
**One Front Door**
**(First Class Fall, 2002)**

| Course Number and Title | Credits |
|---|---|
| **Advanced Technical Certificate in Practical Nursing Option** | |
| ENGL 101, 102 English Composition | 6 |
| **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 |

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*Nursing — One Front Door (continued)*

| | |
|---|---|
| **Area III** | |
| BIOL 227-228 Human Anatomy and Physiology | 8 |
| HLTHST 170 Concepts of Nutrition | 1 |
| HLTHST 270 Nutrition Across the Lifespan | 1 |
| NURS 100 Concepts of Nursing and Health Care | 2 |
| NURS 105 Interdisciplinary Patient Care Skills Lab | 2 |
| NURS 106 Mental Health for Practical Nursing (A.T.C.-PN only) | 1 |
| NURS 120 Professional Concepts of Community Based Nursing Practice | 1 |
| NURS 122 Health Assessment and Promotion | 2 |
| NURS 123 Health Assessment and Promotion Lab | 1 |
| NURS 126 Science for Practical Nursing (A.T.C.-PN only) | 1 |
| NURS 127 Introduction to Clinical Practice Lab (A.T.C.-PN only) | 2 |
| NURS 200 Professional Concepts for Care Delivery I | 1 |
| NURS 202 Health Across the Life Span | 3 |
| NURS 204 Nursing Therapeutics I | 2 |
| NURS 205 Nursing Therapeutics Across the Life Span Lab | 3 |
| NURS 220 Professional Concepts for Care Delivery II | 1 |
| NURS 222 Alterations in Health | 3 |
| NURS 224 Nursing Therapeutics II | 4 |
| NURS 225 Nursing Therapeutics II Lab | 4 |
| NURS 227 Preceptorship for the Practical Nurse (A.T.C.-PN only) | 2 |
| Total | 57 |
| **Associate of Science in Nursing Option** | |
| Credits from A.T.C., PN Option | 51 |
| **Area II** | |
| PSYC 101 General Psychology | 3 |
| **Area III** | |
| Chemistry course with lab, CHEM 101 or higher | 4 |
| BIOL 205 Microbiology | 4 |
| NURS 300 Professional Concepts of Care Management I | 1 |
| NURS 302 Chronic Alterations in Health | 3 |
| NURS 303 Chronic Alterations in Health Lab | 4 |
| NURS 305 Managing Client Care: Preceptorship | 2 |
| Total | 72 |
| **Bachelor of Science in Nursing Option** | |
| Credits from A.S., Nursing Option | 72 |
| **Area I — see page 40 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 40 for list of approved courses** | |
| Area II core course in any field | 3 |
| **Area III — see page 40 for list of approved courses** | |
| Area III core course in mathematics | 3-5 |
| **Area II-III** | |
| Area II-III designated elective as needed | 1 |
| NURS 320 Professional Concepts of Care Management II | 1 |
| NURS 322 Community Based Case Management | 3 |
| NURS 323 Community Based Case Management Lab | 3 |
| NURS 392 Introduction to Nursing Research | 3 |
| NURS 400 Professional Development Seminar | 1 |
| NURS 402 Nursing Leadership and Management in Health Care | 3 |
| NURS 404 Professional Practice Seminar | 1 |
| NURS 405 Professional Practice Internship | 4 |
| NURS 410 Nursing and Policy Making | 2 |
| NURS 412 Public Health Nursing | 2 |
| NURS 413 Public Health Nursing Lab | 2 |
| Nursing elective courses | 4 |
| Statistics course | 3-4 |
| Electives to total 128 credits | 0-3 |
| Total | 128 |

# Special Lab Fees

Students who are admitted to the associate of science, bachelor of science, or practical nursing programs pay an additional laboratory fee at the time of enrollment for some clinical courses. See the *Directory 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 and patches, 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.

# Degree Requirements

## Bachelor of Science Degree

The Bachelor of Science Program in Nursing offers two options for students pursuing the bachelor of science degree in nursing. One option is for students who are seeking to become RNs, and the second option is advanced placement for RNs with a diploma or associate of science degree. Both options are designed to prepare professional nurses to provide nursing care to patients/clients in hospitals, nursing homes, and a variety of community health settings. The curriculum also provides a foundation for graduate study in nursing. The program is approved by the Idaho Board of Nursing and accredited by the National League for Nursing Accreditation Commission (NLNAC), 61 Broadway, New York, NY 10006, 212-363-5555. The graduate is eligible to write the national Council Licensure Examination to become a Registered Nurse (RN).

## Option for Students Seeking to Become RNs

Students preparing to enter the Bachelor of Science Program in Nursing must apply and be accepted for admission to the program. To apply, students must be currently enrolled or have successfully completed all of the following courses:

BIOL 227-228, Human Anatomy and Physiology (or equivalent)
CHEM 101-102, College Chemistry (or equivalent)
ENGL 101, 102, English Composition (or equivalent)
HLTHST 101, Medical Terminology
PSYC 101, General Psychology
MATH 124, MATH 130 or MATH 143

The basic nursing program is composed of a year of pre-admission general education courses (listed above) and three years of nursing and general education courses. Contact the Nursing Advising Center (SN 107A) or call the department of nursing at 208 426-4143 for:

- admission criteria and application process
- application deadline
- bachelor of science nursing curriculum sequence

To continue in the program, students must complete all the courses listed for each year of the curriculum (copies available in the Nursing Advising Center) with at least a grade of C or Pass before beginning the next year's courses.

**The B.S., Nursing curriculum listed below is being phased out. Last date of admission will be Fall, 2002.**

**Nursing**
**Bachelor of Science**

| Course Number and Title | Credits |
|---|---|
| ENGL 101, 102 English Composition | 6 |
| **Area I — see page 40 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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*Nursing (continued)*

| | |
|---|---|
| **Area II — see page 40 for list of approved courses** | |
| PSYC 101 General Psychology | 3 |
| SOC 101 Introduction to Sociology | 3 |
| Area II core course in a third field | 3 |
| Area II core course in any field | 3 |
| **Area III — B.S., Nursing** | |
| Area III core course in mathematics | 3-5 |
| CHEM 101-102 Essentials of Chemistry and Labs **OR** | 8-9 |
| CHEM 111-112 College Chemistry and Labs | |
| BIOL 205 Microbiology | 4 |
| BIOL 227-228 Human Anatomy and Physiology | 8 |
| HLTHST 101 Medical Terminology | 3 |
| HLTHST 120 or CIS 104, 105 and 106 Computer course | 3 |
| HLTHST 207 Nutrition | 3 |
| HLTHST 300 Pathophysiology | 4 |
| HLTHST 306 Applied Pharmacotherapeutics | 3 |
| NURS-B 105 Interdisciplinary Patient Care Skills Lab | 2 |
| NURS-B 204 Introduction to Professional Nursing I | 1 |
| NURS-B 208 Health Assessment | 2 |
| NURS-B 209 Health Assessment Lab | 1 |
| NURS-B 210 Nursing and Health Promotion | 3 |
| NURS-B 211 Nursing and Health Promotion Lab | 2 |
| NURS-B 214 Introduction to Professional Nursing II | 1 |
| NURS-B 312 Nursing of the Childbearing Family | 2 |
| NURS-B 313 Nursing of the Childbearing Family Lab | 2 |
| NURS-B 314 Nursing in Health and Illness I | 4 |
| NURS-B 315 Nursing in Health and Illness I Lab | 3 |
| NURS-B 316 Mental Health/Illness Nursing | 2 |
| NURS-B 317 Mental Health/Illness Nursing Lab | 2 |
| NURS-B 318 Nursing in Health and Illness II | 4 |
| NURS-B 319 Nursing in Health and Illness II Lab | 3 |
| NURS-B 392 Introduction to Nursing Research | 3 |
| NURS-B 418 Community Health Nursing | 3 |
| NURS-B 419 Community Health Nursing Lab | 3 |
| NURS-B 434 Professional Issues | 3 |
| NURS-B 438 Nursing Leadership | 3 |
| NURS-B 439 Nursing Leadership Lab | 3 |
| Nursing elective courses | 4 |
| Statistics course | 3-4 |
| Total | 128-132 |

## Option for Licensed RN Students

The advanced placement option provides an opportunity for RNs to individualize educational plans to complete a baccalaureate degree with a major in nursing. RN applicants should contact the Bachelor of Science Program Office at 208 426-1768 for academic advisement, advanced placement examination, and detailed information on placement.

**The B.S., Nursing (Advanced Placement Option for RN's) curriculum listed below is being phased out. Last date of admission will be Fall, 2002.**

**Nursing**
**Bachelor of Science**
**(Advanced Placement Option for RN's)**

| Course Number and Title | Credits |
|---|---|
| ENGL 101, 102 English Composition | 6 |
| **Area I — see page 40 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 |

*— continued —*

| *Nursing (Advanced Placement Option) (continued)* | |
|---|---|
| **Area II — see page 40 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 40 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 courses | 9 |
| *HLTHST 300 Pathophysiology | 4 |
| *HLTHST 306 Applied Pharmacotherapeutics | 3 |
| *NURS-B 300 Changing Professional Roles in Nursing | 2 |
| *NURS-B 392 Introduction to Nursing Research | 3 |
| NURS-B 418 Community Health Nursing | 3 |
| NURS-B 419 Community Health Nursing Lab | 3 |
| NURS-B 434 Professional Issues | 3 |
| NURS-B 438 Nursing Leadership | 3 |
| NURS-B 439 Nursing Leadership Lab | 3 |
| *Computer course | 3 |
| Nursing elective courses or Independent Study | 4 |
| *NLN Mobility Tests | 37 |
| *Statistics course | 3-4 |
| Electives to total 128 credits | 1-4 |
| Total | 128 |
| *NOTE: These courses must be successfully completed before your senior year. | |

# Course Offerings

**See page 53 for a definition of the course-numbering system.**

**NURS-B — NURSING**

**Lower Division**

**NURS-B 105 INTERDISCIPLINARY PATIENT CARE SKILLS (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: NURS-B 204, NURS-B 208, NURS-B 209.

**NURS-B 204 INTRODUCTION TO PROFESSIONAL NURSING I (1-0-1)(F).** Introduction to standards of care, nursing process, and theoretical formulations as basis for clinical decision-making and development of a nursing knowledge base. Includes historical development and criteria of professional nursing. PREREQ: Admission to nursing major. COREQ: NURS-B 105, NURS-B 208, NURS-B 209.

**NURS-B 208 HEALTH ASSESSMENT (2-0-2)(F).** The concepts of systems and development theory, health-illness continuum and health promotion provide a basis for the health assessment of individuals across the life span. The nursing process is used as a framework for organizing and communicating assessment data. PREREQ: Admission to nursing major. COREQ: NURS-B 105, NURS-B 204, and NURS-B 209.

**NURS-B 209 HEALTH ASSESSMENT LAB (0-3-1)(F).** Campus laboratory for NURS-B 208. (Pass/Fail). COREQ: NURS-B 105, NURS-B 204, and NURS-B 208.

**NURS-B 210 NURSING AND HEALTH PROMOTION (3-0-3)(S).** Theoretical basis for acquisition of interpersonal, affective, and psychomotor skills needed to maintain, promote, and restore health to persons of all ages. Uses nursing theories, nursing process, interaction, growth and development, teaching-learning principles, and health as a basis for beginning nursing practice. PREREQ: NURS-B 204, NURS-B 208, NURS-B 209, HLTHST 300, BIOL 205, HLTHST 207. COREQ: NURS-B 211, NURS-B 214.

**NURS-B 211 NURSING AND HEALTH PROMOTION LAB (0-6-2)(S).** Practical application of concepts and knowledge from NURS-B 210 and support courses to nursing care of clients with stable health patterns and health promotion needs. (Pass/Fail). PREREQ: NURS-B 204. COREQ: NURS-B 210, 214.

**NURS-B 214 INTRODUCTION TO PROFESSIONAL NURSING II (1-0-1)(S).** Introduction to standards of professional performance. Includes historical development and characteristics of professional nursing. PREREQ: NURS-B 204. COREQ: NURS-B 210, NURS-B 211.

**Upper Division**

**NURS-B 300 CHANGING PROFESSIONAL ROLES IN NURSING (2-0-2)(F/S).** Overview of concepts related to professional nursing. Focuses on the relationship of values, ethics, critical thinking and communication processes in the roles of the professional nurse. PREREQ: Must be a Registered Nurse.

**NURS-B 312 NURSING CARE OF THE CHILDBEARING FAMILY (2-0-2)(F/S).** Focus is on exploration of nursing and psychosocial theories and concepts relevant to the nursing care of the individual and family during the childbearing cycle. PREREQ: NURS-B 210. COREQ: NURS-B 313.

**NURS-B 313 NURSING CARE OF THE CHILDBEARING FAMILY LAB (0-6-2)(F/S).** Application of theory and concepts from NURS-B 312 in providing nursing care for the childbearing family. (Pass/Fail). COREQ: NURS-B 312.

**NURS-B 314 NURSING IN HEALTH AND ILLNESS I (4-0-4)(F).** Focuses on nursing knowledge and skills which use growth and development principles and the nursing process to restore and maintain health across the lifespan of individuals from diverse cultures, or to support them in deteriorating health. PREREQ: NURS-B 210, HLTHST 306. COREQ: NURS-B 315.

**NURS-B 315 NURSING IN HEALTH AND ILLNESS I LAB (0-9-3)(F).** Applies knowledge and skills from NURS-B 314 in providing care for persons experiencing health alterations in a variety of clinical settings. Application of the nursing process with an emphasis on care planning and implementation. (Pass/Fail). COREQ: NURS-B 314.

**NURS-B 316 MENTAL HEALTH/ILLNESS NURSING (2-0-2)(F/S).** Theoretical concepts of mental health promotion, group theory, and nursing management of major mental illnesses and selected other mental disorders using a stress adaptation framework. PREREQ: NURS-B 210. COREQ: NURS-B 317.

**NURS-B 317 MENTAL HEALTH/ILLNESS NURSING LAB (0-6-2)(F/S).** Application of theory from NURS-B 316 with emphasis on therapeutic communication in work with individuals and in groups. (Pass/Fail). COREQ: NURS-B 316.

**NURS-B 318 NURSING IN HEALTH AND ILLNESS ii (4-0-4)(S).** Builds on nursing knowledge and skills taught in NURS-B 314. PREREQ: NURS-B 314. COREQ: NURS-B 319.

**NURS-B 319 NURSING IN HEALTH AND ILLNESS ii LAB (0-9-3)(S).** Applies knowledge and skills taught in NURS-B 314, 315 and 318 in providing care for persons experiencing health alterations in a variety of clinical settings. Application of the nursing process with greater emphasis on evaluation. (Pass/Fail). COREQ: NURS-B 318.

**NURS-B 370 NURSING FOR HOLISTIC CARE (2-0-2).** Explores frameworks and professional roles in theory-based nursing for mind-body-spirit wellness and healing. Supervised practice in a variety of holistic therapeutic nursing interventions. (Pass/Fail). PREREQ: Nursing students, registered nurses, or PERM/INST.

**NURS-B 392 INTRODUCTION TO NURSING RESEARCH (3-0-3)(S/SU).** Research process as applied in health care research. Emphasis on defining researchable problems, conceptualizing research design, and analyzing steps in the research process. Critical review of research articles to evaluate findings for application to nursing practice. PREREQ: a college statistics courses.

**NURS-B 418 COMMUNITY HEALTH NURSING (3-0-3)(F/S).** Principles and concepts basic to community health nursing of individuals, families, groups, and communities. Major content areas include: roles and responsibilities of the community health nurse, home health care, epidemiology, community assessment, health promotion and maintenance, and health policy formulation. PREREQ: NURS-B 312, 316, 318, 392. COREQ: NURS-B 419.

**NURS-B 419 COMMUNITY HEALTH NURSING LAB (0-9-3)(F/S).** Application of community health nursing concepts to individuals, families, groups, and communities. (Pass/Fail). PREREQ: NURS-B 313, 317, 319. COREQ: NURS-B 418.

**NURS-B 434 PROFESSIONAL ISSUES IN NURSING (3-0-3)(F/S).** An analysis of contemporary professional nursing and its reciprocal interaction with current social, political, and economic issues. PREREQ: NURS-B 312, 316, 318, 392.

**NURS-B 438 NURSING LEADERSHIP (3-0-3)(F/S).** Principles and concepts of the role of the nurse as Leader/Manager. Concepts include allocation of human, financial, and material resources, and effective human relations in health care organizations. PREREQ: NURS-B 312, 316, 318, 392. COREQ: NURS-B 439.

**NURS-B 439 NURSING LEADERSHIP LAB (0-9-3)(F/S).** Application of principles and concepts from NURS-B 438 in various health care settings to include acute, long-term, and community health organizations. (Pass/Fail). PREREQ: NURS-B 313, 317, 319. COREQ: NURS-B 438.

**NURS-B 450 INTENSIVE CLINICAL NURSING ELECTIVE (0-12-4)(SU).** Management of multiple patients with support of qualified preceptors in selective clinical sites. Content includes application of medical/surgical/psychosocial concepts in a nursing practice setting. Pass/Fail. Offered intermittently. PREREQ: Sophomore standing in an accredited associate program or junior standing in an accredited baccalaureate program and the approval of the instructor.

**NURS-B 456 NURSING STRATEGIES IN HIGH RISK CHILDBEARING FAMILIES (2-0-2)(F/S)(Offered intermittently).** Concepts relative to childbearing families at risk for poor maternal/fetal outcomes. Nursing interventions and resources are presented with emphasis on supporting the family in the home or rural setting as well as acute and primary health care facilities. PREREQ: NURS-B 312, 313 or equivalent or PERM/INST.

**NURS-B 460 APPLICATIONS OF LEGAL AND ETHICAL CONCEPTS TO CONTEMPORARY NURSING PRACTICE (2-0-2)(F/S)(Offered intermittently).** Course provides current legal and ethical concepts and their application to contemporary nursing practice in a variety of institutional and community settings. Course enrollment limited to Registered Nurses, or to students enrolled in nursing programs preparing to write the Registered Nurse Examination.

**NURS-B 462 CARING FOR DIVERSE HIV/AIDS CLIENTS (2-0-2)(F/S).** Course deals with multiple issues facing nursing professionals as they learn to deal with the challenges of caring for HIV/AIDS clients. Students will confront their own feelings about diverse

HIV/AIDS groups and investigate the gamut of issues faced by the clients. Experiences with clients, social support systems, families, and other group/agencies involved in client care are scheduled. (Graded Pass/Fail.) PREREQ: Sophomore standing (B.S. program), freshman standing (A.S. program), or PERM/INST.

## Associate of Science Degree

The Associate of Science Program in Nursing prepares individuals to function at a beginning level in giving care to patients. Nursing courses include theory and clinical laboratory experiences, primarily in hospitals and other acute-care settings. In the clinical component of each nursing course, one credit hour represents three hours of clinical and/or campus laboratory time. During the first year, there is an average weekly number of 9 clinical practice hours per week, which may be scheduled days, afternoons, or evenings, between the hours of 6:30 a.m. and 11:30 p.m.

The program is approved by the Idaho Board of Nursing and accredited by the National League for Nursing Accreditation Commission (NLNAC), 61 Broadway, New York, NY 10006, 212 363-5555. The graduate is eligible to write the National Council Licensure Examination to become a Registered Nurse (RN).

The associate degree-prepared registered nurse (RN) practices primarily in formally organized health care agencies, providing direct care for individuals with identified health problems whose nursing needs fall within prescribed standards of care. The associate degree graduate is expected to seek guidance from supervisory personnel in making decisions concerning complex nursing situations and in making referrals to other health agencies.

The curriculum includes courses in general education as well as nursing. General education courses provide support knowledge for nursing courses. The nursing courses use the nursing process as a system of learning. Content is focused on the identified health needs of all individuals. A planned program of clinical practicum in health care agencies is the major learning experience in the application of theoretical content and in the development of clinical nursing skills.

The associate of science degree may be completed in five semesters. However, students' needs and goals may indicate a three-year approach to the program. Advising, therefore, is essential, and it is the student's responsibility to seek faculty assistance.

## Admission Requirements

Applicants must have regular admission status at Boise State University before being admitted to the associate of science nursing program. Applicants who have other than regular admission status at Boise State University should refer to this catalog or contact the Nursing Advisement Center for directions on how to achieve regular admission status.

The faculty of the associate of science in nursing program review the qualifications of applicants and select all students. The number of students that can be admitted to the program is limited.

The class is selected from qualified applicants. Students are selected based on a point system that gives points for GPA and the number of required general education courses completed (BIOL 205, BIOL 227, BIOL 228, CHEM 101, ENGL 101, ENGL 102, HLTHST 207, PSYC 101, SOC 101). Further information regarding selection criteria can be obtained from the Nursing Advising Center, SN 107A. Those applicants who wish to be part of the screening must submit completed applications by March 1 of the year of planned enrollment in nursing courses.

1. In order to qualify for admission, the student must meet one of the following criteria:
   A. Completion of BIOL 227 (Human Anatomy and Physiology) and ENGL 101 (English Composition) as application prerequisites. To be eligible for consideration, the applicant must have a GPA of 2.5 or above and a C or better in the above courses. Applicants who have completed more of the required general education courses are evaluated on the GPA in all those courses.
   **OR** for the student applying within one year of graduation from high school:
   B. Completion of two years of high school algebra or higher and three years of laboratory sciences, including human anatomy and physiology. These courses must have been passed with a GPA of 3.5 or higher.
2. Transfer students from other associate degree nursing programs and Licensed Practical Nurses (LPNs) who wish to challenge nursing courses should contact the department for specific entrance requirements.
3. Completed applications are reviewed after March 1, and the class is selected from qualified applicants by use of the point system described above. All college transcripts must be submitted in person to the nursing office in order to make applications complete. Those applicants selected will be notified in May.

The faculty of Boise State University is committed to equal opportunity for all students and does not discriminate on the basis of sex, race, color, religion, national origin, handicap, or veteran status.

Registered Nurse licenses are granted by the Idaho Board of Nursing to graduates of approved educational programs who successfully complete the National Council Licensure Examination.

"The Board of Nursing shall have the power to deny any application for license . . . upon determination that the person:

- made or caused to be made, a false, fraudulent, or forged statement in attempting to procure a license to practice nursing; or
- is convicted of a felony or any offense involving moral turpitude; or
- habitually uses alcoholic beverages or narcotic, hypnotic, or hallucinogenic drugs; or
- otherwise engages in conduct of character likely to deceive, defraud, or endanger patients or the public." (Section 54-1413 Idaho Nurse Practice Act. 1988, pp. 9-11.)

## Application Procedures

1. Apply for admission to BSU and the department of nursing, associate of science in nursing degree program. BSU application forms are available in the Administration Building, Room 101. Associate of Science Nursing program applications are available in the Science-Nursing Building, Room 107.
2. Submit to the department of nursing unofficial transcripts of all previous college work along with the department of nursing application. These documents must be received by the nursing department before March 1 if your application is to be reviewed. LPNs applying for advanced placement must see a nursing advisor before applying. Applications for LPN's are due in December.

Following acceptance into the associate of science program, all applicants must submit to the nursing department by July of each academic year:

1. The completed physical examination form provided by the department of nursing
2. Documentation of a negative PPD or a chest X-ray
3. Documented positive rubella and rubeola titres
4. Documentation of completion of a cardiopulmonary resuscitation course (including infant CPR)
5. Proof of medical insurance
6 Lab fee payable during registration (nonrefundable after class begins)

**The A.S., Nursing curriculum listed below is being phased out. Last date of admission will be Fall, 2002.**

**Nursing**
**Associate of Science**

| Course Number and Title | Credits |
|---|---|
| ENGL 101, 102 English Composition | 6 |
| PSYC 101 General Psychology<br>SOC 101 Introduction to Sociology | 3<br>3 |
| BIOL 227, 228 Human Anatomy and Physiology<br>CHEM 101 Essentials of Chemistry | 8<br>4 |
| BIOL 205 Microbiology | 4 |
| HLTHST 207 Nutrition | 3 |
| NURS-A 100 Fundamentals of Nursing I<br>NURS-A 102 Fundamentals of Nursing II<br>NURS-A 104 Clinical Concepts<br>NURS-A 105 Interdisciplinary Patient Care Skills Lab<br>NURS-A 108 Health Assessment<br>NURS-A 109 Health Assessment Lab<br>NURS-A 200 Nursing Intervention I | 3<br>7<br>1<br>2<br>2<br>1<br>9 |

*— continued —*

| *Nursing (Advanced Placement Option) (continued)* | |
|---|---|
| NURS-A 202 Nursing Intervention II | 8 |
| NURS-A 204 Managing Client Care | 1 |
| NURS-A 205 Managing Client Care: Preceptorship | 2 |
| Total | 67 |

## Course Offerings

**See page 53 for a definition of the course-numbering system.**

**NURS-A — NURSING**

**Lower Division**

**NURS-A 100 FUNDAMENTALS OF NURSING I (3-0-3)(F).** Introduces concepts to assist individuals of all ages to cope with change and progress towards wellness. Focuses on man's growth and development, well being, environmental interaction, the ability to cope with stress. PREREQ: Admission to the A.S. program. COREQ: NURS-A 104, NURS-A 105, NURS-A 108, NURS-A 109.

**NURS-A 102 FUNDAMENTALS OF NURSING II (3-12-7)(S).** Builds upon concepts presented in NURS-A 100. Focuses on concepts and methods to assist individuals' and families' adaptation to stressors of illness and surgery. Learning experiences assist student to implement nursing process and further develop psychomotor skills to help individuals of all ages progress toward wellness. PREREQ: NURS-A 100.

**NURS-A 104 CLINICAL CONCEPTS (1-0-1)(F).** Practical application of fundamental concepts with emphasis on nursing interventions, nursing process and the role of the Associate Degree Nurse in a variety health care settings. PREREQ: Admission to the A.S program. COREQ: NURS-A 100, NURS-A 105, NURS-A 108, NURS-A 109.

**NURS-A 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). PREREQ: Admission to the A.S program. COREQ: NURS-A 100, NURS-A 104, NURS-A 108, NURS-A 109.

**NURS-A 108 HEALTH ASSESSMENT (2-0-2)(F/S).** The concept of systems and developmental theory, health illness continuum and health promotion as a basis for health assessment of individuals across the life span. Nursing process is used as a framework for organizing and communicating assessment data. PREREQ: Admission to the A.S program. COREQ: NURS-A 100, NURS-A 104, NURS-A 105, NURS-A 109.

**NURS-A 109 HEALTH ASSESSMENT LAB (0-3-1)(F/S).** Campus laboratory for NURS-A 108. (Pass/Fail). PREREQ: Admission to the A.S program. COREQ: NURS-A 100, NURS-A 104, NURS-A 105, NURS-A 108.

**NURS-A 114 ORIENTATION TO ASSOCIATE DEGREE NURSING FOR ADVANCED PLACEMENT STUDENT (2-0-2)(S).** Designed to assist the student in transition from one role in nursing to another. Content focuses upon basic nursing roles and issues and challenge examinations for advanced placement. (Pass/Fail). PREREQ: PERM/INST, passing score on National League for Nursing Mobility Exam I.

**NURS-A 200 NURSING INTERVENTION I (4-15-9)(F).** Develop concepts presented in first year courses. Focuses on coping with changes in biopsychosocial health status of individuals and families from prenatal through late adulthood. Learning experiences utilize the nursing process to provide care for patients with complex health problems. PREREQ: NURS-A 102. Or for advanced placement students only: NURS-A 114, NURS-A 108, NURS-A 109 and completion of Intravenous Certification Class.

**NURS-A 202 NURSING INTERVENTION II (4-12-8)(S).** Continues development of concepts acquired in previous courses. Focuses on development of self-directed, flexible, and organized use of nursing process in providing care for individuals of all ages. Learning experiences emphasize patient education, psychodynamics, and management of multiple patients with complex problems. PREREQ: NURS-A 200 and BIOL 205. COREQ: NURS-A 204, NURS-A 205.

**NURS-A 204 MANAGING CLIENT CARE (1-0-1)(S).** Synthesis of knowledge acquired in previous courses. Focuses on concepts of client care management, time management working with the interdisciplinary team, the health care system and professional development. Offered in the first ten weeks of spring semester. PREREQ: NURS-A 200. COREQ: NURS-A 202, NURS-A 205.

**NURS-A 205 MANAGING CLIENT CARE: PRECEPTORSHIP (0-6-2)(S).** Clinical preceptorship with emphasis on socialization into the nursing profession, multiple client care management and application of clinical judgement skills. Offered in the last five weeks of spring semester. (Pass/Fail). PREREQ: NURS-A 200. COREQ: NURS-A 202, NURS-A 204.

# Practical Nursing (11-Month Program)

Leading to an advanced technical certificate, the Practical Nursing Program prepares individuals to provide care to patients under the supervision of a Registered Nurse, a Licensed Physician or a Licensed Dentist. Practical Nursing courses include theory and clinical experiences in area health care facilities which includes acute-care, long-term care, rehabilitation, and a variety of other health care agencies. There is an average of 35 hours a week in classroom or clinical experience which may be scheduled days, afternoon or evenings between the hours of 6:30 a.m. and 11:30 p.m.

The Practical Nursing Program may be completed in 11 months after admission to the program. The program is approved by the Idaho State Board of Nursing. Graduates are eligible to write the National Council Licensure Examination to become a licensed practical nurse (LPN).

## Admission Requirements

Applicants must meet all College of Applied Technology admission requirements. The faculty review the qualified applicants and select students. The number of students that can be admitted to the program is limited. Selection is based on GPA, high school and college courses completed, work experience, reference information and personal interview. Applicants who wish to be part of the screening must submit completed applications by the deadline dates published by the College of Applied Technology.

**The A.T.C., Practical Nursing curriculum listed below is being phased out. Last date of admission will be Fall, 2002.**

| Practical Nursing<br>Advanced Technical Certificate | |
|---|---|
| **Course Number and Title** | **Credits** |
| HLTHST 101 Medical Terminology | 3 |
| NURS-P 102 Anatomy and Physiology for Practical Nursing | 4 |
| NURS-P 105 Nutrition and Diet Therapy | 2 |
| NURS-P 107 Pharmacology for Practical Nursing | 3 |
| NURS-P 112 Maternal and Infant Clinical | 1 |
| NURS-P 113 Pediatric Clinical | 2 |
| NURS-P 115 Clinical Foundations | 3 |
| NURS-P 123 Human Growth and Development | 2 |
| NURS-P 124 Maternal and Infant Health | 2 |
| NURS-P 125 Pediatric Nursing | 2 |
| NURS-P 127 Introduction to Allied Health Occupations | 2 |
| NURS-P 128 Foundations of Nursing | 5 |
| NURS-P 129 Health and Wellness | 2 |
| NURS-P 130 Nursing Care of Adults I | 5 |
| NURS-P 131 Nursing Care of Adults Clinical I | 4 |
| NURS-P 140 Nursing Care of Adults II | 6 |
| NURS-P 141 Nursing Care of Adults Clinical II | 4 |
| NURS-P 150 Individual and Family Health | 2 |
| NURS-P 151 Individual and Family Health Clinical | 1 |
| Total | 55 |

## Course Offerings

**See page 53 for a definition of the course-numbering system.**

**NURS-P — PRACTICAL NURSING**

**NURS-P 102 ANATOMY AND PHYSIOLOGY FOR PRACTICAL NURSING (4-0-4).** A study of the normal structure and function of the body cells, tissues, organs and systems, including the interrelationship of body systems.

**NURS-P 105 NUTRITION AND DIET THERAPY (2-0-2).** An introduction to nutrition and identification of the body's nutritional needs in health and illness, including the study of diet therapy.

**NURS-P 107 PHARMACOLOGY FOR PRACTICAL NURSING (3-0-3).** A study of drug classification, modes of administration, and principles of mathematics essential to drug administration.

**NURS-P 112 MATERNAL AND INFANT CLINICAL (0-4-1).** Clinical experience for NURS-P 124.

**NURS-P 113 PEDIATRIC CLINICAL (0-8-2).** Clinical experience for NURS-P 125.

**NURS-P 115 CLINICAL FOUNDATIONS (0-12-3)(F/S).** Clinical application of the concepts presented in NURS-P 128. COREQ: NURS-P 128..

**NURS-P 118 PRACTICAL NURSING SPECIAL THEORY (V-V-1 to 10).** Designed to provide the opportunity for study of a specific unit of theory. The topic offered will be selected on the basis of an evaluation of needs of the individual. PREREQ: PERM/DEPT.

**NURS-P 119 PRACTICAL NURSING SPECIAL CLINICAL (V-V-1 to 10).** Designed to provide the opportunity for specific clinical experience. The clinical offered will be selected on the basis of an evaluation of needs of the individual. PREREQ: PERM/DEPT.

**NURS-P 123 HUMAN GROWTH AND DEVELOPMENT (2-0-2)(S/SU).** A study of the physical, psychological, social and emotional development of diverse populations across a life span.

**NURS-P 124 MATERNAL AND INFANT HEALTH (2-0-2)(S/SU).** A study of pregnancy, labor, delivery, post partum care and newborn care among diverse populations.

**NURS-P 125 PEDIATRIC NURSING (2-0-2).** A study of health, diseases and disorders of children.

**NURS-P 127 INTRODUCTION TO ALLIED HEALTH OCCUPATIONS (2-0-2)(F/S).** Introduces careers in health care including characteristics of health care personnel; personal assessment as a health care worker; levels of education, certification and licensing requirements for various occupations; medical law and ethics; employment responsibilities; legislative and economic influences in the delivery of health care services..

**NURS-P 128 FOUNDATIONS OF NURSING (3-4-5)(F/S).** Activities and procedures basic to patient care, concepts of infection control, and sign and symptoms of illness. Successful completion of this course will allow student to apply for Certified Nursing Assistant registration COREQ: NURS-P 115, HLTHST 101.

**NURS-P 129 HEALTH AND WELLNESS (2-0-2)(F/S).** Focuses on personal, family, and community wellness, including health seeking behaviors, prevention of illness and disability, and cultural influences on health practices.

**NURS-P 130 NURSING CARE OF ADULTS I (5-0-5)(S/SU).** First semester of a two-semester sequence focusing on the biopsychosocial aspects involved in providing nursing for adult clients with well-defined health problems. Includes introduction to nursing process. COREQ: NURS-P 131.

**NURS-P 131 NURSING CARE OF ADULTS CLINICAL I (0-16-4)(S/SU).** Clinical application of the concepts presented in NURS-P 130. COREQ: NURS-P 130.

**NURS-P 140 NURSING CARE OF ADULTS II (6-0-6)(F/SU).** Second semester of a two-semester sequence providing the biopsychosocial aspects involved in providing nursing for adult clients with well defined health problems. Continuing the use of the nursing process, students develop knowledge and skills to provide nursing care to adults with complex health problems. COREQ: NURS-P 141.

**NURS-P 141 NURSING CARE OF ADULTS CLINICAL II (0-16-4)(F/SU).** Clinical application of concepts presented in NURS-P 140. COREQ: NURS-P 140.

**NURS-P 150 INDIVIDUAL AND FAMILY HEALTH (2-0-2)(F/SU).** A brief overview of the health needs of diverse groups from the perspective of the individual and the family, to include an introduction to the changing roles of nurses in the expanding health care settings as they work to meet these needs. COREQ: NURS-P 151.

**NURS-P 151 INDIVIDUAL AND FAMILY HEALTH CLINICAL (0-4-1)(F/SU).** Clinical application of concepts presented in NURS-P 150. COREQ: NURS-P 150.

### Occupational Therapy, Pre-Professional Program — see Department of Health Studies

### Optometry, Pre-Professional Program — see Department of Health Studies

### Pharmacy, Pre-Professional program — see Department of Health Studies

# Department of Philosophy

1021 Lincoln Hall, Room 208 Telephone 208 426-3304
e-mail: bcollier@boisestate.edu Fax 208 426-4332

*Chair and Professor:* Andrew Schoedinger. *Professor:* Harbison. *Associate Professor:* Cortens. *Assistant Professor:* Roark. *Adjunct Professor:* Pearson.

## 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 30 hours of philosophy credit, 21 of which are specifically required courses and 9 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.

**Philosophy**
**Bachelor of Arts**

| Course Number and Title | Credits |
|---|---|
| ENGL 101, 102 English Composition | 6 |
| **Area I — see page 40 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 40 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 40 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 |
| PHIL 211 Ethics | 3 |
| PHIL 305 Ancient Philosophy | 3 |
| PHIL 309 Modern Philosophy | 3 |
| PHIL 413 Analytic Philosophy | 3 |
| PHIL 433 Metaphysics **OR** PHIL 435 Epistemology | 3 |
| Upper-division Philosophy electives | 9 |
| Upper-division electives to total 40 credits | 19 |
| 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 53 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)(Formerly PHIL 221).** 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)(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.

**PHIL 221 ORIENTAL PHILOSOPHY (3-0-3)(S)(Alternate years)(Formerly PHIL 201).** An examination of the philosophical teachings of the great oriental thinkers through a study of classical texts selected from the traditions of Hinduism, Confucianism, Taoism, and Buddhism.

**PHIL 231 PHILOSOPHY OF RELIGION (3-0-3)(F)(Alternate years).** An introduction to 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.

**Upper Division**

**PHIL 304 SYMBOLIC LOGIC (3-0-3)(S)(Alternate years).** 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 PHILOSOPHY (3-0-3)(F)(Alternate years).** 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)(S)(Alternate years).** A survey of major developments in Western philosophy from St. Augustine to Nicholas of Cusa with emphasis on selected figures. PREREQ: PHIL 101.

**PHIL 309 MODERN PHILOSOPHY (3-0-3)(F)(Alternate years).** A survey of developments in Western philosophy from Descartes to Kant with emphasis on selected figures. PREREQ: PHIL 101.

**PHIL 315 PHENOMENOLOGY AND EXISTENTIALISM (3-0-3)(S)(Alternate years).** 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 337 AESTHETICS (3-0-3)(F)(Alternate years).** A course in 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)(S)(Alternate years).** 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)(F/S)(Offered on demand).** 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)(Alternate years).** 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 PHIL 201.

**PHIL 433 METAPHYSICS (3-0-3)(F)(Alternate years).** An investigation of basic problems about the nature of reality. Possible topics include personal identity, the nature of mind, freedom and determinism, the nature of causation, and the problem of universals. PREREQ: PHIL 101.

**PHIL 435 EPISTEMOLOGY (3-0-3)(F)(Alternate years).** 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 PART I WESTERN POLITICAL THEORY (3-0-3)(F)(Alternate years).** Development of political philosophy from Socrates to Machiavelli. This course may be taken for either PHIL or POLS credit, but not both.

**PHIL 442 PART II WESTERN POLITICAL THEORY (3-0-3)(S)(Alternate years).** Development of political thought since Machiavelli. PREREQ: POLS 441. This course may be taken for either PHIL or POLS credit, but not both.

**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.

## Physical Education — see Department of Kinesiology

## Physical Therapy, Pre-Professional program — see Department of Health Studies

## Physician Assistant, Pre-Professional program — see Department of Health Studies

# Department of Physics

Multipurpose Classroom Facility, Room 420 Telephone 208 426-3775
http://www.boisestate.edu/physics Fax 208 426-4330
e-mail: bblackwe@boisestate.edu

*Chair and Professor:* Robert A. Luke. *Professors:* Dykstra, Reimann, Smith. *Associate Professor:* Hanna. *Assistant Professor:* Lamelas.

## 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 and some independent study in quantum physics 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 40 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 40 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, 112 College Chemistry | 9 |
| MATH 170, 171 Calculus I and Lab | 5 |
| 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: | 4 |
| 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 | |
| PHYS 211, 211L Mechanics, Waves, and Heat and Lab | 5 |
| PHYS 212, 212L Electricity, Magnetism, and Optics and Lab | 5 |
| PHYS 225 Intermediate Applied Programming | 2 |
| PHYS 301 Analog Electronics | 4 |
| PHYS 304 Transducers | 3 |
| PHYS 309, 310 Introduction to Modern Physics and Lab | 4 |
| PHYS 311 Modern Physics | 3 |
| PHYS 332, 333 Optics | 6 |
| PHYS 334 Optics Lab | 1 |
| PHYS 341 Mechanics | 4 |
| PHYS 381, 382 Electromagnetic Theory | 6 |
| PHYS 432 Thermal Physics | 3 |
| PHYS 481 Senior Lab | 3 |
| PHYS 499 Seminar | 1 |
| Electives to total 128 credits | 18 |
| Total | 128 |

## Physics, Secondary Education Bachelor of Science

| Course Number and Title | Credits |
|---|---|
| ENGL 101, 102 English Composition | 6 |
| **Area I — see page 40 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 40 for list of approved courses** | |
| EDUC 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 General Biology I | 4 |
| BIOL 192 General Biology II | 4 |
| CHEM 111, 112 College Chemistry | 9 |
| EDUC 202 Educational Technology – Classroom Applications | 3 |
| EDUC 301 Teaching: Experience I | 1 |
| EDUC 302 Learning and Instruction | 4 |
| EDUC 350 Teaching Students with Exceptional Needs at the Secondary Level | 3 |
| EDUC 401 Professional Year - Teaching Experience II | 2 |
| EDUC 402 Content Literacy for Secondary Students | 3 |
| EDUC 404 Teaching Secondary Science | 3 |
| Teaching Experience III/IV | 16 |
| NOTE: Completion of all requirements for graduation with a secondary education option may require more than 128 credit hours. See "Teacher Education" for more information. | |
| MATH 170, 171 Calculus I and Lab | 5 |
| MATH 175 Calculus II | 4 |
| MATH 275 Multivariable and Vector Calculus | 4 |
| MATH 333 Differential Equations with Matrix Theory | 4 |
| PHYS 105 Introduction to Descriptive Astronomy | 4 |
| PHYS 211, 211L and Mechanics, Waves, and Heat Lecture and Lab | 5 |
| PHYS 212, 212L Electricity, Magnetism, and Optics Lecture and Lab | 5 |
| PHYS 309 Introduction to Modern Physics | 3 |
| PHYS 310 Introduction to Modern Physics Lab | 1 |
| PHYS 311, Modern Physics | 3 |
| PHYS 332, 333 Optics | 6 |
| PHYS 334 Optics Lab | 1 |
| PHYS 481 Senior Lab | 3 |
| Computer programming course, such as COMPSCI 125 or ENGR 130 | 2-5 |
| Possible earth science elective | 4 |
| Total | 133-139 |

## Physics Minor

| Course Number and Title | Credits |
|---|---|
| *PHYS 211, 211L Mechanics, Waves, and Heat Lecture and Lab | 5 |
| PHYS 212, 212L Electricity, Magnetism, and Optics Lecture and Lab | 5 |
| *PHYS 309, 310 Introduction to Modern Physics and Lab | 4 |
| *PHYS 311 Modern Physics | 3 |
| One of the following | 3-4 |
| *PHYS 301 Analog Electronics Lab | |
| *PHYS 332, 333, 334 Optics | |
| *PHYS 341 Mechanics | |
| *PHYS 381 Electromagnetic Theory | |
| *PHYS 422 Advanced Topics | |
| *PHYS 432 Thermal Physics | |
| *Math or other prerequisite | |
| Total | 20-21 |

# Course Offerings

**See page 53 for a definition of the course-numbering system.**

**PHYS — PHYSICS**

**Lower Division**

**PHYS 100 FOUNDATIONS OF PHYSICAL SCIENCE (3-2-4)(Area III)(Formerly PHYSCI 100).** Selected concepts of matter and energy that are widely applicable toward understanding our physical environment. A one-semester course for nonscience majors.

**PHYS 105 INTRODUCTION TO DESCRIPTIVE ASTRONOMY (3-2-4)(F/S)(Area III).** A study of galaxies, stars and planets and their physical relationships, beginning with our own solar system and moving outward. Several scheduled evening viewing sessions and planetarium visits are required. A one-semester course for nonscience majors.

**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)(Formerly PHYS 101, PHYS 102).** 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 115 CULTURAL APPROACH TO PHYSICS (3-3-4).** Designed for liberal arts students. Students should gain an appreciation for the basic ideas in physics and how these ideas have contributed to the development of western culture by their influence on philosophy, religion and technology.

**PHYS 207 INTRODUCTION TO BIOPHYSICS (3-3-4)(S).** A course relating physical principles to biological applications. Lectures stress concepts of atomic physics, basic electricity, energetics, heat, and optics. The variety of instruments normally found in biological laboratories are used in lab to study biological systems. PREREQ: MATH 147 or MATH 108.

**PHYS 211 MECHANICS, WAVES AND HEAT (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, MATH 171. COREQ: PHYS 211L, MATH 175.

**PHYS 211L MECHANICS, WAVES AND HEAT LAB (0-3-1)(F/S)(Area III) (Formerly PHYS 212).** Lab to be taken with PHYS 211. Basic experiments in mechanics, wave motion, and heat. COREQ: PHYS 211.

**PHYS 212 ELECTRICITY, MAGNETISM AND OPTICS (4-1-4)(F/S)(Area III) (Formerly PHYS 213).** Coulombs law, fields, potential, magnetism, inducted emf, simple circuits, geometrical optics, interference, diffraction, and polarization. PREREQ: PHYS 211, MATH 175. COREQ: PHYS 212L.

**PHYS 212L ELECTRICITY, MAGNETISM AND OPTICS LAB (0-3-1)(F/S)(Area III) (Formerly PHYS 214).** Lab to be taken concurrently with PHYS 212. Basic experiments in electricity, magnetism, and optics. COREQ: PHYS 212.

**PHYS 225 INTERMEDIATE APPLIED PROGRAMMING (2-0-2)(S).** Science and engineering computer application with emphasis on procedural and object-oriented programming including graphics. An extensive individual project is required. PREREQ: Computer programming experience. COREQ: MATH 175 or MATH 160.

**Upper Division**

**PHYS 301 ANALOG ELECTRONICS (2-6-4)(F).** An introduction to basic electronic test instrumentation and to some of the more common discrete semiconductor devices and integrated circuits. Included are diodes, silicon control 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 (1-6-3)(S).** 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, thermcouples, thermistors, Hall Effect devices, strain gauges, and piezoresistive elements. The IEEE-488 Bus and BUS Controller will be introduced and used throughout the course for data acquisition from the transducers. PREREQ: PHYS 225 and PHYS 301.

**PHYS 309 INTRODUCTORY MODERN PHYSICS (3-0-3)(S).** An introduction including wave motion with resonances, the Maxwell distribution, and the special theory of relativity, plus atomic, molecular, solid state, nuclear, and elementary particle physics. 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 310. Experiments with resonances and basic modern physics including some computer simulations. PREREQ: PHYS 212, MATH 275. COREQ: PHYS 309.

**PHYS 311 MODERN PHYSICS (3-0-3)(F/S).** Basic ideas and statistical methods of elementary quantum mechanics with applications to atomic, molecular, solid state, nuclear and elementary particle physics. PREREQ: MATH 333 and either PHYS 309 or PERM/INST.

**PHYS 312 MODERN PHYSICS (3-0-3)(F/S)(Offered on demand).** More detail on the topics covered in PHYS 311. Will emphasize nuclear and elementary particle physics. PREREQ: PHYS 311.

**PHYS 332-333 OPTICS (3-0-3)(F,S).** An upper-division course in geometrical and physical optics to include basics of electromagnetic theory, optical systems (including stops and pupils, lens aberrations, thick lenses, and fiber optics), polarization, interference, diffraction, Fourier optics, lasers, and holography. PREREQ: PHYS 212, MATH 333. COREQ: for PHYS 333 is PHYS 334.

**PHYS 334 OPTICS LABORATORY (0-3-1)(S).** Laboratory to be taken concurrently with PHYS 333. Experiments in optics to include optical systems, thick lenses, interference, diffraction, polarization, Fourier optics, image processing, and holography. COREQ: PHYS 333.

**PHYS 341 MECHANICS (4-0-4)(F/S).** 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 (EE 390)–PHYS 382 ELECTROMAGNETIC THEORY (3-0-3)(F-S).** 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 PHYS or EE credit, but not both. PREREQ: MATH 275, MATH 333, PHYS 212.

**PHYS 422 ADVANCED TOPICS (3-0-3)(F/S)(Offered on demand).** Selected topics from the major fields of physics such as astrophysics, nuclear, solid state, solar applications, biophysics, or medical physics. PREREQ: Upper-division standing and PERM/INST.

**PHYS 432 THERMAL PHYSICS (3-0-3)(S).** 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: PHYS 212, MATH 333.

**PHYS 481 SENIOR LAB (1-6-3)(F).** A senior laboratory course designed to acquaint the student with concepts of modern physics, laboratory techniques, and measurements. PREREQ: PHYS 311.

**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 499 PHYSICS SEMINAR (1-0-1)(S).** Individual reports on selected topics. PREREQ: Senior status.

# Department of Political Science

Public Affairs and Art West Building, Room 127 Telephone 208 426-1458
http://polisci.boisestate.edu/ Fax 208 426-4370
e-mail: ttrofas@boisestate.edu

*Chair and Associate Professor:* Leslie Alm. *Professors:* Donoghue, Freemuth, Kinney, Moncrief, Raymond. *Associate Professors:* Patton, Sallie, Weatherby, Witt. *Assistant Professors:* Burkhart, Fredericksen, Lochner, Yenor.

## Degrees Offered

- B.A. and B.S. in Political Science (with emphases areas in American government, international relations, public law and political philosophy, and public administration.)
- B.A. and B.S. in Political Science, Social Science, Secondary Education
- Minor in Political Science
- 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.

### 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, Secretary of State and Lieutenant Governor; as well as with lobbyists, state institutions, interest groups, city government, legislature, 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.

## 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 40 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 40 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 40 for list of approved courses** | |
| Area III core course in mathematics (must be 4 or more credits) | 4-5 |
| 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 | 4 |
| POLS 398 Advanced Political Science Methods | 4 |
| Upper-division political science elective courses | 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 Emphasis** | |
| POLS 301 American Political Parties and Interest Groups | |
| POLS 302 Public Opinion and Voting Behavior | |
| POLS 308 Urban Politics | |
| POLS 309 American Chief Executive | |
| POLS 312 Legislative Behavior | |
| POLS 320 American Policy Process | |
| POLS 331 American Political Theory | |
| POLS 340 Environmental Politics | |
| POLS 351 Constitutional Law | |
| POLS 352 Civil Liberties | |
| POLS 355 Law, Politics, and Society | |
| POLS 381 American Political Economy | |
| POLS 469 Intergovernmental Relations | |

*— continued —*

| *Political Science (continued)* | |
|---|---|
| **International Relations Emphasis** | |
| POLS 311 Comparative Foreign Policy | |
| POLS 321 Introduction to Comparative Politics | |
| POLS 324 Politics in Russia and Eastern Europe | |
| POLS 327 Canadian Politics | |
| POLS 328 Politics in Japan | |
| POLS 329 Politics of Industrialized Nations | |
| POLS 333 Comparative Government and Politics of Developing Nations | |
| POLS 335 United States Foreign Policy | |
| POLS 421 International Law and Organization | |
| POLS 429 International Political Economy | |
| **Public Law and Political Philosophy Emphasis** | |
| POLS 331 American Political Theory | |
| POLS 351 Constitutional Law | |
| POLS 352 Civil Liberties | |
| POLS 355 Law, Politics, and Society | |
| POLS 421 International Law and Organization | |
| POLS 441 Western Political Theory I | |
| POLS 442 Western Political Theory II | |
| POLS 445 Philosophy of Law | |
| POLS 467 Administrative Law | |
| **Public Administration Emphasis** | |
| POLS 303 Introduction to Public Administration | |
| POLS 308 Urban Politics | |
| POLS 309 American Chief Executive | |
| POLS 310 Public Finance | |
| POLS 320 American Policy Process | |
| POLS 467 Administrative Law | |
| POLS 469 Intergovernmental Relations | |
| POLS 487 Organizational Theory and Bureaucratic Structure | |
| Upper-division electives to total 40 credits | 9 |
| Electives to total 128 credits | 36 |
| Total | 128 |

The social science, secondary education emphasis programs are cooperative, multidisciplinary programs involving the departments of anthropology, 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.

## 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 40 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 |

*— continued —*

| *Political Science, Social Science, Secondary Education Emphasis (continued)* | |
|---|---|
| **Area II — see page 40 for list of approved courses** | |
| EDUC 201 Foundations of Education | 3 |
| POLS 101 American National Government | 3 |
| POLS 141 Contemporary Political Ideologies | 3 |
| Area II core course in history | 3 |
| **Area III — see page 40 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 |
| EDUC 202 Educational Technology – Classroom Applications | 3 |
| EDUC 301 Teaching: Experience I | 1 |
| EDUC 302 Learning and Instruction | 4 |
| EDUC 350 Teaching Students with Exceptional Needs at the Secondary Level | 3 |
| EDUC 401 Professional Year - Teaching Experience II | 2 |
| EDUC 402 Content Literacy for Secondary Students | 3 |
| EDUC 405 Teaching Secondary Social Studies | 3 |
| Teaching Experience III/IV | 16 |
| NOTE: Completion of all requirements for graduation with a secondary education option may require more than 128 credit hours. See "Teacher Education" for more information. | |
| POLS 102 State and Local Government | 3 |
| POLS 231 International Relations | 3 |
| Upper-division comparative government elective | 3 |
| Upper-division political science electives | 15 |
| Social science field other than political science | 21 |
| Electives to total 128 credits | 15 |
| 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 | 3 |
| POLS 102 State and Local Government | 3 |
| POLS 141 Contemporary Political Ideologies | 3 |
| POLS 231 International Relations | 3 |
| Upper-division comparative government course | 3 |
| Upper-division political science courses | 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. Each student seeking this minor must first get approval from the department chair in the political science department.

## 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 397, POLS 439, POLS 494, POLS 496, POLS 498, or POLS 499 | 12 |
| Total | 21 |

# Course Offerings

**See page 53 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).** 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).** 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 (3-1-4)(F).** Introduction to techniques of political science inquiry, concentrating on behavioral and attitudinal data analysis. Includes an introduction to statistics and computer applications.

**Upper Division**

**POLS 301 AMERICAN PARTIES AND INTEREST GROUPS (3-0-3)(F).** Development of understanding of nature, functions, organization, and activities of political parties and interest groups within the American political system. Emphasis on performance of America's two major political parties, especially in nominations and elections, and on organization and lobbying activities of major interest groups. PREREQ: POLS 101 or 102.

**POLS 302 PUBLIC OPINION AND VOTING BEHAVIOR (3-0-3)(S).** Development of public opinion and voting behavior. Empirical research from a variety of fields for understanding and analysis of factors that mold popular attitudes and political behavior. PREREQ: POLS 101 or 102.

**POLS 303 INTRODUCTION TO PUBLIC ADMINISTRATION (3-0-3)(F/S).** Theory, administrative organization, functions, and problems of governmental units PREREQ: POLS 101.

**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 or PERM/INST.

**POLS 309 AMERICAN CHIEF EXECUTIVE (3-0-3)(F).** 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).** Fiscal aspects of planning and control of governmental units. Principles of taxation and other revenues, government indebtedness, and policy-making. (Interdepartmental course with department of economics students cannot receive credit for both POLS 310 and ECON 310). PREREQ: ECON 201, 202.

**POLS 311 COMPARATIVE FOREIGN POLICY (3-0-3)(F).** 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 231 or PERM/INST.

**POLS 312 LEGISLATIVE BEHAVIOR (3-0-3)(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.

**POLS 320 AMERICAN POLICY PROCESS (3-0-3)(S).** The process through which policy is determined, implemented, and adjusted, with emphasis on the role of administrators.

**POLS 321 INTRODUCTION TO COMPARATIVE POLITICS (3-0-3)(F).** 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 or PERM/INST.

**POLS 324 POLITICS IN RUSSIA AND EASTERN EUROPE (3-0-3)(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 327 CANADIAN POLITICS (3-0-3)(F)(Alternate 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 PERM/INST.

**POLS 328 POLITICS IN JAPAN (3-0-3)(F).** 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 or PERM/INST.

**POLS 329 POLITICS OF INDUSTRIALIZED NATIONS (3-0-3)(F/S).** Political systems of selected industrialized European nations, including Great Britain, France, the German Federal Republic, and the countries of Scandinavia. Analysis of patterns of political culture, political interests, political power, and selected public policy issues. PREREQ: POLS 101 or POLS 231 or PERM/INST.

**POLS 331 AMERICAN POLITICAL THEORY (3-0-3)(F).** Genesis and development of political thought in the United States from the colonial period to the present.

**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)(Alternate years).** Development of diplomacy from the foundation of the republic to the present, with emphasis on emergence and continuance of United States as a world power; impact of domestic developments on formulation of foreign policies.

**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 or PERM/INST.

**POLS 351 CONSTITUTIONAL LAW (3-0-3)(F).** 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)(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 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 141 or PERM/INST.

**POLS 398 ADVANCED POLITICAL SCIENCE METHODS (3-1-4)(S).** Examination of the discipline of political science, its central problems and unifying concerns; techniques of scientific political investigation as they relate to improved research methods. PREREQ: POLS 298 or PERM/INST.

**POLS 421 INTERNATIONAL LAW AND ORGANIZATION (3-0-3)(F).** 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 101, 231 or PERM/INST.

**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 101, 231 or PERM/INST.

**POLS 441 WESTERN POLITICAL THEORY I (3-0-3)(F)(Alternate years).** Development of political philosophy from Socrates to Machiavelli. This course may be taken for either POLS or PHIL credit, but not both.

**POLS 442 WESTERN POLITICAL THEORY II (3-0-3)(F)(Alternate years).** Development of political thought since Machiavelli. This course may be taken for either POLS or PHIL credit, but not both.

**POLS 445 PHILOSOPHY OF LAW (3-0-3)(F/S).** Philosophical examination of forms of legal reasoning and of principles underlying civil and criminal law. PREREQ: POLS 141 or PHIL 101 or HIST 336.

**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, 102.

**POLS 487 (SOC 487) ORGANIZATIONAL THEORY AND BUREAUCRATIC STRUCTURES (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. This course may be taken for POLS or SOC credit, but not for both.

**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.

**Practical Nursing - see Department of Nursing**

**Pre-Professional Programs:**

- **Architecture - see Department of Art**
- **Chiropractic, Dental, Dietetics, Medical Technology, Medicine, Occupational Therapy, Optometry, Pharmacy, Physical Therapy, Physician Assistant, and Veterinary — see Department of Health Studies**
- **Forestry - see Department of Biology**
- **Law — see Pre-Law Advising**

**Production and Operations Management — see Department of Computer Information Systems and Production Management**

# Pre-Law Advising

Business Building, Room 313 Telephone 208 426-3675
*Information:* Michael Bixby.
**OR**
Public Affairs and Art West, Room 126A Telephone 208 426-4080
*Information:* Daniel Levin.

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 political science, English, business, natural science, history, linguistics, communications, 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

Education Building, Room 629 Telephone 208 426-1207
http://psych.boisestate.edu Fax 208 426-4386
e-mail: pjohnso@boisestate.edu

*Chair and Professor:* Charles R. Honts. *Professors:* Anooshian, Dodson, Landrum, Seibert. *Associate Professor:* Turrisi. *Assistant Professor:* Goldenberg.

## Degrees Offered

- B.A., B.S., and Minor in Psychology

## 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 sciences. (In this catalog, see the sections on economics, history, political science, anthropology, and sociology.) If you do apply psychology toward a baccalaureate degree in social sciences, 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 40 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 40 for list of approved courses** | |
| PSYC 101 General Psychology | 3 |
| 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 40 for list of approved courses** | |
| BIOL 227, 228 Human Anatomy and Physiology | 8 |
| Area III core course in mathematics | 4 |
| PSYC 120 Introduction to the Psychology Major | 1 |
| PSYC 295 Statistical Methods | 3 |
| PSYC 321 Research Methods | 4 |
| PSYC 489 Capstone Perspectives on Psychological Issues | 3 |
| One course chosen from the following:<br>PSYC 335 Physiological Psychology<br>PSYC 341 Perception | 3 |
| One course chosen from the following:<br>PSYC 405 Advanced Statistical Methods<br>PSYC 421 Psychological Measurement | 3 |
| One course chosen from the following:<br>PSYC 343 Cognitive Psychology<br>PSYC 441 Learning | 3 |
| One course chosen from the following:<br>PSYC 331 The Psychology of Health<br>PSYC 455 Industrial/Organizational Psychology<br>PSYC 459 Psychology and Law | 3 |
| One course chosen from the following:<br>PSYC 309 Child Development<br>PSYC 310 Adolescent and Adult Development | 3 |
| One course chosen from the following:<br>PSYC 301 Abnormal Psychology<br>PSYC 351 Personality<br>PSYC 431 Social Psychology | 3 |
| Upper-division psychology course | 3 |

*— continued —*

| *Psychology (continued)* | |
|---|---|
| Mathematics<br>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 Minor

| Course Number and Title | Credits |
|---|---|
| PSYC 101 General Psychology<br>PSYC 295 Statistical Methods | 3<br>3 |
| PSYC 341 Perception **OR**<br>PSYC 343 Cognitive Psychology | 3 |
| Two of the following:<br>PSYC 301 Abnormal Psychology<br>PSYC 309 Child Development<br>PSYC 310 Adolescent and Adult Development<br>PSYC 351 Personality<br>PSYC 431 Social Psychology | 6 |
| Upper-division Psychology courses | 6 |
| Total | 21 |

## Psychology Requirements for a Minor Certification Endorsement by the State Department of Education

| Course Number and Title | Credits |
|---|---|
| PSYC 101 General Psychology<br>PSYC 295 Statistical Methods<br>PSYC 301 Abnormal Psychology<br>PSYC 351 Personality | 3<br>3<br>3<br>3 |
| Upper-division psychology courses | 9 |
| Total | 21 |

## Social Science, Secondary Education Option

| Course Number and Title | Credits |
|---|---|
| PSYC 101 General Psychology<br>PSYC 301 Abnormal Psychology<br>PSYC 351 Personality | 3<br>3<br>3 |
| Upper-division psychology courses | 6 |
| Total | 15 |

# Course Offerings

**See page 53 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 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).** 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).** 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 341 PERCEPTION (3-0-3)(S).** A survey of the basic concepts in the psychology of perception. Present day research and findings from the human information processing approach are emphasized. Processes are stressed, although coverage of receptor structure, and neural pathways is included. 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).** This course will explore relevant dimensions of the helping relationship, especially the role of the helper. Emphasis will be on developing effective communications and fundamental counseling skills through required student participation in role-playing, audio taping and especially videotaping, and group activities. Limited enrollment. Pass/Fail. PREREQ: PSYC 101.

**PSYC 398 PSYCHOLOGY SEMINAR (3-0-3)(S).** Selected topics of special interest to persons planning careers in psychology. Pass/Fail.

**PSYC 401 SENIOR REVIEW PRACTICUM (0-3-3)(F,S).** A systematic coverage of the general principles of psychology and an opportunity to teach them to others. Practical experience in rendering academic assistance to beginning students and managing large classes. Seminar discussion of difficulties encountered by those students. PREREQ: Senior or 2nd-semester junior standing in psychology with an upper-division GPA above 3.0 and 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 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 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)(S).** This course examines the psychological theories and methodologies used to respond to the needs of industries and other organizations and to those of the individuals and groups within organizational settings. Topics include organizational theory, organizational behavior, motivation, job satisfaction, job design, group processes, leadership, performance evaluation, selection, placement, training, and development. PREREQ: PSYC 101.

**PSYC 459 PSYCHOLOGY AND LAW (3-0-3)(F).** 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 the topics covered 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 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

### Quality Management Minor — see Department of Computer Information Systems and Production Management

# Department of Radiologic Sciences

Health Science Riverside — Telephone 208 426-1996
http://hs.boisestate.edu/radiology/index.htm — Fax 208 426-4459
e-mail: jburns@boisestate.edu

*Chair, DMS Program Director, and Associate Professor:* Joie Burns. *Radiologic Sciences Program Director and Assistant Professor:* Darlene Travis. *Assistant Professors:* McCrorie, Staley. *CT/MRI Program Director and Associate Professor:* Lorrie Kelley.

## Degrees Offered

- A.S. in Radiologic Sciences
- B.S. in Radiologic Sciences

## Department Statement

To determine the presence of injury or disease, radiologic technologists care for and position patients while operating radiographic equipment to produce medical images necessary for diagnosis. Most technologists work in the radiology departments of hospitals or with physicians who maintain private offices.

The Radiologic Sciences Program offers a curriculum that uses both university classroom and clinical components. This integrated program allows students to gain the essential knowledge and skills required to become registered radiologic technologists.

The B.S. program is fully accredited by the Joint Review Committee on Education in Radiologic Technology. The curriculum enables students to complete the three-year associate degree requirements and become eligible for the national certification examination. Students may continue their studies to earn a bachelor of science degree with emphasis in radiologic general studies, computed tomography, magnetic resonance imaging, or diagnostic medical sonography.

## Degree Requirements

### Requirements for Admission

1. Freshman Year
   A. Admission to BSU.
   B. Students should see a radiologic sciences advisor and obtain an official program packet.
2. Sophomore Year
   A. Only students who have completed or are in the process of completing the pre-professional curriculum (see * courses in the degree requirements tables) with a GPA of 2.50 or higher will be considered for acceptance into the sophomore year of the Radiologic Sciences Program. A grade lower than C will not be accepted for any of the required courses.
   B. Health status must be adequate to ensure successful performance of program requirements within ADA guidelines, and delivery of safe patient care. Contact the program director for details.

### Application Process

1. Freshman Year
   A. See Chapter 3 for admission policies.
2. Sophomore Year
   A. Qualified applicants must complete a Radiologic Sciences Application and return it to the radiologic sciences department office on or before February 15 of the year in which they plan to begin the second (sophomore) year of the required radiologic sciences curriculum. Included should be a transcript of any courses completed at a college or university other than BSU, along with a list of courses in which the applicant is currently enrolled. A maximum of 4-credits of prerequisite courses may be completed during the summer of the application year.
   B. Selected qualified applicants are required to have an interview during the spring semester of the application year.
   C. All applicants will be notified of their status by April 25. Because of the limited number of clinical sites, the program can accept only a limited number of students each year.

### Admission Process

All students admitted to the Radiologic Sciences Program are required to:

1. Submit a negative tuberculosis report (PPD Test) plus a documented rubella and rubeola immunity report to the department by the beginning of the fall semester. The department strongly recommends Hepatitis B vaccination.
2. Submit documentation of word processing competency through the successful completion (70% or better) of CIS104/MS Word placement examination or equivalent. See *BSU Directory of Classes* or http://cispom.boisestate.edu/ccxam.htm for placement examination information.
3. Submit a current CPR certification card by the beginning of the fall semester and annually throughout the program.
3. Provide proof of personal medical insurance.
4. See the *BSU Directory of Classes* for additional semester laboratory fees, payable at the time of registration.

## Promotion and Graduation

1. Students must maintain a GPA of at least 2.50 for each semester of the professional program. A lower GPA may constitute basis for removal from the program.
2. Any professional theory course (HLTHST, RADSCI) or clinical unit with a grade of less than C must be repeated and raised to C or higher before continuing in the program.

### Pre-professional Curriculum

All students who are considering entry into the Radiologic Sciences 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 BSU.

**Radiologic Sciences**
**Associate of Science**

| Course Number and Title | Credits |
|---|---|
| *ENGL 101, 102 English Composition | 6 |
| **Area I — see page 40 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 40 for list of approved courses** | |
| *COMM 101 Fundamentals of Speech Communication | 3 |
| *PSYC 101 General Psychology | 3 |
| Area II core course | 3 |
| **Area III — see page 40 for list of approved courses** | |
| *MATH 143 College Algebra **OR** | 3-9 |
| MATH 108 Intermediate Algebra plus | |
| a core MATH course | |
| *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 252 Skull Positioning | 1 |
| RADSCI 285 Clinical Experience | 4 |
| RADSCI 310 Pharmacology and Contrast Medias | 1 |
| RADSCI 320 Radiographic Procedures | 2 |
| RADSCI 321 Radiographic Practicum | 1 |
| RADSCI 338 Digital Radiography and Cross-Sectional Anatomy | 3 |
| RADSCI 340 Radiographic Quality Assurance | 3 |
| RADSCI 350 Medical and Surgical Diseases | 2 |
| 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

## Baccalaureate Degree Curriculum

Each student must have met and satisfactorily completed all requirements for the associate degree in radiologic sciences at BSU, or have comparable course work in radiologic sciences or a related discipline from another college or university program, must be an ARRT registered technologist, or have permission from the department chair. Transfer students must meet all BSU requirements for degree approval. Please see a radiologic sciences advisor.

### Application Process for Computed Tomography, Magnetic Resonance Imaging, and Diagnostic Medical Sonography

1. Qualified applicants must complete an Imaging Programs Application and return it to the department of radiologic sciences on or before March 1 of the year in which they will begin the bachelor's emphasis. The application must contain an application form, three references, and official transcripts, including current courses. An official application packet is available at http://hs.boisestate.edu/radiology/application.htm or from the program director. A personal interview is required.
2. Follow "Admission Process" and "Promotion and Graduation" as outlined above. All transfer students must meet BSU requirements for degree confirmation. Please see a radiologic sciences advisor.
3. See the program director for additional information and application process information.
3. See the *BSU Directory of Classes* for additional semester laboratory fees, payable at the time of registration.

**Radiologic Sciences**
**Bachelor of Science**

| Course Number and Title | Credits |
|---|---|
| ENGL 101, 102 English Composition | 6 |
| **Area I — see page 40 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 40 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 40 for list of approved courses** | |
| MATH 143 College Algebra OR | 3-9 |
| MATH 108 Intermediate Algebra plus a core math course | |
| 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 252 Skull Positioning | 1 |
| RADSCI 285 Clinical Experience | 4 |
| RADSCI 310 Pharmacology and Contrast Medias | 1 |
| RADSCI 320 Radiographic Procedures | 2 |

*— continued —*

| *Radiologic Sciences, Bachelor of Science (continued)* | |
|---|---|
| RADSCI 321 Radiographic Practicum | 1 |
| RADSCI 338 Digital Radiography and Cross-Sectional Anatomy | 3 |
| RADSCI 340 Radiographic Quality Assurance | 3 |
| RADSCI 350 Medical and Surgical Diseases | 2 |
| 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 |
| Upper-division Area II or Area III course **OR** upper-division elective | 3 |
| Total | 135-141 |
| ***Diagnostic Medical Sonography Emphasis** | |
| HLTHST 300 Pathophysiology | 4 |
| HLTHST 413 Health, Law, and Ethics **OR** HLTHST 434 Bedside Bioethics | 3 |
| RADSCI 430 Comparative Sectional Imaging | 3 |
| RADSCI 460 Sonographic Physics and Instrumentation | 3 |
| RADSCI 461 Abdominal Sonography | 3 |
| RADSCI 462 Obstetrics/Gynecology Sonography | 3 |
| RADSCI 463 Doppler Procedures | 1 |
| RADSCI 464 Special Sonographic Procedures | 1 |
| RADSCI 467 Clinical Experience in Medical Sonography I | 4 |
| RADSCI 468 Clinical Experience in Medical Sonography II | 5 |
| RADSCI 469 Clinical Experience in Medical Sonography III | 6 |
| Upper-division Area II or Area III course **OR** | 0-2 |
| Total | 149-157 |
| **General Studies Emphasis** | |
| HLTHST 202 Health Delivery Systems | 3 |
| MGMT 301 Leadership Skills **OR** HLTHST 304 Public Health Administration | 3 |
| MGMT 305 Human Resource Management | 3 |
| RADSCI 400 Development of an Imaging Department | 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 | 3 |
| RADSCI 440 Principles of Magnetic Resonance Imaging I | 3 |
| RADSCI 440L Principles of Magnetic Resonance Imaging I Lab | 1 |
| RADSCI 441 Procedural Case Studies in Magnetic Resonance Imaging I | 1 |
| RADSCI 442 Principles of Magnetic Resonance Imaging II | 3 |
| RADSCI 442L Principles of Magnetic Resonance Imaging II Lab | 1 |

*— continued —*

| *Radiologic Sciences, Bachelor of Science (continued)* | |
|---|---|
| RADSCI 443 Procedural Case Studies in Magnetic Resonance Imaging II | 1 |
| RADSCI 445 Clinical Experience in Magnetic Resonance Imaging I | 4 |
| RADSCI 446 Clinical Experience in Magnetic Resonance Imaging II | 4 |
| Upper-division Area II or Area III course **OR** | 0-2 |
| Total | 138-146 |

*Application and Acceptance Required

# Course Offerings

**See page 53 for a definition of the course-numbering system.**

**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 and RADSCI 252. COREQ: RADSCI 242 and RADSCI 252.

**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).** 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).** 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. The basic concepts and procedures used in obtaining diagnostic radiographs of the digestive and urinary systems, pelvic girdles, bony thorax, pelvis, hips, and the spine. PREREQ: RADSCI 222. COREQ: RADSCI 221.

**RADSCI 252 SKULL POSITIONING (1-0-1)(S).** Anatomy and positioning techniques for the skull and facial bones. COREQ: RADSCI 221.

**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).** Concepts of pharmacology as it relates to the delivery of contrast medias and selected medications associated with contrast media reactions. PREREQ: HLTHST 216.

**RADSCI 320 RADIOGRAPHIC PROCEDURES (2-0-2)(F).** Specialized radiographic procedures that require individualized equipment, sterile technique, advanced methods, and/or invasive patient care. PREREQ: RADSCI 242.

**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 338 DIGITAL RADIOLOGRAPHY AND CROSS-SECTIONAL ANATOMY (3-0-3)(S).** Analysis of new radiologic imaging systems to include computed and digital radiography applications. Cross-sectional anatomy will also be considered. 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 (2-0-2)(F).** General survey of various diseases and pathology of the human body as they pertain to radiology. Emphasis on how pathology is demonstrated on radiographs and its effect on radiographic quality. PREREQ: RADSCI 242.

**RADSCI 360 SPECIAL RADIOGRAPHIC PROCEDURES (2-0-2)(S).** Fundamental concepts of the more specialized radiographic procedures with emphasis on the systemic circulatory system, mammography and bone density studies. PREREQ: RADSCI 320.

**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, computerized 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 application 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. PREREQ or 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 Therapy

Health Sciences Riverside
http://respther.boisestate.edu/
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Telephone 208 426-3383
Fax 208 426-4093

*Chair and Professor:* Conrad Colby. *Director of Clinical Education and Associate Professor:* Jeffrey M. Anderson. *Medical Director:* D. Merrick, M.D. *Professor:* Ashworth. *Associate Professor:* Lester. *Assistant Professor:* Hase.

## Degrees Offered

- A.S. and B.S. in Respiratory Therapy

## Department Statement

Respiratory therapy 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 therapy curriculum consists of a pre-professional year followed by two years of professional study, leading to an associate of science degree in respiratory therapy. 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 Therapy Program has been granted accreditation by the Committee on Accreditation for Respiratory Care.

## Degree Requirements

### Requirements for Admission

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 Therapy Program.
   B. Health status must be adequate to ensure performance of hospital activities in accordance with ADA guidelines.

All students admitted to the Respiratory Therapy Program are required to submit a negative PPD and document positive rubella and rubeola immunity report 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.

### Application Process

1. Pre-professional Year
   See Chapter 3 for admission policies.
2. Professional Program
   A. All respiratory therapy program applicants must submit to the department of respiratory therapy 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 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 $80.00 is required for the Patient Assessment course.
   G. All fees noted in D, E, and F above are to be paid directly to the BSU 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 therapy course.
B. A grade of less than a C in any professional course (HLTHST, RESPTHER) must be repeated and raised to a C or higher.

### Preprofessional Curriculum

All students who are considering entry into the Respiratory Therapy 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 BSU.

**Respiratory Therapy Associate of Science**

| Course Number and Title | Credits |
|---|---|
| *ENGL 101, 102 English Composition | 6 |
| **Area I — see page 40 for list of approved courses** | |
| *Area I core course in one field | 3 |
| *Area I core course in second field | 3 |
| Area I core course in third field | 3 |
| Area I core course in any field | 3 |
| **Area II — see page 40 for list of approved courses** | |
| Area II core course in one field | 3 |
| *Area II core course in second field (PSYC 101 recommended) | 3 |
| *Area II core course in third field (COMM 101 recommended) | 3 |
| Area II core course in any field | 3 |
| **Area III — see page 40 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 |
| *UNIV 106 Library Skills | 1 |
| HLTHST 216 Laboratory Values | 1 |
| HLTHST 220 Cardiopulmonary Renal Physiology | 3 |
| RESPTHER 104 Patient Assessment | 1 |
| RESPTHER 105 Interdisciplinary Patient Care Skills Lab | 2 |
| RESPTHER 200 Recitation and Application I | 1 |
| RESPTHER 203 Respiratory Therapy Theory I | 3 |
| RESPTHER 204 Respiratory Therapy Laboratory I | 1 |
| RESPTHER 208 Clinical Practicum I | 2 |
| RESPTHER 217 Pulmonary Assessment | 1 |
| RESPTHER 221 ECG Interpretation | 1 |
| RESPTHER 222 Interpretation of Chest Images | 1 |
| RESPTHER 223 Respiratory Therapy Theory II | 3 |
| RESPTHER 224 Respiratory Therapy Laboratory II | 1 |
| RESPTHER 225 Pulmonary Function Lecture | 2 |
| RESPTHER 226 Pulmonary Function Laboratory | 1 |
| RESPTHER 227 Pulmonary Medicine | 2 |
| RESPTHER 228 Clinical Practicum II | 4 |
| RESPTHER 250 Recitation and Application II | 1 |
| RESPTHER 300 Recitation and Application III | 1 |
| RESPTHER 301 Principles of Pharmacotherapeutics | 3 |
| RESPTHER 302 General Pathology | 2 |
| RESPTHER 303 Respiratory Therapy Theory III | 3 |
| RESPTHER 304 Respiratory Therapy Laboratory III | 1 |
| RESPTHER 308 Clinical Practicum III | 5 |
| RESPTHER 323 Respiratory Therapy Theory IV | 3 |
| RESPTHER 324 Respiratory Therapy Laboratory IV | 1 |
| RESPTHER 328 Clinical Practicum IV | 5 |
| RESPTHER 350 Recitation and Application IV | 2 |
| Total | 103-105 |

*Indicates a course in the preprofessional curriculum

## Baccalaureate Degree Curriculum

To receive a baccalaureate degree in respiratory therapy each student must have met and satisfactorily completed all requirements for the associate of science degree at BSU, or have an associate degree in respiratory therapy or a related discipline from a comparable college or university program and have permission of the department chair.

**Respiratory Therapy**
**Bachelor of Science**

| Course Number and Title | Credits |
|---|---|
| Successful completion of Associate of Science Program | 103-105 |
| *ENGL 101, 102 English Composition | 6 |
| **Area I — see page 40 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 40 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 40 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 to include: | 9 |
| *CHEM 101 Essentials of Chemistry | |
| Statistics (MATH 254, PSYC 295, SOC 310, or SOCWRK 380) | |
| Area II or III designation elective | |
| HLTHST 431 Quality Issues in Health Care | 3 |
| HLTHST 432 Critical Review of Health Care Research | 3 |
| HLTHST 434 Bedside Bioethics | 3 |
| RESPTHER 403 Respiratory Therapy Theory V | 3 |
| RESPTHER 493 Respiratory Therapy Internship | 2-6 |
| Approved electives | 2-8 |
| Total | 130 |

*Indicates a course in the associate degree curriculum.

# Course Offerings

**See page 53 for a definition of the course-numbering system.**

**RESPTHER — RESPIRATORY THERAPY**

**Lower Division**

**RESPTHER 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. COREQ: RESPTHER 105.

**RESPTHER 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. COREQ: RESPTHER 104.

**RESPTHER 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: RESPTHER 203, RESPTHER 204, RESPTHER 208.

**RESPTHER 203 RESPIRATORY THERAPY 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: RESPTHER 200, RESPTHER 204, RESPTHER 208.

**RESPTHER 204 RESPIRATORY THERAPY LABORATORY I (0-2-1)(F).** Medical gas techniques. COREQ: RESPTHER 200, RESPTHER 203, RESPTHER 208.

**RESPTHER 208 CLINICAL PRACTICUM I (0-6-2)(F).** Experience in the hospital with patients, techniques, and equipment. Emphasis on use of medical gases. COREQ: RESPTHER 200, RESPTHER 203, RESPTHER 204.

**RESPTHER 217 PULMONARY ASSESSMENT (1-0-1)(S).** Theory and application of basic pulmonary assessment including inspection, palpation, percussion, and auscultation. PREREQ: BIOL 227 and BIOL 228.

**RESPTHER 221 ECG INTERPRETATION (1-0-1)(S).** Basic interpretation of the electrocardiogram and recognition of cardiac arrhythmias. PREREQ: BIOL 227 and BIOL 228.

**RESPTHER 222 INTERPRETATION OF CHEST IMAGES (1-0-1)(S).** Clinical interpretation of chest images. PREREQ: Respiratory Therapy major or PERM/INST.

**RESPTHER 223 RESPIRATORY THERAPY 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: RESPTHER 203. COREQ: RESPTHER 224, RESPTHER 228, RESPTHER 250.

**RESPTHER 224 RESPIRATORY THERAPY LABORATORY II (0-2-1)(S).** Use of hyperinflation therapy devices, chest physiotherapy, and mechanical ventilation. PREREQ: RESPTHER 203. COREQ: RESPTHER 223, RESPTHER 228, RESPTHER 250.

**RESPTHER 225 PULMONARY FUNCTION LECTURE (2-0-2)(S).** Theory of pulmonary function testing, using simple spirometry, flow-volume loops, closing volumes, nitrogen washout, helium dilution, and body plethysmography. PREREQ: PERM/INST.

**RESPTHER 226 PULMONARY FUNCTION LABORATORY (0-2-1)(S).** Practice in pulmonary function testing and techniques. PREREQ: PERM/INST.

**RESPTHER 227 PULMONARY MEDICINE (2-0-2)(S).** Discussion of pulmonary diseases, certain cardiac diseases, and the clinical management of these diseases. PREREQ: BIOL 227, BIOL 228; Respiratory Therapy major or PERM/INST.

**RESPTHER 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: RESPTHER 203. COREQ: RESPTHER 223, RESPTHER 224, RESPTHER 250.

**RESPTHER 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: RESPTHER 203. COREQ: RESPTHER 223, RESPTHER 224, RESPTHER 228.

**Upper Division**

**RESPTHER 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: RESPTHER 223. COREQ: RESPTHER 303, RESPTHER 304, RESPTHER 308.

**RESPTHER 301 PRINCIPLES OF PHARMACOTHERAPEUTICS (3-0-3)(F).** Principles, practical uses, and interaction of drugs and their relationship to disease. PREREQ: BIOL 227 and BIOL 228.

**RESPTHER 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 and BIOL 228.

**RESPTHER 303 RESPIRATORY THERAPY THEORY III (3-0-3)(F).** Theory and clinical application of mechanical ventilation, including care and management of artificial airways, and hemodynamic monitoring. PREREQ: RESPTHER 223. COREQ: RESPTHER 300, RESPTHER 304, RESPTHER 308.

**RESPTHER 304 RESPIRATORY THERAPY LABORATORY III (0-2-1)(F).** Practice using mechanical ventilators and suctioning devices. PREREQ: RESPTHER 223. COREQ: RESPTHER 300, RESPTHER 303, RESPTHER 308.

**RESPTHER 308 CLINICAL PRACTICUM III (0-16-5).** Experience in the hospital with patients, techniques, and equipment as applied to mechanical ventilation and artificial airways. PREREQ: RESPTHER 223. COREQ: RESPTHER 300, RESPTHER 303, RESPTHER 304.

**RESPTHER 323 RESPIRATORY THERAPY IV (3-0-3)(S).** Theory and application of techniques and equipment to neonatology and pediatrics. PREREQ: RESPTHER 303. COREQ: RESPTHER 324, RESPTHER 328, RESPTHER 350.

**RESPTHER 324 RESPIRATORY THERAPY LABORATORY IV (0-2-1)(S).** Use of infant ventilators and special techniques pertaining to pediatrics. PREREQ: RESPTHER 303. COREQ: RESPTHER 323, RESPTHER 328, RESPTHER 350.

**RESPTHER 328 CLINICAL PRACTICUM IV (0-16-5)(S).** Experience in the hospital and other health care environments with any or all aspects of respiratory therapy. PREREQ: RESPTHER 303. COREQ: RESPTHER 323, RESPTHER 324, RESPTHER 350.

**RESPTHER 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: RESPTHER 303. COREQ: RESPTHER 323, RESPTHER 324, RESPTHER 328.

**RESPTHER 403 RESPIRATORY THERAPY 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: RESPTHER 323.

**RESPTHER 493 RESPIRATORY THERAPY INTERNSHIP (0-V-V).** Supervised practice in various health care facilities. PREREQ: RESPTHER 323 and PERM/INST.

# School of Social Work

Education Building, Room 716 Telephone 208 426-1568
http://www.boisestate.edu/socwork Fax 208 426-4291

*Director and Associate Professor:* Martha Wilson. *Professors:* Hepler, Huff. *Associate Professors:* Cotrell, Harkness, Yunker. *Assistant Professors:* Allen, Gonzalez, Liley. *Practicum Director:* Knapp.
*B.A. Coordinator:* Robin Allen.
*M.S.W. Coordinator:* Martha Wilson.
*Practicum Director:* Jim Knapp.

## 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 is fully accredited by the Council on Social Work Education. A major in social work prepares students for beginning social work practice and licensing by the State of Idaho and other jurisdictions.

Social work offers an opportunity for a personally rewarding professional career to those who care deeply about the well-being of others. Social workers provide direct services to individuals, families, groups, and communities. Qualified licensed social workers are in demand in every area of professional practice.

Social work is usually practiced in social welfare agencies and in social work departments at host settings. Social workers are needed to work with children and adults who are mentally ill, emotionally disturbed, delinquent, mentally retarded, physically ill, handicapped, or economically and socially deprived. Social workers are sought for service in schools, courts, hospitals, and clinics that seek to detect and prevent delinquency and child neglect.

The School does not approve academic credit for prior work or life experience in the professional curriculum.

## 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 candidacy for the BSW degree. The school welcomes diversity and invites interest and applications from persons who seek to participate in a profession committed to helping people. Admission to candidacy for the BSW degree is determined by faculty evaluation of student applications.

Lower-division courses required for BSW candidacy:

| | |
|---|---|
| ENGL 101, 102 English Composition | 6 |
| Two Area I courses in Literature | 6 |
| Two Area I courses in arts and humanities | 6 |
| Area II History course | 3 |
| Area II Communication course | 3 |
| POLS 101 **OR** POLS 102 | 3 |
| ANTH 209 **OR** SOC 230 | 3 |
| SOC 101 | 3 |
| PSYC 101 | 3 |
| ECON 201 **OR** ECON 202 | 3 |
| SOCWRK 200 (earn a grade of B or better) | 3 |
| SOCWRK 200L (earn a grade of B or better) | 1 |
| PSYC 309 | 3 |
| BIOL 100 | 4 |
| MATH 130 | 4 |
| Area III core course | 4 |
| Modern Languages | 8 |

Completion of all courses with an overall GPA of 2.5 or higher

## Application Procedures

The School of Social Work reviews and approves applications for admission to BSW candidacy each October and March. Students may apply for candidacy during the semester in which they are completing their 66 credit-hours of University and School of Social Work required courses. Interested students may obtain current application materials and procedures at the social work office.

## Degree Requirements

**Social Work**
**Bachelor of Arts**

| Course Number and Title | Credits |
|---|---|
| ENGL 101, 102 English Composition | 6 |
| **Area I — see page 40 for list of approved courses** | |
| Area I core courses in literature | 6 |
| Area I core course in a second field | 3 |
| Area I core course in a third field | 3 |
| **Area II — see page 40 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 40 for list of approved courses** | |
| BIOL 100 Concepts of Biology | 4 |
| MATH 130 Finite Mathematics | 4 |
| Area III core course in any field | 4 |
| 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 Cultural Diversity | 3 |
| SOCWRK 200 Introduction to Social Welfare | 3 |
| SOCWRK 200L Social Work Volunteer Experience | 1 |
| SOCWRK 301 Social Welfare Policy | 3 |
| SOCWRK 321 Human Behavior in Social Environment | 3 |
| SOCWRK 333 Generalist Social Work Practice | 3 |
| SOCWRK 380 Social Work Research Methods and Statistics | 3 |
| SOCWRK 444 Social Work Skills I | 3 |
| SOCWRK 455 Social Work Skills II | 3 |
| SOCWRK 480, 481 Field Work | 10 |
| SOCWRK 498, 499 Senior Seminar | 2 |
| Communication course | 3 |
| Modern languages | 8 |
| Upper-division social sciences and public affairs electives<br>Must be selected from anthropology, communication, criminal justice administration, dispute resolution, history, political science, psychology, social work, or sociology, with approval of BSW Program Coordinator. Internships are excluded from fulfilling social sciences and public affairs electives; they can fulfill general electives only. | 9 |
| Electives to total 128 credits | 20 |
| Total | 128 |

## Course Offerings

**See page 53 for a definition of the course-numbering system.**

**SOCWRK — SOCIAL WORK**

**Lower Division**

**SOCWRK 200 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 200L SOCIAL WORK VOLUNTEER EXPERIENCE (0-45-1)(F/S).** 45 hours of volunteer service in a social service agency are required. The purpose of the volunteer experience is to introduce students to the profession of social work and the human services. Social work majors are required to take SW 200L. (Pass/Fail). PREREQ or COREQ: SW 200.

**SOCWRK 293-493 SOCIAL WORK INTERNSHIP (F/S).** Provide students practical, on-the-job social work experience in a social service 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 toward degree. Internships are excluded from fulfilling nine credit hours of social sciences and public affairs electives; they can fulfill general electives only. With approval of internship coordinator.

**Upper Division**

**SOCWRK 301 SOCIAL WELFARE POLICY (3-0-3)(F/S).** Reviews institutional social welfare and professional social work mechanisms to deal with the problems of social change. Explores a range of concepts, skills, tasks, policy-making styles, and case examples which enable social workers to become effective policy practitioners/proactive participants in shaping public social welfare policies. PREREQ: Admission to BSW candidacy.

**SOCWRK 321 HUMAN BEHAVIOR IN THE SOCIAL ENVIRONMENT (3-0-3)(F/S)**. Presents a broad perspective of human behavior relevant to social work using a social systems perspective under which various theoretical perspectives fit. Develops key concepts for understanding a number of individual and social problems: physical/sexual abuse, substance abuse, mental illness, physical illness, multi-problem families, and poverty. Explores issues of diversity, gender, race and ethnicity, and sexual orientation. PREREQ: Admission to BSW candidacy and PSYC 309. PREREQ or COREQ: PSYC 310.

**SOCWRK 333 GENERALIST SOCIAL WORK PRACTICE (3-0-3)(F/S).** Introduction to social work practice from a generalist perspective including models of practice, ethical issues, basic interviewing skills, ethnic and cultural dimensions, and foundation methods of practice. PREREQ: Admission to BSW candidacy and SOCWRK 301, SOCWRK 321.

**SOCWRK 380 SOCIAL WORK RESEARCH METHODS AND STATISTICS (3-0-3) (F/S).** Provides an introduction to the scientific method and the basic elements of applied research methodology and statistics. The focus will be on the use of research in social work and the manner in which research intertwines with other social work knowledge and skills. PREREQ: Upper-division standing and MATH 130.

**SOCWRK 414 CHILD WELFARE (3-0-3)(F/S).** This course will discuss qualities in parents that allow children to achieve optimal emotional, social, and intellectual growth. A family systems approach will be used to describe healthy family functioning and family disfunction. The focus will be on family intervention in response to issues such as substance abuse, child abuse, domestic violence, and other issues affecting the well being of families and children.

**SOCWRK 433 AGING: SOCIAL POLICY AND PROGRAMS (3-0-3)(F/S)(Alternate years).** This course includes policy issues and services that are or should be available to all ages, and special services that must be available for the frail, impaired, and isolated aged. Content survey includes the Social Security Act and the Older American Act, and their amendments. Available programs are explored, including local agencies, organizations, and related social services.

**SOCWRK 434 WOMEN AND PEOPLES OF COLOR, MULTICULTURAL ISSUES OF IDENTITY AND OPPRESSION (3-0-3)(F/S).** Historical oppression is central to the experiences of women and peoples of color in the United States. This course is a comparative exploration of experiences, emphasizing those aspects of gender, cultural, and racial diversity most pertinent to social work and social welfare.

**SOCWRK 444 SOCIAL WORK SKILLS I (3-0-3)(F/S).** Social work interviewing, assessment, goal setting, problem solving, relationship building, evaluation, and related skills with individuals, families, and small groups. Theories and ethics of social work practice. PREREQ: Admission to BSW candidacy and PSYC 310, SOCWRK 333, SOCWRK 380.

**SOCWRK 455 SOCIAL WORK SKILLS II (3-0-3)(F/S).** Social work skills in group and community settings. Large group skills including organizing, fund-raising, advocacy, policy practice, social change, and social development. Theories of social development and social justice. PREREQ: Admission to BSW candidacy and PSYC 310, SOCWRK 333, SOCWRK 380.

**SOCWRK 480 FIELD WORK I (0-16-5)(F).** Requires the student to work sixteen clock hours per week as a practicing social worker under the teaching supervision of a professionally trained and experienced social worker. Must apply for admission into the field work program no later than October 15 preceding enrollment. (Pass/Fail). PREREQ: Admission to BSW candidacy, Major GPA: 3.0., Department approval. PREREQ or COREQ: SOCWRK 444, SOCWRK 455, and SOCWRK 498.

**SOCWRK 481 FIELD WORK II (0-16-5)(S).** Continuation of Field Work I. (Pass/Fail). PREREQ: Admission to BSW candidacy, Major GPA: 3.0., Department approval. PREREQ: SOCWRK 480 and SOCWRK 498. COREQ: SOCWRK 499.

**SOCWRK 498 SENIOR LEVEL SEMINAR (1-0-1)(F).** Facilitates and encourages the student's development as an entry level practitioner through the synthesis of social work theory, practice and values. Must be taken concurrently with SOCWRK 480.

**SOCWRK 499 SENIOR LEVEL SEMINAR (1-0-1)(S).** Continuation of SOCWRK 498. Must be taken concurrently with SOCWRK 481.

# Department of Sociology

Library Building, Room 171 Telephone 208 426-3406
http://www.boisestate.edu/sociology Fax 208 426-4371
e-mail: dflacke@boisestate.edu

*Chair and Professor:* Patricia Dorman. *Professors:* Baker, Blain. *Associate Professor* Patrick. *Assistant Professors:* Corbin, Husting, Orr.

## 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, Interdisciplinary Social Science, Secondary, Education
- B.A. in Sociology, Social Science, Secondary Education
- Minor in Mexican-American Studies

## 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: women's 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 administration, economics, history, political science, psychology, sociology, and women's studies. 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**

| Course Number and Title | Credits |
|---|---|
| ENGL 101, 102 English Composition | 6 |
| **Area I — see page 40 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 40 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 40 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 |
| One year of college level foreign language in sequence<br>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 |

*— continued —*

| *Social Science, Bachelor of Arts (continued)* | |
|---|---|
| SOC 201 Theories of Society<br>SOC 210 Computer Applications in Social Science | 3<br>4 |
| SOCSCI 498 Senior Seminar | 3 |
| – 493 Internship or – 496 Independent Study | 3 |
| Methods course: COMM 302, HIST 210, POLS 398, PSYC 321, SOC 311, SOC 412, or WOMSTD 302 | 3 |
| *Upper-division first field<br>*Upper-division second field<br>*Select from the following for first and second fields of study: anthropology, communication, criminal justice administration, economics, history, political science, psychology, sociology, and women's studies. Only three (3) credit hours in each field may be workshops, special topics, independent study courses, or internships. | 12<br>12 |
| Upper-division electives to total 40 credits | 7-10 |
| Electives to total 128 credits | 28-31 |
| Total | 128 |

## Social Science
## Bachelor of Science

| Course Number and Title | Credits |
|---|---|
| ENGL 101, 102 English Composition | 6 |
| **Area I — see page 40 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 40 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 40 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<br>These courses do not have to be selected from the approved core list, but are to be chosen from anthropology, biology, chemistry, communication, economics, engineering, geology, geography, history, mathematics, physical science, physics, political science, psychology, social work, sociology, and teacher education. | 9 |
| SOC 201 Theories of Society<br>SOC 210 Computer Applications in Social Science | 3<br>4 |
| SOCSCI 498 Senior Seminar | 3 |
| – 493 Internship or – 496 Independent Study | 3 |
| Methods course: COMM 302, HIST 210, POLS 398, PSYC 321, SOC 311, SOC 412, or WOMSTD 302 | 3 |
| Statistics course: PSYC 295, POLS 298, or SOC 310 | 3 |
| *Upper-division first field<br>*Upper-division second field<br>*Select from the following for first and second fields of study: anthropology, communication, criminal justice administration, economics, history, political science, psychology, sociology, and women's studies. Only three (3) credit hours in each field may be workshops, special topics, independent study courses, or internships. | 12<br>12 |
| Upper-division electives to total 40 credits | 3-10 |
| Electives to total 128 credits | 32-39 |
| 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*
## Bachelor of Science

| Course Number and Title | Credits |
|---|---|
| ENGL 101, 102 English Composition | 6 |
| **Area I — see page 40 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<br>(B.A. must complete 3 credits of Area I core literature.) | 3 |
| **Area II — see page 40 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<br>(B.A. must complete 3 credits of Area II core history.)<br>(Sociology courses MAY NOT be used to satisfy Area II requirements.) | 3 |
| **Area III — see page 40 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 |
| B.A. Area I or II courses **OR**<br>B.S. Area II or III courses | 9 |
| SOC 101 Introduction to Sociology | 3 |
| SOC 201 Theories of Society | 3 |
| SOC 210 Computer Applications in Social Science | 4 |
| SOC 310 Elementary Social Statistics | 4 |
| SOC 311 Social Research | 3 |
| SOC 400 Sociological Theory | 3 |
| SOC 490 Senior Practicum **OR**<br>SOC 496 Independent Study | 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:<br>1) **Social Research:** SOC 410 Advanced Social Statistics, SOC 412 Qualitative Social Research, SOC 493 Internship in social research settings.<br>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.<br>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 | 9 |
| Electives to total 128 credits | 26-28 |
| Total | 128 |
| **NOTE:** *The B.A. degree requires one year of a foreign language. | |

Any BSU 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 | 3 |
| SOC 201 Theories of Society | 3 |
| SOC 311 Social Research | 3 |
| Upper-division Sociology courses | 9 |
| Sociology course | 3 |
| Total | 21 |

## Sociology, Interdisciplinary Social Science Secondary Education Bachelor of Arts

| Course Number and Title | Credits |
|---|---|
| ENGL 101, 102 English Composition | 6 |
| **Area I — see page 40 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 |
| EDUC 201 Foundations of Education | 3 |
| HIST 111/211 U.S. History | 3 |
| POLS 101 American National Government | 3 |
| **Area III — see page 40 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 |
| ANTH 209 Issues in Cultural Diversity | 3 |
| Upper-division anthropology chosen from: ANTH 311, ANTH 409, ANTH 411 or upper-division archaeology course | 6 |
| ECON 201 Principles of Macroeconomics | 3 |
| EDUC 202 Educational Technology – Classroom Applications | 3 |
| EDUC 301 Teaching: Experience I | 1 |
| EDUC 302 Learning and Instruction | 4 |
| EDUC 350 Teaching Students with Exceptional Needs at the Secondary Level | 3 |
| EDUC 401 Professional Year - Teaching Experience II | 2 |
| EDUC 402 Content Literacy for Secondary Students | 3 |
| EDUC 405 Teaching Secondary Social Studies | 3 |
| Teaching Experience III/IV | 16 |
| NOTE: Completion of all requirements for graduation with a secondary education option may require more than 128 credit hours. See "Teacher Education" for more information. | |
| GEOG 102 Cultural Geography | 3 |
| GEOG 210 Survey of World Regional Geography | 3 |
| Upper-division geography course chosen from: GEOG 321, GEOG 331, GEOG 340, GEOG 350 | 6 |
| HIST 112/212 U.S. History | 3 |
| HIST 210 Introduction to the Study of History | 3 |
| Lower-division history course chosen from: HIST 101/201 HIST 102/202, HIST 105 | 6 |
| Upper-division U. S. history course | 3 |
| Upper-division European or nonwestern history course | 3 |
| POLS 102 State and Local Government | 3 |
| POLS 331 American Political Theory | 3 |
| Upper-division comparative government course | 3 |
| SOC 101 Introduction to Sociology | 3 |
| SOC 201 Theories of Society | 3 |
| SOC 400 Sociological Theory | 3 |
| SOC 431 Social Psychology | 3 |
| Total | 128 |

The social science, secondary education emphasis programs are cooperative, multidisciplinary programs involving the departments of economics, history, political science, sociology, and anthropology. Each of these departments, except history, provides a major emphasis with the social science, secondary emphasis. 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. complete six credits in U.S. history and three credits of American national government for certification requirements.

## Sociology, Social Science Secondary Education Emphasis Bachelor of Arts

| Course Number and Title | Credits |
|---|---|
| ENGL 101, 102 English Composition | 6 |
| **Area I — see page 40 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 40 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 40 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 |
| EDUC 201 Foundations of Education | 3 |
| EDUC 202 Educational Technology – Classroom Applications | 3 |
| EDUC 301 Teaching: Experience I | 1 |
| EDUC 302 Learning and Instruction | 4 |
| EDUC 350 Teaching Students with Exceptional Needs at the Secondary Level | 3 |
| EDUC 401 Professional Year - Teaching Experience II | 2 |
| EDUC 402 Content Literacy for Secondary Students | 3 |
| EDUC 405 Teaching Secondary Social Studies | 3 |
| Teaching Experience III/IV | 16 |
| NOTE: Completion of all requirements for graduation with a secondary education option may require more than 128 credit hours. See "Teacher Education" for more information. | |
| SOC 101 Introduction to Sociology | 3 |
| SOC 201 Theories of Society | 3 |
| SOC 210 Computer Applications in Social Sciences | 4 |
| SOC 310 Elementary Social Statistics | 4 |
| SOC 311 Social Research | 3 |
| SOC 400 Sociological Theory | 3 |
| SOC 498 Sociology Seminar | 3 |
| Upper-division Sociology courses | 16 |
| Social science field other than sociology | 21 |
| Total | 128 |

Minor certification endorsements for teaching areas are listed in this catalog in "Teacher Education."

## Sociology Minor Certification Endorsement

| Course Number and Title | Credits |
|---|---|
| SOC 101 Introduction to Sociology | 3 |
| SOC 201 Theories of Society | 3 |
| SOC 210 Computer Applications in Social Science | 4 |
| SOC 311 Social Research | 3 |
| SOC 400 Sociological Theory | 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 468 History of Mexico | 3 |
| SOC 230 Introduction to Multi-Ethnic Studies<br>SOC 279 Contemporary Mexican Society and Relations with U.S.<br>SOC 333 Mexican-American Life through Sociology, Literature,and Practice<br>SOC 493 Internship (emphasis on Hispanic placements)<br>SOC 499 Seminar in Mexican-American Studies | 3<br>3<br>3<br>3<br>3 |
| Courses chosen from ANTH 101, ANTH 319, HIST 261, SPAN 101, SPAN 102, SPAN 201, SPAN 202, TEACH-ED 278.<br>(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 resolution, and advocating multicultural access to all facets of U.S. society. The course work will examine the current issues, trend, controversies, and practices involving multiculturalism and diversity in the U.S.

The program is supervised by an interdisciplinary group of faculty. To develop a program of study, prospective majors must contact on of the following: Dr. Robert McCarl, Department of Anthropology; Dr. Errol Jones, Department of History; Dr. Richard Baker, Department of Sociology.

## Multi-Ethnic Studies Bachelor of Arts

| Course Number and Title | Credits |
|---|---|
| ENGL 101, 102 English Composition | 6 |
| **Area I — see page 40 for list of approved courses** | |
| Area I core course in literature<br>Area I core course in a second field<br>Area I core course in a third field<br>Area I core course in any field | 3<br>3<br>3<br>3 |

*— continued —*

*Multi-Ethnic Studies (continued)*

| | |
|---|---|
| **Area II — see page 40 for list of approved courses** | |
| Area II core course in history<br>Area II core course in a second field<br>Area II core course in a third field<br>Area II core course in any field | 3<br>3<br>3<br>3 |
| **Area III — see page 40 for list of approved courses** | |
| Area III core course in mathematics<br>Area III core course in a second field<br>Area III core course in a third field | 3-5<br>4<br>4 |
| Area I or II courses | 9 |
| ANTH 209 Issues in Cultural Diversity | 3 |
| HIST 261 History of Multicultural America | 3 |
| SOC 230 Introduction to Multi-Ethnic Studies | 3 |
| One seminar class<br>HIST 480 Seminar in American History<br>SOC 480 Seminar in Multi-Ethnic Studies | 3 |
| One internship class<br>ANTH/HIST/SOC Internship<br>Ethnic Organization/Ethnic Issues Organization | 3 |
| One methods class<br>ANTH 218 Introduction to Anthropology Methods<br>HIST 210 Introduction to the Study of History<br>SOC 311 Social Research Methods | 3 |
| Clusters: selected 6 credit hours per cluster, from three of the following clusters: | 18-20 |
| African American Studies<br>HIST 330 History of Modern Africa<br>SOC 306 Sociology of African Americans | |
| Asian Americans/Pacific Peoples<br>ANTH 305 Peoples of the Pacific Islands<br>ANT 310 Japanese Culture and Society<br>SOC 307 The Asian-American Social Experience | |
| Ethnic Literature:<br>ENGL 213 African American Literature<br>ENGL 319 North American Indian Folklore and Literature<br>Courses in French Literature (French/English)<br>Courses in German Literature (German/English)<br>Courses in Hispanic Literature (Spanish/English | |
| Gender Studies<br>ENGL 412 Women Writers<br>SOC 371 Social Psychology of Gender<br>SOC 481 Sociology of Gender and Aging<br>WOMSTD 300 Introduction to Women's Studies<br>WOMSTD 301 Feminist Sociological Theory | |
| Mexican American Studies<br>HIST 468 History of Mexico<br>SOC 278 Mexican-American Tradition and Culture<br>SOC 279 Contemporary Mexican Society<br>SOC 333 Mexican-American Life Through Sociology, Literature, and Practice | |
| Modern Language<br>Two courses in a foreign language sequence | 6-8 |
| Native American Studies<br>ANTH 307 Indians of North America<br>ANTH 315 Indian Peoples of Idaho<br>HIST 356 The Indian in U. S. History | |
| Upper-division electives chosen from:<br>ANTH 411 Language, Culture, and Society<br>COMM 351 Intercultural Communication<br>HIST 327 Living Religions<br>SOC 305 Race and Cultural Minorities<br>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 Cultural Diversity | 3 |
| HIST 261 History of Multicultural America | 3 |
| SOC 230 Introduction to Multiethnic Studies | 3 |
| Ethnic cluster courses<br>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 53 for a definition of the course-numbering system.**

**SOC — SOCIOLOGY**

**Lower Division**

**SOC 101 INTRODUCTION TO SOCIOLOGY (3-0-3)(Area II).** 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).** 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 interpretative contributions of sociology towards an understanding of the nature and causes of human behavior in society. 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).** 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).** 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 (CJA 290) SOCIAL CONFLICT AND PEACEMAKING (3-0-3)(F).** (Cross listed CJA 290.) 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 to a range of peaceful solutions to conflicts using nonviolent, nonadversarial methods. The course ranges from interpersonal conflict to the international nuclear arms race. This course may be taken for SOC or CJA credit, but not both.

**Upper Division**

**SOC 305 RACIAL AND CULTURAL MINORITIES (3-0-3)(S)(Alternate odd years).** Comparative study of inter-ethnic relations. Problems and possibilities of genocide, oppression, integration, pluralism and equality. PREREQ: SOC 101 or PSYC 101 and upper-division standing.

**SOC 306 SOCIOLOGY OF AFRICAN AMERICANS (3-0-3)(F/S).** Examination of the African American presence and experience in the contemporary United States will emphasize political, socio-economic, and cultural issues. Sociological and other perspectives will be introduced which offer promise in reconciling problems that separate peoples.

**SOC 307 THE ASIAN AMERICAN SOCIAL EXPERIENCE (3-0-3)(F/S)(Alternate years).** 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)(S).** An introduction to the empirical basis of modern sociological methods of research design and the statistical analysis of social data. PREREQ: SOC 101.

**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, upper-division status.

**SOC 333 MEXICAN-AMERICAN LIFE THROUGH SOCIOLOGY, LITERATURE, AND PRACTICE (3-0-3)(F/S).** 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, upper-division standing.

**SOC 362 (CJA 362) CONTEMPORARY CORRECTIONAL THEORY AND PRACTICE (3-0-3)(F).** (Cross listed CJA 362.) Historical development, processes, and methods of operating the adult correctional system. Philosophy and development of treatment strategies to local, state, and federal correctional institutions. This course may be taken for SOC or CJA credit, but not both.

**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 (WOMSTD 371) THE SOCIAL PSYCHOLOGY OF GENDER (3-0-3)(S).** Gender Studies in the United States and other countries. Social Psychological research and theory to explore the processes by which societies apply gender definitions, social change, institutional policies, and relationships between women and men. May be taken for Sociology or Women's Studies credit, but not both. PREREQ: PSYC 101 or SOC 101 and upper-division status.

**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 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. This course may be taken for SOC or COMM credit, but not both. PREREQ: COMM 101 or SOC 101

**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 400 SOCIOLOGICAL THEORY (3-0-3)(F/S).** In-depth examination of social theory from the Enlightenment to the present, which may have relevance for contemporary thought, social research, and social practice. PREREQ: SOC 101, SOC 201 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, 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, 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 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. This course may be taken for either psychology or sociology credit, but not for both. 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 471 (WOMSTD 471) FEMINIST SOCIOLOGICAL THEORY (3-0-3)(F/S).** An examination of the major types of feminist theory in sociology, or theory directly useful to sociologists in search of understanding and explaining gender relations. The student will encounter new perspectives in sociology that arise from the exchange of new ideas, new data, exciting possibilities for social change, and the emergence of new theoretical models to understand gender relations. This course may be taken for SOC or WOMSTD credit, but not both. PREREQ: Upper-division standing.

**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).** An examination of complex formal organizations, bureaucracy and human interaction, theory, research, and findings are covered. This course 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

## Special Education - see Teacher Education

# Teacher Education, Department of Elementary Education and Specialized Studies

Education Building, Room 504 — Telephone 208 426-3602
http://education.boisestate.edu — Advising 208 426-4217
e-mail: lblack@boisestate.edu — Fax 208 426-3807

*Chair and Professor:* Wenden Waite. *Professors:* Bahruth, Bauwens, French, Fuhriman, Hourcade, Lambert, Lindsey, Sadler, Singletary, Steiner, Young. *Associate Professors:* Kyle, Miller. *Assistant Professors:* Brendefur, Flachbart, Palmer, Rule, Silva.

## Degrees Offered

- B.A. in Elementary Education
- B.A. in Elementary Education, Bilingual/ESL
  **Endorsements**
  Elementary Education (K-8)
  Elementary Education (K-12 with Special Education Endorsement)
  Elementary Education (K-12 with Reading Endorsement)
- M.A. and M. S. in Education, with emphases in Curriculum and Instruction; Early Childhood; Reading, and Special Education. (See the *BSU Graduate Catalog*.)
- Doctorate in Curriculum and Instruction (See the *BSU Graduate Catalog*.)

## Department Statement

Reflective teachers adjust their teaching approaches to the needs and backgrounds of their students. The degree programs in elementary education are designed to assist students in developing the knowledge, skills, values, and dispositions essential for success in teaching. The programs are based on two assumptions: that successful teachers are committed to the acquisition and

continuous renewal of knowledge in the substantive areas that they teach, and that they are also committed to the development of pedagogy conducive to a high level of achievement for all students. Therefore, course work combines content knowledge with the study of curriculum and methodology. Theories of learning and human development are examined so that students who complete the program will be able to make effective instructional decisions.

Preparing potential teachers so they possess these skills requires course work and pre-service experiences that acquaint them with the rich diversity of backgrounds they will find in their classrooms. The program intends to develop dispositions to accept the challenge of teaching all students, regardless of background or learning ability.

The elementary education program develops values aimed at a healthy American society within a world community. Exemplary teachers accept the importance of educating a citizenry who will contribute to society as caring, responsible, and thoughtful citizens.

In addition to pre-service and graduate education programs, the department also serves teachers and local school districts through cooperatively developed in-service education programs. The department supports appropriate change efforts and provides assistance to school districts, government agencies, and the private sector. Applied research in education by faculty members is encouraged and supported.

Finally, the department serves as a resource for instructional improvement for the university community and offers courses that help students meet the demands of university study.

Students completing programs within Elementary Education and Specialized Studies may receive information and be advised through the Teacher Education Advising Office. The advising office is located in the Education Building, Room 206, or by calling 208 426-4217, or by e-mail at: teadv@boisestate.edu.

## Admission Requirements

**Admission to Elementary Teacher Education** Students preparing to become elementary school teachers must be accepted for admission to elementary teacher education. **Admission to elementary teacher education is required before a student may enroll in upper-division teacher education courses, and all admission requirements must be completed before admission will be granted.** Applications are made through the Teacher Education Advising Office in Room E-206.

**Admission Schedules** Application for admission to elementary teacher education is limited to two specific times each year. **Completed applications must be filed within the first eight weeks of the fall or spring semester during which the admission requirements are being completed.** Applications received after those dates will be processed during the following semester.

Students who have already earned a B.A. or B.S. degree are granted provisional admission to elementary teacher education during their first semester at BSU. During this semester, they must complete all requirements for regular admission to elementary teacher education. Students who fail to satisfy any of these requirements during the first semester at BSU will be denied regular admission to elementary teacher education.

**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 specialty areas that have been identified as shortage areas in Idaho. (Shortage areas may change over time.) Consideration is also given to unusually strong candidates who do not meet the GPA requirements if approved by the Teacher Education Professional Standards Committee and the Department Chair.

Screening of applicants is the responsibility of the Teacher Education Professional Standards Committee and the Teacher Education Advising Office.

**Admission Requirements** Requirements for admission to elementary teacher education shall be determined and implemented by the elementary teacher education faculty and administered by the Teacher Education Advising Office. **Students are not accepted until they have completed all requirements for admission. It is the responsibility of the student** to provide the Teacher Education Advising Office with transcripts and other documentation to show that those requirements have been met. The requirements are as follows:

- **Professional Standards** In order to be admitted to elementary teacher education and to continue taking teacher education courses, each student must be reviewed and approved by the Teacher Educational Professional Standards Committee, and must maintain that approval throughout the program. Committee approval is based not only on the student's academic record, but also on the judgment of faculty members regarding the student's knowledge, skills, and disposition necessary for success as a teacher. A further description and discussion of these traits can be found in the *Advising Handbook for Elementary Education* (http://education.boisestate.edu) and in the *Code of Ethics of the Idaho Teaching Profession* (http://sde.state.id.us). The collection and assessment of this information from faculty members and others is an ongoing activity that begins when the student first enters BSU and continues throughout the student's participation in the elementary teacher education program.

  The Professional Standards Committee may exclude from further teacher education course work any student identified as lacking the personal or professional skills, characteristics, or disposition necessary for success as a teacher. A student thus excluded is entitled to due process through normal appeal procedures, as described in the *Boise State University Student Handbook*.

- **Academic Standards** The following academic standards are required for admission to elementary teacher education:
  1. **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 still required.)
  2. **Mathematics and Science.** Students must complete MATH 157 and MATH 257 with a grade of C or better. The final grade in one of those math classes must be at least a 'B'. Neither class can be taken by correspondence. Students must complete two 4-credit laboratory science courses with minimum grades of 'C' in each course.
  3. **Area I and Area II Core Courses.** Students must complete at least six credits in Area I and six credits in Area II, with a minimum grade of 'C' in each course and an average GPA of 2.5 or higher in these courses.
  4. **Teacher Education Pre-Professional Courses.** Elementary education students must complete EDUC 30 and EDUC 230 with a grade of P. They must also complete EDUC 201 and EDUC 203 with a minimum grade of C in each course and an average GPA of at least 2.75 for all teacher education courses.
  5. **Pre-professional Skills Test (for elementary education students, students seeking related endorsements, and secondary students seeking a special education endorsement).** Students in all areas of elementary education, as well as secondary education students seeking endorsements in special education, must earn a passing score on the PRAXIS Pre-professional Skills Test (PPST) in mathematics and writing. Criteria for passing are set by the Department of Elementary Education and Specialized Studies. These tests must be passed prior to admission to elementary education. For registration information please access the PRAXIS web site at http://www.ets.org/praxis/ or pick-up a registration packet in E 206. No other exams will be accepted in lieu of the PRAXIS Preprofessional Skills Test. These tests may not be taken more than three times.

**NOTE:** Any exceptions to the preceding policy must be approved by the department chair.

## Pre-Endorsement Sequence

All students pursuing the B.A. in Elementary Education will complete a 13-hour pre-endorsement sequence of courses in an area of specialization, either inside or outside the College of Education. These pre-endorsement sequences are designed to provide future elementary education teachers with enhanced knowledge and skills in specific and focused areas. Students select their own particular pre-endorsement areas of study. Enrollment caps will be placed upon

pre-endorsement areas as appropriate. At present, pre-endorsement sequences outside the College of Education are in development. In the College of Education, pre-endorsement areas have been developed in the following:

- Bilingual Education/ESL
- Early Childhood Education/Early Childhood Special Education
- Reading
- Special Education
- Technology- Integrating Curriculum Using Technology

Please refer to the course descriptions in the new catalog for specific requirements for the pre-endorsement sequences in each of these areas. For Early Childhood Education/Early Childhood Special Education see Drs. French, Lambert, and Lindsey for advisement.

### Admission to Professional Year in Elementary Education

Students seeking admission to the professional year must file an application with the Office of Field Experiences in the Education Building.

Students wishing to withdraw their application must give six weeks notice prior to the beginning date of their student teaching assignment.

The Office of Field Experiences is responsible for making all professional year assignments.

**The following requirements also apply to all elementary education majors, including those seeking special education and early childhood endorsements and those seeking the elementary education bilingual/ESL degree.**

**Deadlines** Elementary education majors must apply for the professional year during the second semester of their junior year.

The deadline is September 15, 2001 for applicants planning to enroll in the professional year beginning the Spring 2002 semester and February 1, 2002 for applicants planning to enroll in the professional year beginning in the Fall 2002 semester.

**Additional Requirements** To be admitted to the professional year, students must have completed all prerequisite courses. In addition, admission to the professional year requires the following:

1. Senior standing.
2. Recommendation of faculty teaching in the area of emphasis.
3. 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.
4. Passing scores on the Idaho Technology Competency Examination and the Idaho Comprehensive Literacy Competency Examination.

## Special Information on the Professional Year in Elementary Education

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 do 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 he or she is found guilty of any offense which would be grounds for revocation or denial of an Idaho teaching certificate. This includes conviction in a court of law of an offense other than a minor traffic violation. Questions regarding this policy should be addressed either to the coordinator of field experiences in the Education Building or the dean of the College of Education (Education Building, Room 705).
4. The professional year can be taken only once.
5. Students who wish to be placed in kindergarten during the professional year must be enrolled in either the early childhood endorsement program or complete the Early Childhood Education Emphasis of 13 credits.

## Placement Service

A teacher placement service is provided by the Boise State University Career Center. You may contact the Career Center online at http://career.boisestate.edu or call 208 426-1747.

# Degree Requirements

**Elementary Education**
**Bachelor of Arts**

| Course Number and Title | Credits |
|---|---|
| ENGL 101, 102 English Composition<br>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 40 for list of approved courses** | |
| ENGL 277 or 278 Survey of American Literature | 3 |
| Area I core course in a second field of art<br>ART 101, 102 Survey of Western Art; ART 100 Introduction to Art; ART 105 Basic Design; | 3 |
| Area I core course in third field of music<br>MUS 100 Introduction to Music; MUS 101 Survey of Western Art Music. | 3 |
| Area I core course in literature<br>Recommended: ENGL 215 Far Eastern Literature in Translation; ENGL 257/258 Western World Literature; ENGL 267 Survey of British Literature to 1790; ENGL 268 Survey of British Literature: 1790 to Present. | 3 |
| **Area II — see page 40 for list of approved courses** | |
| HIST 111/211, 112/212 United States History | 3 |
| PSYC 101 General Psychology | 3 |
| POLS 101 American National Government **OR**<br>SOC 101 Introduction to Sociology | 3 |
| Area II core course in cultural diversity<br>Chosen from ANTH 102 Cultural Anthropology; GEOG 102 Cultural Geography; HIST 105 Eastern Civilizations, SOC 230 Introduction to Multiethnic Studies. | 3 |
| **Area III — see page 40 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<br>NOTE: Elementary education 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**<br>MUS 374 Music Methods for Elementary School Teacher | 3 |
| EDUC 30 Career Orientation for Elementary Education | 0 |
| EDUC 201 Foundations of Education | 3 |
| EDUC 202 Educational Technology – Classroom Applications | 3 |
| EDUC 203 Educational Psychology | 2 |
| EDUC 210 Cultural Diversity in the Schools | 2 |
| EDUC 220 Child, Family, and Community | 2 |
| EDUC 230 Elementary Child Observation and Tutoring | 1 |
| EDUC 250 Exceptionality in the Schools | 2 |
| EDUC 260 Field Experience in Child Observation and Training | 1 |
| EDUC 261 Field Experience in Diversity and Exceptionality | 1 |
| EDUC 340 Comprehensive Literacy | 3 |
| EDUC 341 Language Arts through Children's Literature | 3 |
| EDUC 360 Field Experiences in Developmental Literacy | 1 |
| EDUC 430 Professional Year Seminar | 1 |
| EDUC 436 Elementary Social Studies Curriculum and Methods | 2 |
| EDUC 437 Elementary Science Curriculum and Methods | 2 |
| EDUC 438 Elementary Mathematics Curriculum and Methods | 2 |
| EDUC 439 Elementary Classroom Management Skills | 2 |
| EDUC 440 Content Area Literacy Development-K-8 | 2 |
| EDUC 460 Professional Year I | 5 |
| EDUC 461 Professional Year II: Teaching Experience in Elementary Education | 7 |

*— continued —*

| *Elementary Education (continued)* | |
|---|---|
| One of the following: EDUC 462, 463, 464, 465, 466, 467, 468, or 469 | 7 |
| GEOG 210 Survey of World Regional Geography | 3 |
| KINES 355 Elementary School Health and PE Curriculum and Instruction | 3 |
| MATH 157 Structure of Arithmetic for Teachers | 4 |
| Pre-Endorsement Areas | 13 |
| Upper-division American government<br>Chosen from POLS 301 American Political Parties and Interest Groups; POLS 302 Pub Opinion and Voting Behavior; POLS 308 Urban Politics; POLS 309 American Chief Executive; POLS 312 Legislative Behavior; POLS 320 American Policy Process; POLS 331 American Political Theory; POLS 351 Constitutional Law; POLS 381 American Political Economy. | 3 |
| Upper-division cultural diversity<br>Chosen from ANTH 311 Peoples and Cultures of the World; ANTH 315 Indian Peoples of Idaho; ENGL 391 North American Indian Folklore and Literature; SOC 305 Racial and Cultural Minorities; SOC 340 Sociology of the Family; SOC 351 Social Institutions. | 3 |
| Total | 128 |

## Elementary Education Bilingual/ESL Bachelor of Arts

| Course Number and Title | Credits |
|---|---|
| ENGL 101, 102 English Composition<br>NOTE: Students not required to take ENGL 101 must complete an additional 3 credits of English. For certification purposes, bilingual/multicultural 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 40 for list of approved courses** | |
| ENGL 277 or 278 Survey of American Literature | 3 |
| SPAN 201, SPAN 202, or SPAN 201, SPAN 203, or SPAN 208 Intermediate Spanish | 8 |
| Area I core course in a third field (ART 100 recommended) | 3 |
| **Area II — see page 40 for list of approved courses** | |
| ANTH 102 Cultural Anthropology | 3 |
| HIST 111 or 112 U. S. History | 3 |
| PSYC 101 General Psychology | 3 |
| SOC 230 Introduction to Multiethnic Studies | 3 |
| **Area III — see page 40 for list of approved courses** | |
| BIOL 100 Concepts of Biology | 4 |
| MATH 257 Geometry and Probability for Teachers | 4 |
| Area III core course in a third field<br>NOTE: Bilingual/ESL majors must have courses in at least two of the following disciplines: biological sciences, earth science, or physical science. | 4 |
| ART 321 Elementary School Art Methods **OR** MUS 374 Music Methods for Elementary School Teacher | 3 |
| EDUC 30 Career Orientation for Elementary Education | 0 |
| EDUC 201 Foundations of Education | 3 |
| EDUC 202 Educational Technology – Classroom Applications | 3 |
| EDUC 211 Foundations of Teaching Bilingual Education/ESL | 3 |
| EDUC 212 Mexican-American Tradition and Culture | 2 |
| EDUC 220 Child Family and Community | 2 |
| EDUC 230 Elementary Child Observation and Tutoring | 1 |
| EDUC 250 Exceptionality in the Schools | 2 |
| EDUC 260 Field Experience in Child Observation and Tutoring | 1 |
| EDUC 261 Field Experience in Diversity and Exceptionality | 1 |
| EDUC 310 Identification and Diagnosis of LEP Students | 3 |
| EDUC 311 Teaching Reading Bilingually | 1 |
| EDUC 312 Teaching Content in the Bilingual Classroom | 3 |
| EDUC 313 Methods of Teaching English as a Second Language | 3 |
| EDUC 314 Spanish for the Bilingual Classroom | 2 |
| EDUC 340 Comprehensive Literacy | 3 |
| EDUC 341 Language Arts through Children's Literature | 3 |
| EDUC 360 Field Experience in Developmental Literacy | 1 |
| EDUC 361 Field Experience in the Bilingual or ESL Classroom | 1 |
| EDUC 430 Professional Year Seminar | 1 |
| EDUC 436 Elementary Social Studies Curriculum and Instruction | 2 |
| EDUC 437 Elementary Science Curriculum and Instruction | 2 |
| EDUC 438 Elementary Mathematics Curriculum and Instruction | 2 |
| EDUC 439 Elementary Classroom Management Skills | 2 |

*— continued —*

| *Elementary Education Bilingual/ESL (continued)* | |
|---|---|
| EDUC 440 Content Area Literacy Development K-8 | 2 |
| EDUC 460 Professional Year I | 5 |
| EDUC 461 Professional Year II: Teaching Experience in Elementary Education | 7 |
| EDUC 469 Professional Year III: Teaching Experience in Bilingual Education | 7 |
| KINES 355 Elementary School Health and PE Curriculum and Instruction | 3 |
| LING 305 Introduction to Language Studies | 3 |
| MATH 157 Structure of Arithmetic for Teachers | 4 |
| *+SPAN 303 Advanced Spanish Conversation and Composition | 3 |
| Total | 128 |

NOTE: *Students who successfully complete SPAN 303 with a grade of 'C' or better may apply for credit for prerequisites not taken and may use SPAN 201, 202, 203 or 208 in fulfillment of Area I core requirements.
**Students must take this class in order to student teach in a kindergarten classroom.
+ Prior to the professional (senior) year, Bilingual Education/ESL majors must demonstrate oral and written proficiency in Spanish by successfully passing the EESS Department's Spanish Proficiency Assessment.
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.

## Programs and Endorsements
## Elementary Education Major (Grades 1-8)

The programs of studies listed above are the curricula for the B.A. degrees in elementary education. They prepare students to teach in grades 1-8. The endorsements within the B.A. degrees in elementary education are based on the programs but require additional course work and permit certain substitutions of alternate courses.

# Subject Area Endorsements

Students majoring in elementary education should 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.**

NOTE: Suggested lists of courses for each subject area endorsement are available from the Teacher Education Advising Office.

**American Government** — 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** — 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.)

**Consumer Economics** — Requires an endorsement in social studies, home economics, business education, agriculture, basic business, or marketing and have 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** — 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.

**English** — 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.

**Foreign Languages** — Credits must be at the 200-level or above in the language in which the endorsement is sought.

**Health Education** — Credits distributed to include course work in health instructional areas, science applicable to health education, organization and administration of health education and methodology.

**History** — 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** — 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** — 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.

**Music** — 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.

**Physical Education** — 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.

**Biological Science** — Credits distributed in the areas of botany and zoology, including at least six semester credit hours in each. Some work in physiology is recommended.

**Physical Science** — Twenty semester credit hours to include at least eight semester credits in chemistry and eight semester credits in physics.

**Natural Science** — 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.

**Reading Pre-Endorsement** — is intended to provide elementary education majors with 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 if needed.

**Reading Pre-Endorsement**

| Course Number and Title | Credits |
|---|---|
| EDUC 347 Writing Process and Assessment for K-8 Classrooms<br>EDUC 348 Reading Diagnosis and Intervention<br>EDUC 364 Field Experience in Literacy | 3<br>3<br>1 |
| Any course listed under the Reading Endorsement K-12 | 3 |
| LING 305 Introduction to Language Studies **OR**<br>LING 306 Modern English Grammar **OR**<br>LING 406 Psycholinguistics | 3 |
| Total | 13 |

**Reading** — The endorsement in reading provides enhanced depth and breadth of course work in reading 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 EDUC 347 (3 credits). One additional credit hour taken from Area VI: Electives will count towards this endorsement.

**Reading Endorsement K-12**

| Course Number and Title | Credits |
|---|---|
| Area I: Foundations of Developmental Reading<br>*EDUC 340 Comprehensive Literacy<br>*EDUC 360 Field Experience in Developmental Literacy | <br>3<br>1 |
| Area II: Reading in the Content Area<br>EDUC 402 Content Literacy for Secondary Students<br>*EDUC 440 Content Area Literacy Development K-8 | <br>3<br>2 |
| Area III: Corrective/Diagnostic/Remedial Reading<br>EDUC 348 Reading Diagnosis and Intervention<br>EDUC 364 Field Experience in Literacy | <br>3<br>1 |
| Area IV: Psycholinguistics/Language Development and Reading<br>LING 305 Introduction to Language Studies **OR**<br>LING 306 Modern English Grammar **OR**<br>LING 406 Psycholinguistics | <br>3 |
| Area V: Literature for Children or Adolescents<br>EDUC 341 Language Arts through Children's Literature<br>ENGL 481 Literature for Use in Junior and Senior High Schools | 3 |
| Area VI: Electives to total 20 credits from the following list<br>EDUC 311 Teaching Reading Bilingually<br>EDUC 347 Writing Process and Assessment for K-8 Classrooms<br>EDUC 352 Differentiated Instruction for Academic Skills<br>EDUC 493 Internships in Reading (Reading/Study Skills Internship with UNIV 105 and Internship in Classrooms)<br>EDUC 494 Workshops in Reading<br>EDUC 496 Independent Study in Reading | 1 |
| Total | 20 |

**Social Studies** — 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 at least four of the following fields to be represented: world history, geography, sociology, economics, anthropology, and political science.

**Speech** — 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.

In addition to the above, student may select from the following:

**Special Education Pre-Endorsement Area** Students majoring in Elementary Education who pursue the pre-endorsement area in Special Education receive additional skills in curricular and instructional accommodations for successful inclusive classrooms. This professional preparation assists K-8 teachers in making elementary school programs more accessible for all students, including those who have disabilities.

| Pre-Endorsement Area in Special Education | |
|---|---|
| **Course Number and Title** | **Credits** |
| EDUC 251 Collaboration in the School and Community | 2 |
| EDUC 252 Assistive Technology | 1 |
| EDUC 351 Access to the General Education Curriculum | 1 |
| EDUC 352 Differentiated Instruction for Academic Skills | 2 |
| EDUC 353 Differentiated Instruction in the Content Areas | 2 |
| EDUC 354 Assessment for Differentiated Instruction | 2 |
| EDUC 355 Positive Behavior Intervention | 2 |
| EDUC 365 Field Experience in Special Education | 1 |
| Total | 13 |

**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 Elementary Education and Specialized Studies. Students should plan their programs early, consulting with the Teacher Education Advising Office and 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 |
| EDUC 356 Instruction for Students with Severe Disabilities | 2 |
| EDUC 357 Formal Assessment for Special Education | 2 |
| EDUC 451 Special Education and the Law | 2 |
| EDUC 452 Instruction for Adolescents with Disabilities | 2 |
| Total | 21 |
| NOTE: In addition to the above courses, for Elementary Education students the Idaho Special Education Generalist K-12 Endorsement also requires EDUC 250, EDUC 261, EDUC 340, EDUC 360 and EDUC 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 EDUC 350, EDUC 301, EDUC 340, EDUC 360 and EDUC 467. EDUC 350 and EDUC 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 |
| EDUC 468 Professional Year III: Teaching Experience in Spec. Educ. Severe Disabilities | 7 |
| TEACH-ED 423 Teaching Students with Moderate and Severe Disabilities | 3 |
| Total | 10 |

**Early Childhood Education/Early Childhood Special Education (ECE/ECSE) Pre-Endorsement** prepares individuals to work effectively with young children, both typically and atypically developing.

| Early Childhood Education/Early Childhood Special Education (ECE/ECSE) Pre-Endorsement | |
|---|---|
| **Course Number and Title** | **Credits** |
| EDUC 221 Foundations of Professional Practices: ECE/ECSE | 2 |
| EDUC 320 Language Development, Assessment, and Intervention: ECE/ECSE | 2 |
| EDUC 321 Family and Community Relations: ECE/ECSE | 2 |
| EDUC 322 Kindergarten Environments/Materials/Programs: ECE/ECSE | 2 |
| EDUC 323 Assessment and Program Planning for Kindergarten-Age Children: ECE/ECSE | 1 |
| EDUC 324 Primary Grade Environments/Materials/Programs: ECE/ECSE | 2 |
| EDUC 325 Assessment and Program Planning for Primary-Age Children: ECE/ECSE | 1 |
| EDUC 362 Field Experience in Programs for Young Children: ECE/ECSE in K-3 | 1 |
| Total | 13 |

**Child Development Associate (CDA) Program** The Child Development Associate Program is a nationally recognized credential for teachers of young children working in Head Start and child care homes and centers. The specialized area of Early Childhood Education coordinates acceptance of credits from the Child Development Associate Program. To be eligible to register for the courses listed below, a student must meet university admissions requirements and be enrolled in the CDA Program on campus.

| Child Development Associate (CDA) Program | |
|---|---|
| **Course Number and Title** | **Credits** |
| EDUC 161 CDA: Planning a Safe, Healthy Environment | 1 |
| EDUC 162 CDA: Steps to Adv Children's Phys & Intel Competence | 3 |
| EDUC 163 CDA: Positive Ways to Support Child Soc & Emot Develop | 3 |
| EDUC 164 CDA: Strategies to Establish Productive Relation with Fam | 1 |
| EDUC 165 CDA: Strategies to Manage an Effective Program | 1 |
| EDUC 166 CDA: Maintaining a Commitment to Professionalism | 1 |
| EDUC CDA: Observing and Recording Children's Behavior | 1 |
| EDUC 168 CDA: Principles of Child Growth and Development | 1 |
| Total | 12 |

**Technology - Integrating Curriculum Using Technology Pre-Endorsement Area** The Integrating Curriculum Using Technology pre-endorsement area addresses the growing need for the integration of technology into the content areas.

| Technology - Integrating Curriculum Using Technology Pre-Endorsement Area | |
|---|---|
| **Course Number and Title** | **Credits** |
| EDUC 331 Integrating Elementary Curriculum Using Software and Tools | 3 |
| EDUC 332 Integrating Internet Resources Into the Curriculum | 3 |
| EDUC 333 Integrating Curriculum Using Visual Technology | 3 |
| EDUC 363 Field Experience: Implementing Technology Into the Classroom | 1 |
| TEACH-ED 408 Integrating Technology Into Classroom Curricula | 3 |
| Total | 13 |

# Certification Requirements for Elementary Education

Students from Boise State University are recommended for an elementary teaching certificate to the State Department of Education after meeting the following requirements:

1. Completion of the bachelor of arts degree in elementary education or the bachelor of arts degree in bilingual/ESL.
2. A satisfactory experience in student teaching (as determined by the department of elementary education and specialized studies).
3. A recommendation by the dean of the College of Education indicating that the candidate has the approval of the department of elementary education and specialized studies. Such approval is to be based primarily on evidence of knowledge of subject matter taught, demonstrated teaching techniques, and ability and aptitude to work with students and adults.
4. Students with previously earned degrees may develop individual programs approved by the department of elementary education and specialized studies. The programs may include graduate courses applicable to a master's degree. For more information, contact the Teacher Education Advising Office.

# Course Offerings

**See page 53 for a definition of the course-numbering system.**

**EDUC — EDUCATION**

**Lower Division**

**EDUC 30 CAREER ORIENTATION FOR ELEMENTARY EDUCATION (1-0-0)(F/S).** Orientation to the field of elementary education including the nature of elementary teaching, expectations of the profession, specialty areas, and related career possibilities. They will also receive information about the nature of the elementary education programs and their specific requirements. (Pass/Fail).

**EDUC 161 CDA: PLANNING A SAFE, HEALTHY LEARNING ENVIRONMENT (1-0-1)(S).** Participants in this course will acquaint themselves with three critical areas of establishing an early childhood education environment through: (1) maintaining the physical safety of children in their care, (2) promoting good habits in health and nutrition of children and teachers, and (3) establishing effective room arrangements, classroom routines, and schedules which are supportive of the teacher's goals for children. PREREQ: Enrollment in the CDA program.

**EDUC 162 CDA: STEPS TO ADVANCE CHILDREN'S PHYSICAL AND INTELLECTUAL COMPETENCE (3-0-3)(S).** Participants will have an opportunity to explore the ideas of (1) how children think and learn, and (2) how to teach in an early childhood program in ways which foster competence in the cognitive, physical, communicative, and creative domains of development. Emphasis will be on establishing an environment for learning, including choosing materials and activities, and developing teaching skills to foster physical and intellectual competence. PREREQ: Enrollment in the CDA program.

**EDUC 163 CDA: POSITIVE WAYS TO SUPPORT CHILDREN'S SOCIAL AND EMOTIONAL DEVELOPMENT (3-0-3)(S).** Participants will be able to examine their own biases and how their personal vision of children affects their work with them. Participants will acquire and/or refine the knowledge and skills required to support children's (1) developing sense of self, (2) growing sense or competence in managing social relationships, and 3) increasing self-control and self-discipline. PREREQ: Enrollment in CDA program.

**EDUC 164 CDA: STRATEGIES TO ESTABLISH PRODUCTIVE RELATIONSHIPS WITH FAMILIES (1-0-1)(S).** Participants will become skilled and knowledgeable in establishing partnerships with parents by (1) becoming knowledgeable about family types, (2) understanding diversity of families, (3) becoming skilled in communicating with parents, and (4) involving them in the education of their child. PREREQ: Enrollment in the CDA program.

**EDUC 165 CDA: STRATEGIES TO MANAGE AN EFFECTIVE PROGRAM OPERATION (1-0-1)(S).** Participants will develop a systematic approach to running an early childhood program that includes (1) determining the needs of the program, children, and families, (2) making plans and problem-solving solutions based on the identified needs, (3) keeping accurate records of needs, plans, and practices, and (4) using various means for meeting needs, including written notices, group meetings, and informal discussions. PREREQ: Enrollment in the CDA program.

**EDUC 166 CDA: MAINTAINING A COMMITMENT TO PROFESSIONALISM (1-0-1)(S).** Participants will become acquainted with different aspects of professionalism in early childhood education, with emphasis on early childhood teacher's professional relationship with children, families, colleagues, employers, and the community. PREREQ: Enrollment in the CDA program.

**EDUC 167 CDA: OBSERVING AND RECORDING CHILDREN'S BEHAVIOR (1-0-1)(S).** Participants will develop skill in carefully observing children from birth through age 5, with emphasis on objectively observing behavior in everyday routines and play activities. Participants will develop an appreciation of observation as a way to obtain information about individual children's strengths, needs, and preferences. Application of observation information to appropriate curriculum development will be introduced. PREREQ: Enrollment in the CDA program.

**EDUC 168 CDA: PRINCIPLES OF CHILD GROWTH AND DEVELOPMENT (1-0-1)(S)**. Participants will become familiar with development of the young child by examining typical characteristics and individual differences. Students are introduced to atypical development in an application format. Emphasis will be on using developmental information in planning appropriate activities for children in early childhood classrooms and establishing appropriate expectations of children at various ages. PREREQ: Enrollment in the CDA program.

**EDUC 203 EDUCATIONAL PSYCHOLOGY (2-0-2).** Introduction to educational psychology, principles of psychology to instruction, theories of learning, cognitive development, motivation and self-concept, and educational measurement. Designed primarily for Elementary Education majors. PREREQ: PSYC 101.

**EDUC 210 CULTURAL DIVERSITY IN THE SCHOOL (2-0-2)(F/S).** 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 eduction for social justice and equity. PREREQ: EDUC 260. COREQ: EDUC 261 and EDUC 250.

**EDUC 211 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.

**EDUC 212 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: EDUC 250 and EDUC 261.

**EDUC 220 CHILD FAMILY AND COMMUNITY (2-0-2)(F/S).** Emphasis on children's development and its universal characteristics across all cultures and individual variations from conception through middle childhood (age 12). Family and community influences are examined as they relate to development and learning. PREREQ: PSYC 101. COREQ: EDUC 203, EDUC 230, and EDUC 260. (NOTE: Bilingual Education/ESL students are exempt from EDUC 203).

**EDUC 221 FOUNDATIONS OF PROFESSIONAL PRACTICES: ECE/ECSE (2-0-2)(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.

**EDUC 230 ELEMENTARY CHILD OBSERVATION AND TUTORING (1-0-1)(F/S).** Introduction to teaching children in elementary school including beginning lesson planning, developing appropriate materials, guidelines for interactions with children, and techniques for tutoring. Students will reflect on field experiences and their career choice of elementary teaching. PREREQ: EDUC 30. COREQ: EDUC 203, EDUC 220, and EDUC 260. (NOTE: Bilingual Education/ESL students are exempt from EDUC 203).

**EDUC 250 EXCEPTIONALITY IN THE SCHOOLS (2-0-2)(F/S).** An overview of student ability and disability in the schools, including characteristics of students with disabilities, legal requirements for educating students with disabilities, and basic educational strategies. PREREQ: EDUC 260. COREQ: EDUC 210 and EDUC 261.

**EDUC 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.

**EDUC 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: EDUC 250, EDUC 350, or EDUC 550. PREREQ/COREQ: EDUC 202.

**EDUC 260 FIELD EXPERIENCE IN CHILD OBSERVATION AND TUTORING (0-3-1)(F/S).** Key concepts of educational psychology, child, family and community, and observation and tutoring will be applied in this field course. Fifty hours are required in a field placement. (Pass/Fail). PREREQ: EDUC 30. COREQ: EDUC 203, EDUC 220 and EDUC 230. (NOTE: Bilingual Education/ESL students are exempt from EDUC 203).

**EDUC 261 FIELD EXPERIENCE IN DIVERSITY AND EXCEPTIONALITY (0-3-1)(F/S).** Collaborative tutorial experiences with elementary public school students, with primary emphasis on working with students who have diverse cultural backgrounds, and with those who have exceptional learning needs. Fifty hours are required in a field placement. (Pass/Fail). PREREQ: EDUC 260. COREQ: EDUC 210 and EDUC 250. (NOTE: corequisite for bilingual education/ESL majors: EDUC 212 and EDUC 250.)

**Upper Division**

**EDUC 310 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: Admission to teacher education and SPAN 202. PREREQ/COREQ: EDUC 211.

**EDUC 311 TEACHING READING BILINGUALLY (1-0-1)(F).** 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: Admission to Teacher Education, SPAN 202, or SPAN 203, or SPAN 208, and either EDUC 211 or PERM/INST. PREREQ/COREQ: EDUC 340.

**EDUC 312 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: Admission to Teacher Education and SPAN 202, or PERM/INST.

**EDUC 313 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: Admission to Teacher Education and EDUC 211.

**EDUC 314 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. PREREQ/COREQ: SPAN 303. COREQ: EDUC 361.

**EDUC 320 LANGUAGE DEVELOPMENT, ASSESSMENT, AND INTERVENTION: ECE/ECSE (2-0-2)(F).** Typical and atypical language development of young children, from birth through grade three. PREREQ: Admission to Teacher Education. PREREQ/COREQ: EDUC 221.

**EDUC 321 FAMILY AND COMMUNITY RELATIONS: ECE/ECSE (2-0-2)(F).** Partnering with families of young children, both typically and atypically developing. Family systems theory, roles and functions of special service colleagues, and community resources. PREREQ: Admission to Teacher Education. PREREQ/COREQ: EDUC 221.

**EDUC 322 KINDERGARTEN ENVIRONMENTS/MATERIALS/PROGRAMS: ECE/ECSE (2-0-2)(S).** Overview of general education curriculum in kindergarten. Developmentally appropriate learning environments and materials for children with and without special needs. PREREQ: Admission to Teacher Education and EDUC 221. COREQ: EDUC 323, EDUC 324, EDUC 325, and EDUC 362.

**EDUC 323 ASSESSMENT AND PROGRAM PLANNING FOR KINDERGARTEN-AGE CHILDREN: ECE/ECSE (1-0-1)(S).** 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 and EDUC 221. COREQ: EDUC 322, EDUC 324, EDUC 325, and EDUC 362.

**EDUC 324 PRIMARY GRADE ENVIRONMENTS/MATERIALS/PROGRAMS: ECE/ECSE (2-0-2)(S).** Overview of general education curriculum and primary grades 1-3. Developmentally appropriate learning environments for young children, both typically and atypically developing. PREREQ: Admission to Teacher Education and EDUC 221. COREQ: EDUC 322, EDUC 323, EDUC 325, and EDUC 362.

**EDUC 325 ASSESSMENT AND PROGRAM PLANNING FOR PRIMARY-AGE CHILDREN: ECE/ECSE (1-0-1)(S).** Formal and informal assessment with emphasis on program planning in grades 1-3. Procedures for screening and eligibility determination, and development of Individualized Education Plans. PREREQ: Admission to Teacher Education and EDUC 221. COREQ: EDUC 322, EDUC 323, EDUC 324, and EDUC 362.

**EDUC 331 INTEGRATING ELEMENTARY CURRICULUM USING SOFTWARE AND TOOLS (3-0-3)(F).** Integrating instruction of elementary language arts, mathematics, science and social studies curricula using tool software, computer assisted instruction programs and specific tools, such as data collection hardware and software. PREREQ: Admission to Teacher Education and EDUC 202.

**EDUC 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 EDUC 202.

**EDUC 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 EDUC 202.

**EDUC 340 COMPREHENSIVE LITERACY (3-0-3)(F/S).** Provides pre-service teachers with knowledge and strategies in three areas: language structure, comprehension, and assessment and intervention. Promotes effective developmental literacy instruction in grades K-3. Prepares pre-service teachers to meet the literacy requirements, including language arts, for an Idaho teaching credential. Successful completion of the Pre-service Assessment Measure is required in order to pass the course. PREREQ: Admission to Teacher Education. COREQ: EDUC 360.

**EDUC 341 LANGUAGE ARTS THROUGH CHILDREN'S LITERATURE (3-0-3)(F/S).** Provides skills in teaching children speaking, listening, reading, writing, and viewing through a survey of children's literature. Emphasis on selection of children's literature appropriate to the needs of all students. PREREQ: Admission to Teacher Education.

**EDUC 347 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 EDUC 340.

**EDUC 348 READING DIAGNOSIS AND INTERVENTION (3-0-3)(F).** 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, EDUC 340, and EDUC 341. COREQ: EDUC 364.

**EDUC 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 EDUC 250, EDUC 350, or EDUC 550. PREREQ/COREQ: EDUC 202.

**EDUC 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/COREQ: EDUC 351.

**EDUC 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/COREQ: EDUC 351.

**EDUC 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/COREQ: EDUC 351.

**EDUC 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.

**EDUC 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 and EDUC 252.

**EDUC 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: EDUC 252 and EDUC 355.

**EDUC 360 FIELD EXPERIENCE IN DEVELOPMENTAL LITERACY (0-3-1)(F/S).** A fifty-hour field experience in literacy with emphasis on small group instruction. Focus will be on the application of developmental literacy strategies (including beginning reading skills, comprehension, language arts, and assessment) from the Comprehensive Literacy course. Prepares pre-service teachers for the Pre-Service Assessment Measure and meets language arts requirements for an Idaho teaching credential. (Pass/Fail). PREREQ: Admission to Teacher Education. COREQ: EDUC 340.

**EDUC 361 FIELD EXPERIENCE IN THE BILINGUAL OR ESL CLASSROOM (0-3-1)(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, forms, newsletters, and other written items, and provide oral translation and interpretation in the classroom setting. PREREQ: SPAN 202. COREQ: EDUC 314.

**EDUC 362 FIELD EXPERIENCE IN PROGRAMS FOR YOUNG CHILDREN: ECE/ECSE IN K- 3 (0-3-1)(S).** Planning and implementing programs for young children, both typically and atypically developing, in a field setting. Minimum of 50 hours in a field placement required. (Pass/Fail). PREREQ: Admission to Teacher Education. COREQ: EDUC 322, EDUC 323, EDUC 324, EDUC 325 or PERM/ INST.

**EDUC 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: EDUC 331 or EDUC 332 or EDUC 333.

**EDUC 364 FIELD EXPERIENCE IN LITERACY (0-3-1)(F).** Literacy-related activities including a variety of skills in the area of reading, writing, and literacy assessment. COREQ: EDUC 348.

**EDUC 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. PREREQ/COREQ: EDUC 251, 252, 351, 352, 353, 354, 355.

**EDUC 430 PROFESSIONAL YEAR SEMINAR (1-0-1)(F/S).** A capstone seminar coordinated with Professional Year II and III experiences in partnership schools, focusing

on reflection, analysis, planning, and problem-solving in the schools. (Pass/Fail). COREQ: EDUC 461 and one of the following: EDUC 462, EDUC 463, EDUC 464, EDUC 465, EDUC 466, EDUC 467, EDUC 468, or EDUC 469.

**EDUC 436 ELEMENTARY SOCIAL STUDIES CURRICULUM AND INSTRUCTION (2-0-2)(F/S).** Examines elementary social studies curricula, philosophy, and goals. A variety of methods and materials are presented and evaluated in accordance with developmental theory. Emphasis is placed on the six strands of social studies, values in a democratic society, and global issues. These areas are integrated across the curriculum, emphasizing process, critical thinking, technology, and assessment. PREREQ: Admission to Professional Year. COREQ: EDUC 437, EDUC 438, EDUC 439, EDUC 440, and EDUC 460.

**EDUC 437 ELEMENTARY SCIENCE CURRICULUM AND INSTRUCTION (2-0-2)(F/S).** Examines elementary science curricula, philosophy, and goals. Students will develop activities that are consistent with national standards, developmental stages of elementary students, and school district curricula. Students will plan inquiry lessons and hands-on activities that emphasize science process skills and the understanding for concepts. PREREQ: Admission to the Professional Year. COREQ: EDUC 436, EDUC 438, EDUC 439, EDUC 440, and EDUC 460.

**EDUC 438 ELEMENTARY MATHEMATICS CURRICULUM AND INSTRUCTION (2-0-2)(F/S).** Examines elementary mathematics curricula, philosophy, and goals. Students will develop activities that are consistent with national standards, developmental stages of elementary students, and school district curricula. Emphasis on problem-solving skills and use of manipulatives to understand concepts. PREREQ: Admission to Professional Year. COREQ: EDUC 436, EDUC 437, EDUC, 439, EDUC 440, and EDUC 460.

**EDUC 439 ELEMENTARY CLASSROOM MANAGEMENT SKILLS (2-0-2)(F/S).** Provides prospective teachers with classroom management skills and strategies. Students will learn to organize a class to prevent problems and to utilize varied strategies to deal with misbehavior and to support appropriate behavior. Communicating and collaborating with parents will be addressed. PREREQ: Admission to Professional Year. COREQ: EDUC 436, EDUC 437, EDUC 438, EDUC 440, and EDUC 460.

**EDUC 440 CONTENT AREA LITERACY DEVELOPMENT K-8 (2-0-2)(F/S).** Extension of literacy skills to the concepts and learning tasks demanded by content area subjects. Emphasis on assisting learners in developing comprehension strategies, study skills, and metacognition. PREREQ: Admission to Professional Year. COREQ: EDUC 436, EDUC 437, EDUC 438, EDUC 439, and EDUC 460.

**EDUC 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: EDUC 252 and EDUC 355.

**EDUC 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 service. PREREQ/COREQ: EDUC 252, EDUC 351, EDUC 353, EDUC 355.

**EDUC 460 PROFESSIONAL YEAR I (0-17-5)(F/S).** Participation in partnership schools, focusing on activities related to planning and preparation, classroom environments, curriculum and instruction, and professional responsibilities. Students will complete a minimum of 250 hours in the schools consistent with the calendars of the assigned partnership schools. Students will apply knowledge and skills from the corequisite curriculum and instruction course work, as well as from all prerequisite professional education course work, and will participate in weekly seminars. (Pass/Fail). PREREQ: Admission to the Professional Year. COREQ: EDUC 436, EDUC 437, EDUC 438, EDUC 439, EDUC 440.

**EDUC 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: EDUC 460, EDUC 436, EDUC 437, EDUC 438, EDUC 439, EDUC 440. COREQ: EDUC 430.

**EDUC 462 PROFESSIONAL YEAR III: TEACHING EXPERIENCE IN EARLY CHILDHOOD EDUCATION (0-21-7)(F/S).** The concluding teaching experience in the Professional Year for students pursuing an endorsement in Early Childhood Education, with a full-time teaching experience in an early childhood education classroom. Students will complete a teaching experience consistent with the calendars of the assigned partnership schools. (Pass/Fail). PREREQ: EDUC 461, completion of all Early Childhood Education requirements. COREQ: EDUC 430.

**EDUC 463 PROFESSIONAL YEAR III: TEACHING EXPERIENCE IN EARLY CHILDHOOD SPECIAL EDUCATION (0-21-7)(F/S).** The concluding teaching experience in the Professional Year for students pursuing an endorsement in Early Childhood Special Education, with a full-time teaching experience in an early childhood special education classroom. Students will complete a teaching experience consistent with the calendars of the assigned partnership schools. (Pass/Fail). PREREQ: EDUC 461, completion of all Early Childhood Special Education requirements. COREQ: EDUC 430.

**EDUC 464 PROFESSIONAL YEAR III: TEACHING EXPERIENCE IN PRIMARY ELEMENTARY EDUCATION (0-21-7)(F/S).** The concluding teaching experience in the Professional Year for students interested in primary elementary education, with a full-time teaching experience in a primary elementary education classroom. Students will complete a teaching experience consistent with the calendars of the assigned partnership schools. (Pass/Fail). PREREQ: EDUC 461, completion of all Elementary Education requirements. COREQ: EDUC 430.

**EDUC 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: EDUC 461, completion of all Elementary Education requirements. COREQ: EDUC 430.

**EDUC 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: EDUC 461. COREQ: EDUC 430.

**EDUC 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: EDUC 461, completion of all Special Education Generalist requirements. COREQ: EDUC 430.

**EDUC 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 an endorsement in Special Education Severe Disabilities, with a full-time teaching experience in an special education severe disabilities classroom. Students will complete a teaching experience consistent with the calendars of the assigned partnership schools. (Pass/Fail). PREREQ: EDUC 461, completion of all Special Education Severe Disabilities requirements. COREQ: EDUC 430.

**EDUC 469 PROFESSIONAL YEAR III: TEACHING EXPERIENCE IN BILINGUAL EDUCATION (0-21-7)(F/S).** The concluding teaching experience in the Professional Year for students pursuing an endorsement in Bilingual Education, with a full-time teaching experience in a bilingual classroom. Students will complete a teaching experience consistent with the calendars of the assigned partnership schools. (Pass/Fail). PREREQ: EDUC 460, EDUC 461, completion of Bilingual Education requirements. COREQ: EDUC 430.

**EDUC 490 PRACTICUM IN EARLY CHILDHOOD SPECIAL EDUCATION (0-20-3).** Students enrolling in this course shall be placed in an education program designed for the preschool handicapped. Specific needs of the individual student shall dictate placement and the type of experiential exposure. It is the intent of this course to develop a person with the skills required to teach the preschool handicapped. PREREQ: Admission to teacher education, PERM/INST.

# Teacher Education, Department of Foundations, Technology and Secondary Education

Education Building, Room 204 — Telephone 208 426-1672
Advising Office — Telephone: 208 426-1964
http://education.boisestate.edu/seced/ — Fax 208 426-4006
e-mail: awitter@boisestate.edu

*Chair and Associate Professor:* Stephen Christensen. *Professors* Anderson, Armstrong, Barr, Lyons, Parrett, Pollard, Stewart, Thorsen. *Associate Professors:* Dubert, Willison. *Assistant Professors:* Harrison, Rogien. *Professional Staff:* Foster, Smith, Vakili.

## Degrees Offered

- M.A. and M.S. in education with emphases in art, curriculum and instruction, earth sciences, educational technology, and mathematics. (See the *BSU Graduate Catalog.*)
- Doctor of Education in curriculum and instruction (See the *BSU Graduate Catalog.*)
- Secondary education professional courses for teacher certification in grades 6-12

Undergraduate students seeking secondary certification must complete a bachelor's degree within the university department offering the content courses in their chosen subject area. Professional course work for the secondary education option is taken in the department of foundations, technology, and secondary education. Students are encouraged to visit the Teacher Education Advising Office, Education Building, Room 206 for questions relating to teacher education or visit our web site http://education.boisestate.edu/teao/.

Students seeking secondary certification who already hold a B.A. or B.S. degree must apply to the BSU Graduate Admissions Office. The Graduate Admissions Office will notify the applicant when to contact the department of foundations, technology, and secondary education. Academic advising and program coordination for post-B.A./B.S. teacher education applicants is conducted by the department of foundations, technology, and secondary education.

Students with previously earned degrees may develop individualized programs with the approval of the department of foundations, technology, and secondary education. The programs may include graduate courses applicable to a master's degree. For more information, contact the Teacher Education Advising Office.

## Department Statement

Reflective teachers adjust their teaching approaches and learning environment to the needs and backgrounds of their students. The programs in teacher education are designed to assist students in developing the knowledge, skills, values, and dispositions essential for success in teaching. The programs are based on two assumptions: that successful teachers are committed to acquisition of and continuous renewal of knowledge in the substantive areas they teach, and that they are also committed to development of pedagogy conducive to a high level of achievement for all students. Therefore, course work combines content knowledge with the study of curriculum and methodology. In addition, theories of learning and human development are examined so that teachers who complete this program will be able to make effective instructional decisions having demonstrated evidence of meeting the Idaho Beginning Teacher Standards.

Preparing potential teachers so they possess these skills requires course work and experiences that acquaint them with the rich diversity they will find in their classrooms. Through this course work and these experiences, students develop dispositions to accept the challenge of teaching all students.

The programs in teacher education emphasize the development of values aimed at a healthy society within a global community. Exemplary teachers accept the importance of educating a citizenry who will contribute to society as caring, responsible, and thoughtful citizens.

## Admission to Secondary Teacher Education

**Admission Requirements** Students preparing to become secondary school teachers must apply and be accepted for admission to secondary teacher education. **Admission to secondary teacher education is required before a student may enroll in upper-division teacher education courses, and all admission requirements must be completed before admission will be granted.** Admission is based on the Professional Standards and Academic Standards described below. Applications are made through the Teacher Education Advising Office in the Education Building, Room 206.

**Admission Schedules** Application for admission to secondary teacher education is limited to two specific times each year. **Completed applications must be filed within the first eight weeks of the fall or spring semester during which the admission requirements are being completed.** Applications received after those dates will be processed during the following semester.

**Limitations to Admission** Because of the large number of students seeking 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 that 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.) Consideration is also given to unusually strong candidates who do not meet the GPA requirements.

Screening of applicants and implementation of admission policy is the responsibility of the Teacher Education Professional Standards Committee and the Teacher Education Advising Office.

It is the responsibility of the individual student to provide the Teacher Education Advising Office with transcripts and other documentation to show that those requirements have been completed. Requirements for admission to secondary teacher education shall be determined and implemented by the secondary teacher education faculty and administered by the Teacher Education Advising Office.

**Professional Standards** To be admitted to secondary teacher education, and to continue taking teacher education courses, each secondary education student must be reviewed and approved by the Teacher Education Professional Standards Committee, and must maintain that approval throughout the program. Committee approval is based not only on the student's academic record, but also on the judgment of faculty members regarding the student's skills, behavioral characteristics, and disposition necessary for success as a teacher. A further description and discussion of these traits may be found in the *Secondary Education Student Handbook* (http://education.boisestate.edu) and in the *Code of Ethics of the Idaho Teaching Profession* (http://sde.state.id.us). The collection and assessment of this information from faculty members and others is an ongoing activity that begins when the student first enters BSU and continues throughout the student's participation in a teacher education program.

The Professional Standards Committee may exclude from further teacher education course work any student identified as lacking the personal or professional skills, characteristics, or disposition necessary for success as a teacher. A student thus excluded is entitled to due process through normal appeals procedures, as described in the *Boise State University Student Handbook*.

**Professional Documentation** In addition to completing the Admission to Secondary Education form, the applicant must provide evidence of suitability to work in a school setting. This evidence should include:

1. Written evidence of work with young people in an educational setting. Other relevant experiences may be accepted on a case-by-case basis.
2. A written narrative describing the significance of this experience in relation to the student's professional goals.
3. Any documentation required by the school district in which the student may be placed.

Applicants are also encouraged to submit letters of recommendation sent from professionals familiar with their work with young people.

**Academic Standards** The following academic standards are required for admission to secondary education:

1. A minimum cumulative grade point average of 2.5.
2. A minimum grade of C in EDUC 201 Foundations of Education or its equivalent.
3. Successful completion of the Pre-Professional Skills Test (PPST) for writing. It may not be taken more than three times.
4. Successful completion of the Idaho Technology Competency Exam (ITCE). It may not be taken more than three times.
5. **For Those Seeking Endorsement in Special Education:** A passing score on the Pre-Professional Skills Test (PPST) for mathematics. It may not be taken more than three times.
6. Students will be interviewed by faculty members before final approval for admission to Secondary Education.

## Certification Requirements and Endorsements for Secondary Education

Standards for the certification of teachers for the State of Idaho are listed in the *Idaho Department of Education Professional School Personnel Certification Standards, Revised April, 2000*, as prepared by the Idaho Department of Education. The following requirements are based on that document and other policies of the Idaho State Board of Education.

To be recommended to the State Department of Education for a secondary school teaching certificate, students from Boise State University must meet the following requirements:

1. Be of good moral character.
2. Have completed an appropriate baccalaureate degree.
3. Have satisfactorily completed teacher education requirements that include a minimum of 26 semester credit hours in the philosophical, psychological, methodological, and technological foundations of education, including at least 10 credit hours of student teaching.
4. Be recommended by the dean of the College of Education. This recommendation verifies that the candidate has been approved by his or her department of subject matter specialization and by the department of foundations, technology, and secondary education. Such approval is based on evidence of the student's knowledge of the subjects to be taught, of demonstrated teaching techniques, and of ability and aptitude to work with students and adults.

Following are the teacher education courses required by Boise State University:

| | Credits |
|---|---|
| EDUC 201 Foundations of Education | 3 |
| EDUC 202 Educational Technology – Classroom Applications | 3 |
| EDUC 301 Teaching Experience I. | 1 |
| EDUC 302 Learning and Instruction | 4 |
| EDUC 350 Teaching Students with Exceptional Needs at the Secondary Level | 3 |
| EDUC 401 Professional Year - Teaching Experience | 2 |
| EDUC 402 Content Literacy for Secondary Students | 3 |
| Content Methods course | 3 |
| Teaching Experience III/IV | 16 |
| Total | 38 |

# Secondary Student Teaching

**Admission to Student Teaching in Secondary Education** An application for a specific student teaching assignment must be filed with the Office of the Coordinator of Field Experiences by the following dates:

1. February 1 for students desiring to student teach in the fall.
2. September 15 for students desiring to student teach in the spring.

Student teaching is scheduled through the Office of the Coordinator of Field Experiences, Education Building, Room 202, and application forms may be obtained from that office or from the Field Experience website http://education.boisestate.edu/schoolpartners/.

Students must give six weeks notice prior to the beginning date for student teaching if they wish to withdraw their application for student teaching. Students choosing to postpone student teaching must reapply.

General requirements for admission to student teaching in secondary education include the following:

1. Admission to the secondary teacher education program.
2. Recommendation of the faculty advisor or the chair of the student's department.
3. Minimum cumulative grade point average of 2.5. (Students who have already earned a baccalaureate degree must meet the Graduate College admission standards.)
4. Minimum grade point average of 2.5 in the major field, minor field (if applicable), and in all required education courses.
5. Major field, minor field (when appropriate), and required education courses completed.
6. Senior standing.
7. Approval by the Teacher Education Professional Standards Committee.
8. Completion of sufficient credit hours in subject areas assigned for student teaching.
9. Successful completion of at least one microteaching experience in EDUC 302 Learning and Instruction.
10. Prior to student teaching, students may be required to be fingerprinted.

## Special Information on Student Teaching in Secondary Education

1. Students who transfer to Boise State University must meet requirements for admission to teacher education and student teaching and complete at least 6 semester hours in teacher education at the university before being placed in student teaching.
3. Student teachers are expected to do 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.
4. Any student may be dismissed from a program leading to certification if he or she is found guilty of any offense which would be grounds for revocation or denial of an Idaho teaching certificate, including conviction in a court of law of an offense other than a minor traffic violation. Questions regarding this policy should be addressed either to the coordinator of field experiences (Education Building, Room 202) or the dean of the College of Education (Education Building, Room 705).
5. Student teaching can be taken only once.

# Secondary Teacher Certification

To be recommended for certification from Boise State University, students should complete the secondary option degree program within a selected department. Such completion represents a major certification endorsement (at least 30 credit hours) in a teaching field. It is highly recommended that students complete a minor certification endorsement of at least 20 credit hours in another field, as an additional minor certification endorsement enhances the opportunity for employment. Students who do not have an endorsement in a minor area must have at least 45 credit hours in their major.

NOTE: Check with Office of Teacher Education Advising for current Idaho requirements.

The major certification endorsements (secondary option degree programs) are described in the catalog under each department. A listing of the secondary options follows:

- Anthropology-Social Science
- Art
- Biology
- Chemistry
- Communication
- Earth Science
- Economics-Social Science
- English
- History
- History-Social Science
- Mathematics
- Music
- Physical Education
- Physics
- Political Science-Social Science
- Sociology-Social Science
- Theatre Arts

The Boise State University minor certification endorsements are listed below.

NOTE: Check with the Office of Teacher Education Advising for the most current information regarding requirements for minor certification endorsements recognized by the State of Idaho. Minor certification endorsements may also be recognized in areas other than those included in this listing.

# Minor Certification Endorsements

| Anthropology, Social Science Major | |
|---|---|
| **Course Number and Title** | **Credits** |
| ANTH 101 Physical Anthropology | 3 |
| ANTH 102 Cultural Anthropology | 3 |
| ANTH 311 Peoples and Cultures of the World | 3 |
| Upper-division anthropology | 12 |
| Total | 21 |

## Anthropology, Non-Social Science Major

| Course Number and Title | Credits |
|---|---|
| ANTH 101 Physical Anthropology | 3 |
| ANTH 102 Cultural Anthropology | 3 |
| ANTH 103 Introduction to Archaeology | 3 |
| ANTH 311 Peoples and Cultures of the World | 3 |
| Upper-division anthropology | 9 |
| Total | 21 |

## Art

| Course Number and Title | Credits |
|---|---|
| One art history | 3 |
| Two design | 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 | 8 |
| ART 351 Secondary School Art Methods | 8 |
| Total | 28-29 |

## Biology

| Course Number and Title | Credits |
|---|---|
| BIOL 191 General Biology I | 4 |
| BIOL 192 General Biology II | 4 |
| BIOL 205 Microbiology | 4 |
| Course in botany | 4 |
| Course in zoology | 4-5 |
| Total | 20-21 |

## Chemistry

| Course Number and Title | Credits |
|---|---|
| CHEM 111,112, College Chemistry | 9 |
| CHEM 317, 319 Organic Chemistry and Lab | 5 |
| Courses in analytical, physical, inorganic, or biochemistry | 7 |
| Total | 20-22 |

## Classical Languages, Latin

| Course Number and Title | Credits |
|---|---|
| LATIN 211 Elementary Classical Latin Language and Literature | 4 |
| LATIN 212 Advanced Classical Latin Language and Literature | 4 |
| LATIN 323 Early Church Latin Literature | 3 |
| LATIN 324 Medieval Latin Literature | 3 |
| LATIN 491 Advanced Latin Tutorial-Augustan Age | 3 |
| LATIN 492 Advanced Latin Tutorial-Constantinian Era | 3 |
| Total | 20 |

**NOTE:** The State Department of Education requires 20 credit hours (9 in 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 history and culture courses listed below to give themselves a firm grounding in the ancient and medieval civilizations using the Latin language: HIST 320 Ancient Rome, ART 101 Survey Western Art, ENGL 217 Mythology, HIST 323 Early Christianity, HIST 324 Medieval Europe, HIST 481 European Seminar on Augustus and the Golden Age of Rome, HIST 481 European Seminar on Constantine and the Late Roman Empire, HIST 381 European Colloquium on the Age of the Cathedrals, PHIL 305 Ancient Philosophy, and PHIL 307 Medieval Philosophy.

## Communication (Speech)

| Course Number and Title | Credits |
|---|---|
| COMM 114/314 Communication Activities | 2 |
| COMM 112 Reasoned Discourse | 3 |
| COMM 221 Interpersonal Communication | 3 |
| COMM 231 Public Speaking | 3 |
| COMM 401 Methods of Teaching Communication | 3 |
| COMM 493 Internship in Directing Forensics | 1 |
| An **additional 6 credits** chosen from the following:<br>COMM 171 Mass Media and Society<br>COMM 321 Rhetorical Theories<br>COMM 341 Nonverbal Communication<br>COMM 351 Intercultural Communication<br>COMM 356 Communication in the Small Group<br>COMM 390 Conflict Management<br>COMM 412 Persuasion<br>COMM 214/414 Intercollegiate Debate<br>COMM 484 Studies in Rhetoric and Public Presentation | 6 |
| Total | 21 |

## Earth Science

| Course Number and Title | Credits |
|---|---|
| GEOL 101 Physical Geology | 4 |
| GEOL 102 Historical Geology | 4 |
| GEOL 201 Introduction to Oceanography | 3 |
| GEOG 213 Introduction to Meteorology | 3 |
| PHYS 105 Introduction to Descriptive Astronomy | 4 |
| Geology/geophysics courses selected from:<br>GEOL 213 Geology of Idaho and the Pacific Northwest<br>GEOL 221 Mineralogy<br>GEOL 313 Geomorphology<br>GEOL 351 Invertebrate Paleontology<br>GEOPH 300 Physics of the Earth | 3-4 |
| Total | 21 |

## Economics

| 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 |

## English

| 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 |
| ENGL 301 or 381 methods course | 3 |
| LING 305 Introduction to Language Studies | 3 |
| Upper-division literature course | 3 |
| Writing courses numbered 200 or higher | 6 |
| Total | 24 |

Students who wish to student teach in English must gain English department approval through successful completion of the English Teaching Portfolio Review.

## Foreign Language

| Course Number and Title | Credits |
|---|---|
| **French** | |
| FREN 101, 102 Elementary French | 8 |
| FREN 201, 202, 203 Intermediate French | 8 |
| FREN 303 Advanced French Conversation and Composition | 3 |
| French courses selected from:<br>FREN 304 Introduction to French and Francophone Literature<br>FREN 376 French Culture<br>FREN 475 France Today<br>FREN 485 The Francophone World Today | 3 |
| FORLNG 410 Approaches to Foreign Language Education | 3 |
| Total | 25 |
| **German** | |
| GERM 101, 102 Elementary German | 8 |
| GERM 201, 202 Intermediate German | 8 |
| GERM 303 Advanced German Conversation and Composition | 3 |
| German courses selected from:<br>GERM 304 Introduction to German Literature<br>GERM 377 German Culture and Civilization | 3 |
| FORLNG 410 Approaches to Foreign Language Education | 3 |
| Total | 25 |
| **Spanish** | |
| SPAN 101, 102 or SPAN 108 Elementary Spanish | 8 |
| SPAN 201, 202 or SPAN 201, 203 or SPAN 208 Intermediate Spanish | 8 |
| SPAN 303 Advanced Spanish Conversation and Composition | 3 |
| Spanish courses selected from:<br>SPAN 304 Introduction to Hispanic Literature<br>SPAN 376 Spanish Peninsular Civilization and Culture<br>SPAN 377 Latin-American Civilization and Culture<br>SPAN 385 Mexican-American Civilization and Culture | 3 |
| FORLNG 410 Approaches to Foreign Language Education | 3 |
| Total | 25 |

## Geography

| 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 |

## Health Education Minor

| Course Number and Title | Credits |
|---|---|
| HLTHST 207 Nutrition | 3 |
| KINES 112 Fitness Foundations | 1 |
| KINES 140 Personal Health | 3 |
| KINES 141 Standard First Aid and CPR | 1 |
| KINES 142 First Aid Instructors Training Course | 1 |
| KINES 445 Secondary School Health Methods and Administration | 3 |
| ZOOL 107 Concepts of Human Anatomy and Physiology **OR**<br>BIOL 227, 228 Human Anatomy and Physiology | 4-8 |
| Two courses selected from:<br>HLTHST 109 Drugs, Use and Abuse<br>KINES 442 Consumer Health<br>PSYC 213 Psychology of Aging<br>PSYC 261 Human Sexuality | 6 |
| Total | 22 |

## History

| Course Number and Title | Credits |
|---|---|
| HIST 111, 112 U. S. History **OR**<br>HIST 211, 212 Problems in U. S. History | 6 |
| HIST 101, 102 History of Western Civilization **OR**<br>HIST 201, 202 Problems in Western Civilization **OR**<br>HIST 105 Eastern Civilizations | 3 |
| POLS 101 American National Government | 3 |
| Upper-division courses to include 3 credit hours of U. S. History, with the remaining 9 credit hours selected from 2 of the 3 major history areas (U.S., European, and Third World) | 12 |
| Total | 24 |

## Mathematics

| Course Number and Title | Credits |
|---|---|
| One of the following:<br>COMPSCI 115 Introduction to C<br>COMPSCI 117 Introduction to C++<br>COMPSCI 125 Introduction to Computer Science I | 2-5<br><br><br>5 |
| MATH 170, 171 Calculus I and Lab | 5 |
| MATH 175 Calculus II | 4 |
| MATH 187 Discrete and Foundational Mathematics I | 4 |
| MATH 490 Mathematics in Secondary Schools | 3 |
| At least one of the following:<br>MATH 301 Linear Algebra<br>MATH 305 Abstract Algebra I<br>MATH 311 Foundations of Geometry<br>MATH 361 Probability and Statistics I | 3-4 |
| Total | 20 |

## Music, Instrumental Track

| Course Number and Title | Credits |
|---|---|
| MUS 100 Introduction to Music | 3 |
| MUS 119-120 Materials of Music | 6 |
| MUS 121-122 Ear Training | 2 |
| MUS 257 String Instrument Methods and Techniques | 2 |
| MUS 261 Basic Conducting | 1 |
| MUS 266 Woodwind Methods and Techniques | 2 |
| MUS 271 Orientation to Music Education | 1 |
| MUS 366 Instrumental Conducting | 1 |
| MUS 368 Percussion Methods and Techniques | 2 |
| MUS 369 Brass Methods and Techniques | 2 |
| MUS 385 Band and Orchestra Methods and Materials | 2 |
| MUS-APL — Applied Music 1 year | 4 |
| MUS-ENS — Major Performance Ensemble 1 year | 2 |
| Total | 30 |

## Music, Choral Track

| Course Number and Title | Credits |
|---|---|
| MUS 119-120 Materials of Music | 6 |
| MUS 121-122 Ear Training | 2 |
| MUS 256 Vocal Technique | 3 |
| MUS 261 Basic Conducting | 1 |
| MUS 271 Orientation to Music | 1 |
| MUS 365 Choral Conducting | 1 |
| MUS 385 Choral Methods and Materials | 2 |
| MUS-APL — Applied Music (Major Instrument) 1 year | 4 |
| MUS-APL — Applied Music (Voice or Piano) 1 year | 4 |
| MUS-ENS — Performance Ensemble 1 year | 2 |
| Total | 26 |

| Natural Science | |
|---|---|
| **Course Number and Title** | **Credits** |
| BIOL 191-192 General Biology I, II | 8 |
| CHEM 101, 102 Essentials of Chemistry | 8 |
| GEOL 101 Physical Geology<br>GEOL 102 Historical Geology | 4<br>4 |
| PHYS 111, 112 General Physics | 8 |
| Total | 24 |

| Physical Science | |
|---|---|
| **Course Number and Title** | **Credits** |
| CHEM 111, 112 College Chemistry | 9 |
| PHYS 105 Introduction to Descriptive Astronomy<br>PHYS 111, 112 General Physics | 4<br>8 |
| Total | 21 |

| Political Science | |
|---|---|
| **Course Number and Title** | **Credits** |
| HIST 111-112 U. S. History **OR**<br>HIST 211-212 Problems in U. S. History | 6 |
| History course | 3 |
| POLS 101 American National Government<br>POLS 102 State and Local Government<br>POLS 141 Contemporary Political Ideologies<br>POLS 231 International Relations | 3<br>3<br>3<br>3 |
| Upper-division comparative government course | 3 |
| Upper-division political science courses | 6 |
| Total | 30 |

| Psychology | |
|---|---|
| **Course Number and Title** | **Credits** |
| PSYC 101 General Psychology<br>PSYC 295 Statistical Methods<br>PSYC 301 Abnormal Psychology<br>PSYC 351 Personality | 3<br>3<br>3<br>3 |
| Upper-division psychology courses | 9 |
| Total | 21 |

| Sociology | |
|---|---|
| **Course Number and Title** | **Credits** |
| SOC 101 Introduction to Sociology<br>SOC 201 Theories of Society<br>SOC 210 Computer Applications in Social Sciences<br>SOC 311 Social Research<br>SOC 400 Sociological Theory | 3<br>3<br>4<br>3<br>3 |
| Sociology courses | 6 |
| Total | 22 |

| Theatre Arts | |
|---|---|
| **Course Number and Title** | **Credits** |
| COMM 101 Fundamentals of Speech Communication | 3 |
| THEA 117 Technical Theatre<br>THEA 215 Acting I<br>THEA 331 Major Production Participation<br>THEA 341 or 342 World Drama<br>THEA 401 Directing<br>THEA 421 or 422 Theatre History | 4<br>3<br>1<br>3<br>3<br>3 |
| Total | 20 |

# Course Offerings

**See page 53 for a definition of the course-numbering system.**

**EDUC — EDUCATION**

**Lower Division**

**EDUC 201 FOUNDATIONS OF EDUCATION (3-0-3)(Area II).** 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.

**EDUC 202 EDUCATIONAL TECHNOLOGY - CLASSROOM APPLICATIONS (2-2-3).** Before enrolling, basic word processing competency is expected. Essential skills and technology needed for using computers in the teaching/learning process. The Internet as a research, instructional, and learning tool, databases, spreadsheets, presentation software, and word processing to create classroom appropriate instructional/learning models. Students will work in technology-rich classrooms in P-12 settings and be required to receive a "Pass" on the Idaho Technology Competency Exam to receive a passing grade in this course.

**Upper Division**

**EDUC 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. (Pass/Fail). PREREQ: Admission to Secondary Education. COREQ: EDUC 302 and EDUC 350.

**EDUC 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: EDUC 301 and EDUC 350.

**EDUC 350 TEACHING STUDENTS WITH EXCEPTIONAL NEEDS AT THE SECONDARY LEVEL (3-0-3)(F,S).** Characteristics of students from common areas of exceptionality, relevant litigation and legislation, assessment techniques, instructional strategies, and collaboration. PREREQ: Admission to Secondary Education. COREQ: EDUC 301 and EDUC 302.

**EDUC 401 PROFESSIONAL YEAR - TEACHING EXPERIENCE II (0-6-2)(F,S).** Students will work with a master teacher for a minimum of 100 hours in a P-12 setting. They will observe the teaching/learning process in action and demonstrate teaching competence in a P-12 classroom setting. PREREQ: Admission into Secondary Education. COREQ: EDUC 402 and the content methods course for the students declared major.

**EDUC 402 CONTENT LITERACY FOR SECONDARY STUDENTS (3-0-3)(F,S).** Instructional materials in the various content subjects and developing instructional skills to meet the reading, writing, and studying needs of all learners in today's diverse society. PREREQ: Admission to Secondary Education and EDUC 350. COREQ: EDUC 401 and the content methods course for the students declared major.

**EDUC 403 SECONDARY FOREIGN LANGUAGE METHODS (3-0-3)(F/S).** Students participate in discussions of problems of learning a foreign language. Current approaches to language teaching. This knowledge is applied to practical activities, cultural presentations, teaching aids, and resource material. PREREQ: Admission to Secondary Education, 6 upper-division credits in one foreign language or PERM/INST, EDUC 350 or EDUC 560. COREQ: EDUC 401 and EDUC 402; or EDUC 544 and EDUC 561.

**EDUC 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 EDUC 350. COREQ: EDUC 401 and EDUC 402.

**EDUC 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 EDUC 350. COREQ: EDUC 401 and EDUC 402.

**EDUC 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, Music, and Physical Education major only. Attendance at seminars is required. (Pass/Fail). PREREQ: Admission to Professional Year. COREQ: EDUC 482 or EDUC 483.

**EDUC 482 PROFESSIONAL YEAR - JUNIOR HIGH TEACHING EXPERIENCE IV DUAL OPTION (0-25-8)(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, Music, and Physical Education majors only. Attendance at seminars is required. (Pass/Fail). PREREQ: Admission to Professional Year. COREQ: EDUC 481 or EDUC 483.

**EDUC 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, Music, and Physical Education majors only. Attendance at seminars is required. (Pass/Fail). PREREQ: Admission to Professional Year. COREQ: EDUC 481 or EDUC 482.

**EDUC 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.

**EDUC 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.

**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.

**TEACH-ED — TEACHER EDUCATION**

**Lower Division**

**TEACH-ED 216 GRAMMAR AND LANGUAGE USAGE FOR TEACHERS (3-0-3)(S).** This course will provide instruction in the content of language arts curriculum generally taught in grades 4-8. Students will study the developmental sequence of grammar, punctuation, spelling, and language study appropriate to each grade level. The course will also include an introduction to writing instruction.

**TEACH-ED 261 FOUNDATIONS OF EARLY CHILDHOOD EDUCATION (3-0-3)(F).** This course explores the historical and current principles and practices of early childhood education. The student will study program models, curriculum designs, ethics, public policy, and the teaching-learning process of the young child. Emphasis will be on the young child of age 3-8. COREQ: TEACH-ED 293 Internship in ECE.

**Upper Division**

**TEACH-ED 356 VIDEO TECHNOLOGY – CLASSROOM APPLICATIONS (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.

**TEACH-ED 361 CHILD BEHAVIOR AND GUIDANCE/MANAGEMENT IN ECE (3-0-3)(F).** This course explores child development and behavior in the early childhood classroom, Preschool – Kindergarten – Primary. Theoretical models of classroom guidance/management are examined with emphasis on appropriate guidance techniques that promote conflict resolution and the development of personal self-control. PREREQ: Admission to teacher education (admission to teacher education is waived for nonelementary education majors), PSYC 101, and TEACH-ED 291 or PERM/INST. COREQ: TEACH-ED 493 Internship in ECE.

**TEACH-ED 362 CURRICULUM AND PROGRAM PLANNING IN ECE (3-0-3)(S).** This course explores the content organization of the early childhood classroom. The student will learn how to select objectives, organize content through an integrated approach, select appropriate learning activities, and assess both children's growth and program effectiveness. Emphasis will be on the young child age 3-8. PREREQ: Admission to teacher education (admission to teacher education is waived for nonelementary education majors).

**TEACH-ED 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.

**TEACH-ED 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: TEACH-ED 393.

**TEACH-ED 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.

**TEACH-ED 408-408G INTEGRATING TECHNOLOGY INTO CLASSROOM CURRICULA (3-0-3)(F/S).** Students will develop classroom strategies for integrating computers and their peripherals, instructional software, and tool software (word processor, database, spreadsheet, hypermedia) into integrated lessons. Methods, strategies, concepts, and skills will be the focus of the class both in a lab and authentic educational settings. PREREQ: TEACH-ED 208, teaching experience, or PERM/INST.

**TEACH-ED 422 CURRICULUM FOR THE MODERATELY/SEVERELY HANDICAPPED (3-0-3)(F).** This course is designed to acquaint students with a systematic approach to conduct assessment and curriculum planning for the moderately/severely handicapped student. Such areas as severe mental retardation, multiple handicaps, and severe emotional disturbances will be studied in this course. PREREQ: TEACH-ED 291, 330, and admission to teacher education.

**TEACH-ED 423-423G TEACHING STUDENTS WITH MODERATE AND SEVERE DISABILITIES (3-0-3)(S).** This course is an overview of program development and instructional techniques appropriate for students who have moderate to severe disabilities. Major emphasis is on the development of functional programming within integrated educational settings. PREREQ: Admission to teacher education.

**TEACH-ED 446 METHODS AND CURRICULUM IN EARLY CHILDHOOD SPECIAL EDUCATION (3-0-3)(F).** Program development in early childhood special education, including intervention approaches, curriculum determination, service delivery options, intervention strategies, and instructional materials selection and adaptation. PREREQ: Admission to teacher education, TEACH-ED 291, or PERM/INST.

**TEACH-ED 457 CLASSROOM MANAGEMENT SKILLS (3-0-3)(F/S).** This course is designed to help prospective teachers develop an approach to classroom management. The course will focus on ecological factors that contribute to a positive classroom atmosphere, including the teacher, the student, the school, and parents. The course will emphasize principles that strengthen desirable behavior and reduce inappropriate behavior for individuals and for groups of students. PREREQ: PSYC 211, TEACH-ED 225, and admission to teacher education. (NOTE: Bilingual Education/ESL majors are exempt from TEACH-ED 225).

**TEACH-ED 463-463G INFANT EDUCATION (3-0-3)(S).** The physical, social, emotional, and intellectual development of the infant age birth to three will be examined in relation to the kinds of environment and learning experiences that will stimulate and ensure optimum development. PREREQ: Admission to teacher education (admission to teacher education is waived for nonelementary education majors).

# Department of Theatre Arts

Morrison Center, Room C-100 Telephone 208 426-3957
http://www.boisestate.edu:80/theatre/clauterb

*Chair and Associate Professor:* Richard Klautsch. *Professor:* Lauterbach. *Associate Professors:* Atlakson, Buss, Baltzell, Hansen, Hoste. *Assistant Professor:* Reinhart. Special *Lecturer:* Fee.

## Degrees Offered

- B.A. and Minor in Theatre Arts
- B.A. in Theatre Arts, Secondary Education

## 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, Dance, Design, Directing, Dramatic Writing, Performance Options Bachelor of Arts

| Course Number and Title | Credits |
|---|---|
| ENGL 101, 102 English Composition | 6 |
| **Area I — see page 40 for list of approved courses** | |
| *ART 100 Introduction to Art **OR** | 3 |
| MUS 100 Introduction to Music | |
| Area I core course in literature | 3 |
| Area I core course in a third field | 3 |
| Area I core course in any field | 3 |
| *Dance Option majors must take MUS 100 or MUS 101 | |
| **Area II — see page 40 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 40 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 221, 222 Theatre History | 6 |
| THEA 231 Major Production Participation | 1 |
| THEA 331 Advanced Major Production Participation | 1 |
| THEA 341 Western World Drama 500 BC-1642 | 3 |
| THEA 342 Western World Drama Since 1642 | 3 |
| THEA 401 Directing | 3 |
| THEA 445 Contemporary Theatre | 3 |
| *Required each semester of every theatre arts major. | |
| Dramatic literature course | 3 |

— continued —

### Theatre Arts, Dance, Design, Directing, Dramatic Writing, Performance Options (continued)

| | |
|---|---|
| **Dance Option** | |
| THEA 210 Repertory Dance | 2 |
| THEA 212/412 Movement and Dance for the Performing Arts | 3 |
| THEA 410 Repertory Dance | 1 |
| Ballet Technique chosen from THEA 112, THEA 213, THEA 314 | 4 |
| Dance electives chosen from THEA 123, THEA 125, THEA 205, THEA 223, 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 | 3 |
| THEA 352 Costume Design | 3 |
| THEA 362 Stage Lighting Design | 3 |
| Upper-division electives to total 40 credits | 15 |
| Electives to total 128 credits | 24-26 |
| **Directing Option** | |
| THEA 216 Acting II | 3 |
| THEA 233 Stage Voice | 2 |
| THEA 351 Elements of Scene Design | 3 |
| THEA 402 Directing | 3 |
| Upper-division electives to total 40 credits | 18 |
| Electives to total 128 credits | 19-21 |
| **Dramatic Writing Option** | |
| THEA 340 Playwriting | 3 |
| THEA 350 Screenwriting | 3 |
| THEA 340 Playwriting **OR** THEA 350 Screenwriting | 3 |
| Upper-division electives to total 40 credits | 15 |
| Electives to total 128 credits | 24-26 |
| **Performance Option** | |
| THEA 216 Acting II | 3 |
| THEA 233 Stage Voice | 2 |
| THEA 234 Stage Voice | 2 |
| THEA 311 Advanced Acting | 3 |
| Upper-division electives to total 40 credits | 21 |
| Electives to total 128 credits | 17-19 |
| 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 Bachelor of Arts

| Course Number and Title | Credits |
|---|---|
| ENGL 101, 102 English Composition | 6 |
| **Area I — see page 40 for list of approved courses** | |
| ART 100 Intro to Art **OR** | 3 |
| MUS 100 Intro to Music | |
| Area I core course in literature | 3 |
| Area I core course in a third field | 3 |
| Area I core course in any field | 3 |
| **Area II — see page 40 for list of approved courses** | |
| EDUC 201 Foundations of Education | 3 |
| HIST 101 History of Western Civilization | 3 |
| HIST 102 History of Western Civilization | 3 |
| Area II core course in a third field | 3 |
| **Area III — see page 40 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 |

— continued —

| *Theatre Arts, Secondary Education (continued)* | |
|---|---|
| EDUC 202 Educational Technology – Classroom Applications | 3 |
| EDUC 301 Teaching: Experience I | 1 |
| EDUC 302 Learning and Instruction | 4 |
| EDUC 350 Teaching Students with Exceptional Needs at the Secondary Level | 3 |
| EDUC 401 Professional Year - Teaching Experience II | 2 |
| EDUC 402 Content Literacy for Secondary Students | 3 |
| EDUC 405 Teaching Secondary Social Studies | 3 |
| Teaching Experience III/IV | 16 |
| NOTE: Completion of all requirements for graduation with a secondary education option may require more than 128 credit hours. See "Teacher Education" for more information. | |
| ENGL 345 or 346 Shakespeare | 3 |
| *THEA 10 Theatre Symposium | 0 |
| THEA 105 Play Analysis | 3 |
| THEA 117, 118 Technical Theatre | 8 |
| THEA 212 or 412 Movement and Dance for Performance Art | 3 |
| THEA 215, 216 Acting I, II | 6 |
| THEA 221 or 222 Theatre History | 3 |
| THEA 231 Major Production Participation | 1 |
| THEA 233 Stage Voice | 2 |
| THEA 318 Methods of Teaching Secondary School Theatre | 2 |
| THEA 331 Advanced Major Production Participation | 1 |
| THEA 341 Western World Drama 500 BC-1642 | 3 |
| THEA 351 Elements of Scenic Design | 3 |
| THEA 401, 402 Directing | 6 |
| THEA 440 Theatre Management | 3 |
| *Required each semester of every theatre arts major. | |
| Theatre art course chosen from THEA 162, THEA 352, or THEA 362 | 3 |
| Electives to total 128 credits | 0-2 |
| Total | 128 |

## Theatre Arts Minor

| Course Number and Title | Credits |
|---|---|
| THEA 117 Technical Theatre | 4 |
| THEA 215 Acting I | 3 |
| THEA 118 Technical Theatre **OR** THEA 216 Acting II | 3-4 |
| THEA 231, 331 Major Production Participation | 3-4 |
| THEA 341 Western World Drama 500 BC-1642 **OR** THEA 342 Western World Drama Since 1642 | 3 |
| THEA 401 Directing | 3 |
| Total | 20 |

## Theatre Arts Minor Certification Endorsement

| Course Number and Title | Credits |
|---|---|
| COMM 101 Fundamentals of Speech Communication | 3 |
| THEA 117 Technical Theatre | 4 |
| THEA 215 Acting I | 3 |
| THEA 221 or 222 Theatre History | 3 |
| THEA 331 Major Production Participation | 1 |
| THEA 341 Western World Drama 500 BC-1642 **OR** THEA 342 Western World Drama Since 1642 | 3 |
| THEA 401 Directing | 3 |
| Total | 20 |

# Course Offerings

**See page 53 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)(Formerly THEA 107).** 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, to improving strength, flexibility, and correct body alignment. May be repeated for a maximum of four credits. PREREQ: THEA 102 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 (0-23-1)(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)(S).** Emphasis is on body strengthening necessary to accomplish male-oriented ballet technique. Focuses on the 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 (0-3-1)(F/S).** A beginning choreography class for the creatively inclined dance student. The class is 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. The student will be required to choreograph a dance piece during the semester. May be repeated once on each level for credit.

**THEA 212, 412 MOVEMENT AND DANCE FOR THE PERFORMING ARTIST (3-0-3).** This course is 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: 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)(Offered 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 221-222 THEATRE HISTORY (3-0-3)(F/S)(Formerly THEA 421-422, 421G-422G).** Investigation of the periods of major importance in the development of theatre. The first semester will include the period from 800 BC through Elizabethan; the second semester, from the Elizabethan period through mid-20th century. PREREQ: ENGL 102.

**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 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 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)(Offered odd-years).** Backstage operation, organization and management of theatrical productions. Emphasis on methods of communication and practical application of management techniques.

**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. Admission to class by permission of instructor. 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. PREREQ: THEA 314 or PERM/INST. May be repeated for credit.

**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 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 341 WESTERN WORLD DRAMA 500 BC-1642 (3-0-3)(F).** Study of outstanding selections of dramatic literature. The plays are studied from a theatrical point of view, i.e., they are approached as scripts intended for production as well as examples of literary form.

**THEA 342 WESTERN WORLD DRAMA SINCE 1642 (3-0-3)(S).** Study of outstanding selections of dramatic literature. The plays are studied from a theatrical point of view, i.e., they are approached as scripts intended for production as well as examples of literary form.

**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 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 401 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 221, THEA 222 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 445 CONTEMPORARY THEATRE (3-0-3)(S)(Alternate years).** A study of world theatre and drama since 1960 with an emphasis on current research materials and techniques.

**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 Health Studies

# Interdisciplinary Minor in Women's Studies

Library, Room 171B Telephone 208 426-3409
*Information:* Patricia Dorman

## Program Statement

Students may earn an interdisciplinary, upper-division minor in women's studies. To do so, they must complete 9 credits hours of specified core courses in women's studies. In addition, students must complete 12 credit hours of approved elective courses in women's studies, offered by various departments and listed each semester in the *BSU Directory of Classes*. Multicultural and interdisciplinary in perspective, the course work in women's studies seeks to recognize the diversity of human experience. Students examine the experience of women and concepts of gender within different ethnic and economic contexts through the study of scholarship and creative works drawn from various fields. Thus, the course work seeks to provide students with essential preparation for lives and careers deeply affected by changing gender concepts.

**Minor in Women's Studies**

| Course Number and Title | Credits |
|---|---|
| WOMSTD 300 Introduction to Women's Studies | 3 |
| WOMSTD 301/SOC 471 Feminist Sociological Theory | 3 |
| WOMSTD 302 Feminist Research Methods and Perspectives | 3 |
| *Approved elective courses<br>COMM 485 Studies in the Inter-relationship Between Gender and Communication, ENGL 412/412G Women Writers, HIST 340 Women in American from the Colonial Era to the Present, SOC 371 Social Psychology of Gender, SOC 481 Sociology of Gender and Aging | 12 |
| Total | 21 |

*The student will select these elective credits from a list approved by the committee. These approved elective courses will be offered by various departments within the university and will be cross-listed as women's studies courses. No more than 6 hours total of independent study, internship, practica, or workshop may apply toward the women's studies minor.

## Course Offerings

**See page 53 for a definition of the course-numbering system.**

**WOMSTD — WOMEN'S STUDIES**

**WOMSTD 300 INTRODUCTION TO WOMEN'S STUDIES (3-0-3)(F/S).** An interdisciplinary, multicultural introduction to Women's Studies that provides the foundation for further study. The course draws selectively from the scholarship and creative work of various fields to examine how concepts of gender shape lives, personal relationships, and social institutions. In recognition of the diversity of women's experiences and of gender issues, course materials will be studied from a multicultural perspective across lines of class, race, and ethnicity.

**WOMSTD 301 (SOC 471) FEMINIST SOCIOLOGICAL THEORY (3-0-3)(F/S).** An examination of the major types of feminist theory in sociology, or theory directly useful to sociologists in search of understanding and explaining gender relations. The student will encounter new perspectives in sociology that arise from the exchange of new ideas, new data, exciting possibilities for social change and the emergence of new theoretical models to understand gender relations. PREREQ: Upper-division standing. This course may be taken for WOMSTD or SOC credit but not both.

**WOMSTD 302 FEMINIST RESEARCH METHODS AND PERSPECTIVES (3-0-3) (F/S).** This course will examine the practical problems of researching and writing about women, with an emphasis on acquainting students with use of the major bibliographic sources and services in women's studies. Goals of the class will be: (a) to develop an understanding of the differences between research about and for women, and the ways in which both models and methodology can be gendered; (b) to develop criteria for feminist analysis and critique of data and documents; (c) to provide students with skills which will enable them to bridge the gap between subjective experience and scholarly endeavors. Special attention will be paid to the particular problems of feminist research: when secondary sources become primary sources; the characteristics and history of the feminist press; the relationship between popular and scholarly writing; and the possibilities presented by electronic access systems.

**WOMSTD 371 (SOC 371) THE SOCIAL PSYCHOLOGY OF GENDER (3-0-3)(S).** Gender Studies in the United States and other countries. Social Psychological research and theory to explore the processes by which societies apply gender definitions, social change, institutional policies, and relationships between women and men. May be taken for Sociology or Women's Studies credit, but not both. PREREQ: PSYC 101 or SOC 101 and upper-division status.

## Zoology — see Department of Biology

# Applied Technology Programs

**Program offerings are dependent upon sufficient student interest and availability of instructors.**

## A+ Computer Support Technician (15-week Program)

The A+ Computer Support Technician program is designed to give the student basic knowledge and skills necessary to gain entry-level employment in technical information support. Participants will learn how to build a microcomputer system, how to troubleshoot problems in a system, how to use several software programs, as well as customer service essentials and the work ethics necessary to become a successful computer support technician.

Students choosing to continue their education may transfer the A+ Computer Support Technician credits into the Computer Network Support Technology A.A.S. degree program. Special Fees apply.

**A+ Computer Support Technician Postsecondary Technical Certificate**

| Course Number and Title | Credits |
|---|---|
| A+SUPTEC 101 Performance Plus+ – Ethics at Work/Customer Service | 1 |
| A+SUPTEC 105 Keyboarding | 1 |
| A+SUPTEC 111 Software Support | 5 |
| A+SUPTEC 115 A+ Certification Training | 4 |
| TECSUP 111 Applied Communications | 3 |
| TECSUP 131 Technical Math I | 1 |
| TECSUP 133 Technical Math II | 1 |
| TECSUP 136 Technical Math IV | 1 |
| Total | 17 |

## Course Offerings

**See page 53 for a definition of the course-numbering system.**

**A+SUPTEC — A+ COMPUTER SUPPORT TECHNICIAN**

**A+SUPTEC 101 PERFORMANCE PLUS+ – ETHICS AT WORK/CUSTOMER SERVICE (5-0-1).** Introduction to what employers want and expect from employees and how to deliver those to ensure success. Students are instructed on how to convey enthusiasm and friendliness, use effective conversational skills, handle telephone calls and requests, and use problem-solving strategies. Also, techniques are introduced to diffuse hostile clients and manage difficult customers. (4 weeks.)

**A+SUPTEC 105 KEYBOARDING (0-5-1).** Learn to operate the letter, number and symbol keys on the computer by touch. Use punctuation marks correctly and format documents by setting margins, tabs, and line spacing. Keyboard straight copy at a minimum speed of 25 net words per minute for two minutes (minus one word for each error). (6 weeks.)

**A+SUPTEC 111 SOFTWARE SUPPORT (4-2-5).** Learn to use current software products. Students will create, edit, format, and print documents, spreadsheets, and database tools as well as use presentation software and create slides. (13 weeks.)

**A+SUPTEC 115 A+ CERTIFICATION TRAINING (3-3-4).** Students learn to identify, install, and upgrade hardware components, build a system, and trouble-shoot problems. PC platforms are introduced and students learn to us DOS commands and maneuver in Windows and Windows 95. Students prepare to take the A+ Certification exam upon exit from the program. (10 weeks.)

## Apprenticeship Program

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 BSU 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, Outreach Division, Technical Services Building, Room 105, telephone 208 426-1974.

**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 | 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<br>Please refer to the A.A.S. requirements in Chapter 11 for explanation. | 3-4 |
| Total | 72 |

The associate of applied science (A.A.S.) degree articulates with BSU's bachelor of applied science (B.A.S.) degree.

## Course Offerings

**See page 53 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 (9-Month or 2-Year Program)

*Instructor:* Parke, Paul

The Auto Body Program provides students with the basic skills necessary for employment in the auto body trade and closely related crafts. Training includes auto body theory; welding (plastics, braze, mild steel, wire feed); painting (lacquer, acrylic enamel, urethane, blending, matching); metal working (repair, replace, shrinking); frame alignment and repair; and repair of new cars (UniCoupe Repair and UniCoupe Bench Systems).

**Auto Body Technical Certificate**

| Course Number and Title | Credits |
|---|---|
| AUTOBD 101 Auto Body Laboratory | 7 |
| AUTOBD 102 Auto Body Laboratory | 7 |
| AUTOBD 151 Auto Body Theory | 2 |
| AUTOBD 161 Auto Body Theory | 2 |
| AUTOBD 162 Auto Body Theory | 3 |
| AUTOBD 171 Auto Body Theory | 2 |
| AUTOBD 172 Auto Body Theory | 2 |
| AUTOBD 191 Auto Body Theory | 2 |
| AUTOBD 192 Auto Body Theory | 2 |
| TECSUP 130 Mechanical Math | 1 |
| TECSUP 181 Occupational Relations | 3 |
| Total | 33 |

| Auto Body Advanced Technical Certificate | |
|---|---|
| **Course Number and Title** | **Credits** |
| Successful completion of Technical Certificate | 33 |
| AUTOBD 201 Auto Body Laboratory<br>AUTOBD 202 Auto Body Laboratory<br>AUTOBD 251 Auto Body Theory<br>AUTOBD 261 Auto Body Theory | 7<br>7<br>3<br>3 |
| AUTOTEC 200 Two and Four Wheel Alignment<br>AUTOTEC 240 Auto Electrical Systems<br>AUTOTEC 255 Automotive Heating & Air Conditioning | 2<br>4<br>2 |
| Total | 61 |

| Auto Body Associate of Applied Science | |
|---|---|
| **Course Number and Title** | **Credits** |
| Successful completion of AUTOBD 101, 102, 151, 161, 162 171, 172, 191, 192, 201, 202, 251, 261 and AUTOTEC 200, 240, and 255 | 57 |
| ENGL 101 **and** ENGL 102 **or** COMM 101<br>Area I or II core course in any field<br>Area III core course in mathematics<br>Area I, II, or III core course in any field<br>Please refer to the A.A.S. requirements in Chapter 11 for explanation. | 6<br>3<br>3-5<br>3-4 |
| Total | 73 |
| The associate of applied science (A.A.S.) degree articulates with BSU's bachelor of applied science (B.A.S.) degree. | |

# Course Offerings

**See page 53 for a definition of the course-numbering system.**

**AUTOBD — AUTO BODY**

**AUTOBD 101 AUTO BODY LABORATORY (1-14-7)(F/S).** Basic auto body skills, orientation of shop and equipment, welding of thin-gauge sheet metal, wire feed oxyacetylene, basic metal roughing and finishing skills, metal grinding, applications of plastic bond repairs, basic priming, sanding skills, and painting techniques (lacquers, enamels, etc.).

**AUTOBD 102 AUTO BODY LABORATORY (1-14-7)(F/S).** Skills in advanced collision damage (panel replacement, bench collision repair, and unitized collision repair), or experience in advanced painting skills (base/coat, blending, epoxy primers, paint complete, and painted and tape stripes) and lacquer, enamels, and urethane painting.

**AUTOBD 103 AUTO BODY LABORATORY (1-15-8)(SU).** Student to continue practicing basic skills or advanced skills in preparing for the work force (early out, on-the-job training).

**AUTOBD 151 AUTO BODY THEORY (2-1-2)(F/S).** Orientation of tools, safety, shop procedures, and industry needs and standards.

**AUTOBD 152 AUTO BODY THEORY (3-1-3)(F/S).** Advanced polishing of paints, paint skills in base/coat-clear/coat, blending, paint matching techniques, sealers, and special coatings.

**AUTOBD 161 AUTO BODY THEORY (2-1-2)(F/S).** Mild steel, brazing, wire feed welding on car sheet metals, basic oxyacetylene, MIG welding, plasma air arc cutting, equipment, tools and safety.

**AUTOBD 162 AUTO BODY THEORY (3-1-3)(F/S).** Advanced theory skills in minor collision damage, major bench repair techniques, panel replacement, and rubber panel repair.

**AUTOBD 171 AUTO BODY THEORY (2-1-2)(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.

**AUTOBD 172 AUTO BODY THEORY (1-2-2)(S).** Primers, paint prep, basic sanding, and preparing of painted surfaces.

**AUTOBD 181 AUTO BODY THEORY (2-1-2)(F/S).** Car and light truck body alignments, glass removal, door, hood, and trunk alignments, estimating paint damage, and estimating collision damage.

**AUTOBD 182 INTRO TO MICROCOMPUTERS (1-1-1)(F/S).** Microcomputer skills related to the mechanical technology field. Students are introduced to disk operating systems (DOS) and word processing to prepare their resumes and reports.

**AUTOBD 191 AUTO BODY THEORY (2-1-2)(F/S).** Basic theory in car polishing, paint surface cleaning, interior and exterior detailing, and shop management.

**AUTOBD 192 AUTO BODY THEORY (1-2-2)(S).** Measuring, analysis, and estimating. Basic measuring systems, estimating collision damaged, and painting surfaces.

**AUTOBD 201 AUTO BODY LABORATORY (0-14-7)(F).** Hands on skill in refinishing, collision repair, and mechanical skills.

**AUTOBD 202 AUTO BODY LABORATORY (0-14-7)(S).** Collision repair, or painting in school lab, or a monitored industry experience.

**AUTOBD 251 AUTO BODY THEORY (3-1-3)(F).** Collision damage repair. Advanced knowledge of panel replacement, unibody collision repair, bench repair systems, frame alignment, and measuring analysis.

**AUTOBD 261 AUTO BODY THEORY (3-1-3)(F).** Painting, advanced knowledge of painting, color matching, blending, color sanding, and polishing. Custom painting, graphics, stripes, flames, shading.

# Automated Industrial Technician (20-Month Program)

This double-major option combines the industrial mechanics/automation and welding/metal fabrication curriculums.

| Automated Industrial Technician Advanced Technical Certificate | |
|---|---|
| **Course Number and Title** | **Credits** |
| IMTEC 101 Maintenance Welding Technology<br>IMTEC 102 Maintenance Machine Fundamentals<br>IMTEC 114 Electromechanical Systems<br>IMTEC 115 Electromechanical Systems<br>IMTEC 124 Basic Fluid Power Applications– Hydraulics<br>IMTEC 125 Basic Fluid Power Applications– Pneumatics<br>IMTEC 134 Industrial Technology Laboratory<br>IMTEC 135 Industrial Technology Laboratory | 3<br>3<br>3<br>3<br>3<br>3<br>5<br>6 |
| TECSUP 111 Applied Communications<br>TECSUP 130 Mechanical Math<br>TECSUP 181 Occupational Relations | 3<br>1<br>3 |
| WELD 106 Welding Laboratory<br>WELD 107 Welding Laboratory<br>WELD 108 Welding Lecture/Laboratory<br>WELD 125 Blueprint Reading and Layout<br>WELD 126 Blueprint Reading and Layout<br>WELD 155 Welding Theory<br>WELD 156 Welding Theory<br>WELD 157 Introduction to Microcomputers | 8<br>8<br>7<br>3<br>7<br>4<br>1<br>1 |
| Total | 75 |
| See "Industrial Maintenance Technology", "Technical Support", and "Welding and Metals Fabrication" for detailed course descriptions. | |

| Automated Industrial Technician Associate of Applied Science | |
|---|---|
| **Course Number and Title** | **Credits** |
| Successful completion of technical courses | 68 |
| ENGL 101 **and** ENGL 102 **or** COMM 101<br>Area I or II core course in any field<br>Area III core course in mathematics<br>Area I, II, or III core course in any field<br>Please refer to the A.A.S. requirements in Chapter 11 for explanation. | 6<br>3<br>3-5<br>3-4 |
| Total | 84 |
| See "Industrial Maintenance Technology", "Technical Support", and "Welding and Metals Fabrication" for detailed course descriptions.<br>The associate of applied science (A.A.S.) degree articulates with BSU's bachelor of applied science (B.A.S.) degree. | |

# Automotive Technology (9-Month or 2-Year Program)

*Instructors:* Doughty, Gaines, Hall, Martinez.

Boise State University's Automotive Technology Program covers diagnosis, service, and repair of automobiles and light trucks. Prerequisite: core block mechanics program or the equivalent.

The Automotive Technology Program is a two-part program. The first-year program covers general principles and specific product information. Laboratory 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 specific technical training, supporting courses enable students to develop interpersonal and other skills needed to advance within the automotive service industry. Students wanting only to complete the first-year program can receive a technical certificate.

In addition to advanced technical theory in the classroom, the second-year program offers laboratory work in a practicum agreement with local dealerships, independent garages, and specialty shops. as well as advanced technical theory in the classroom.

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).

### Automotive Technology Technical Certificate

| Course Number and Title | Credits |
|---|---|
| AUTOTEC 200 Two and Four Wheel Alignment | 2 |
| AUTOTEC 205 Automatic Transmission/Transaxle | 3 |
| AUTOTEC 210 Engine Performance | 3 |
| AUTOTEC 220 Automotive Brake System | 3 |
| AUTOTEC 240 Auto Electrical Systems | 4 |
| AUTOTEC 245 Engine Repair | 4 |
| AUTOTEC 250 Manual Transmission and Differential Repair | 3 |
| CORBLK 101 Introduction to Mechanics | 1 |
| CORBLK 105 Introduction to Engines | 1 |
| CORBLK 109 Basic Electricity and Electronics | 1 |
| CORBLK 113 Chassis and Exhaust Systems | 1 |
| CORBLK 117 Vehicle and Equipment Maintenance | 1 |
| CORBLK 121 Basic Welding and Metal Work | 1 |
| CORBLK 129 Introduction to Microcomputers | 1 |
| TECSUP 111 Applied Communications | 3 |
| TECSUP 130 Mechanical Math | 1 |
| TECSUP 181 Occupational Relations | 3 |
| Total | 36 |

See "Core Block Courses" and "Technical Support Courses" for course descriptions.

### Automotive Technology Advanced Technical Certificate

| Course Number and Title | Credits |
|---|---|
| Successful completion of technical certificate | 36 |
| AUTOTEC 215 Suspension and Steering Controls | 2 |
| AUTOTEC 230 Engine Performance Diagnostics | 2 |
| AUTOTEC 255 Automotive Heating and Air Conditioning | 2 |
| AUTOTEC 256 Advanced Engine Repair | 4 |
| AUTOTEC 257 Advanced Engine Performance | 4 |
| AUTOTEC 258 Advanced Automatic Transmission and Transaxles | 4 |
| AUTOTEC 259 Advanced Alignment Systems | 4 |
| AUTOTEC 260 Advanced Auto Electrical Systems | 4 |
| Total | 62 |

### Automotive Technology Associate of Applied Science

| Course Number and Title | Credits |
|---|---|
| Successful completion of technical courses | 55 |
| ENGL 101 **and** ENGL 102 **or** COMM 101 | 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<br>Please refer to the A.A.S. requirements in Chapter 11 for explanation. | 3-4 |
| Total | 71 |

The associate of applied science (A.A.S.) degree articulates with BSU's bachelor of applied science (B.A.S.) degree.

## Course Offerings

**See page 53 for a definition of the course-numbering system.**

**AUTOTEC — AUTOMOTIVE TECHNOLOGY**

**AUTOTEC 200 TWO AND FOUR WHEEL ALIGNMENT (1-3-2)(F/S).** Theory and practice of two and four wheel alignment, wear identification, and front-end rebuilding. PREREQ: Core block.

**AUTOTEC 205 AUTOMATIC TRANSMISSION/TRANSAXLE (1-5-3)(F/S).** Fundamentals of automatic transmissions and transaxle design features, including the function, servicing, diagnosis, troubleshooting, and proper removal, adjustment, installation and testing procedures. PREREQ: Core block.

**AUTOTEC 210 ENGINE PERFORMANCE (1-5-3)(F/S).** Design and repair of conventional and electronic ignition systems, fuel delivery systems, carburetor, fuel injection, computer-controlled ignition, and fuel systems. The use of scopes and testing equipment will be emphasized. PREREQ: Core block.

**AUTOTEC 215 SUSPENSION AND STEERING CONTROLS (1-3-2)(F/S).** Theory and operation of suspension and steering systems, including linkage, rack and pinion, and power steering, leaf and coil springs, struts and control arms. PREREQ: Core block.

**AUTOTEC 220 AUTOMOTIVE BRAKE SYSTEMS (1-5-3)(F/S).** Theory and practice of automotive brake systems inspection, maintenance, and repair will be covered, including shoe and pad replacement, drum and rotor machining, and rebuilding of wheel, caliper and master cylinder, and power brake units. PREREQ: Core block.

**AUTOTEC 230 ENGINE PERFORMANCE DIAGNOSTICS (1-3-2)(F/S).** Advanced diagnostic equipment to troubleshoot and repair automobile performance, with emphasis placed on electrically related problems. PREREQ: Core block.

**AUTOTEC 240 AUTOMOTIVE ELECTRICAL SYSTEMS (1-6-4)(F/S).** Identification and use of basic automotive electronic test equipment, basic automotive electronic theory, testing, and troubleshooting, and rebuilding of starter motors, charging systems, and electronic ignition systems. The theory and testing of computer command control systems will also be covered. PREREQ: Core block.

**AUTOTEC 245 ENGINE REPAIR (1-6-4)(F/S).** Engine design, engine disassembly, parts evaluation, parts repair and replacement and proper disassembly techniques, parts evaluation, and proper assembly. PREREQ: Core block.

**AUTOTEC 250 MANUAL TRANSMISSION AND DIFFERENTIAL REPAIR (1-5-3)(F/S).** Transmission and differential design, proper disassembly techniques, parts evaluation, and proper assembly. PREREQ: Core block.

**AUTOTEC 255 AUTOMOTIVE HEATING AND AIR CONDITIONING (1-3-2)(F/S).** Principles and design of the heating and air conditioning system used in today's automobiles, and teaches the student troubleshooting and repair techniques. PREREQ: Core block.

**AUTOTEC 256 ADVANCED ENGINE REPAIR (1-6-4)(F/S).** Advanced engine repair principles and concepts in diagnosis, disassembly, inspection, repair, and assembly of domestic and foreign car engines.

**AUTOTEC 257 ADVANCED ENGINE PERFORMANCE (1-6-4)(F/S).** Advanced principles and concepts in the diagnosis of problems and adjustment of vehicle computer control systems.

**AUTOTEC 258 ADVANCED AUTOMATIC TRANSMISSIONS AND TRANSAXLES (1-6-4)(F/S).** Advanced automatic and manual transmission principles and concepts in diagnosis, disassembly, inspection, repair, and assembly of domestic and foreign car automatic and manual transmissions.

**AUTOTEC 259 ADVANCED ALIGNMENT SYSTEMS (1-6-4)(F/S).** Advanced wheel alignment and brake system principles and concepts in the diagnosis and repair problems of two- and four-wheel drive vehicles utilizing computerized equipment.

**AUTOTEC 260 ADVANCED AUTO ELECTRICAL SYSTEMS (1-6-4)(F/S).** Advanced electrical systems principles and concepts in the diagnosis and repair of electrical problems utilizing computerized testing equipment.

# Broadcast Technology (2-Year Program)

*Instructors:* McArthur, Paluzzi.

Leading to an advanced technical certificate or an associate of applied science degree, 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 multi-track recording technology, satellite uplink technology, studio facilities design and construction, field production, videotape technology, broadcast operations, broadcast technology management, and broadcast equipment maintenance. Through opportunities offered by internship programs, technicians develop a realistic understanding of professional work ethics under actual working conditions.

**Broadcast Technology Advanced Technical Certificate**

| Course Number and Title | Credits |
|---|---|
| BRDTEC 108 Introduction to Audio and Video Technology | 3 |
| BRDTEC 109 Introduction to Audio and Video Technology Laboratory | 1 |
| BRDTEC 121 Broadcast Operations | 4 |
| BRDTEC 122 Broadcast Operations Laboratory | 1 |
| BRDTEC 217 Electronic Field Production | 4 |
| BRDTEC 218 Electronic Field Production Laboratory | 1 |
| BRDTEC 221 Broadcast Facilities Maintenance | 4 |
| BRDTEC 222 Broadcast Facilities Maintenance Laboratory | 1 |
| BRDTEC 230 RF for Broadcasting | 3 |
| BRDTEC 232 RF for Broadcasting Laboratory | 1 |
| BRDTEC 293 Broadcast Technology Internship | 1 |
| CNETSUPP 110 Introduction to Operating Systems | 3 |
| CNETSUPP 140 Networking Technologies | 3 |
| CNETSUPP 145 Network Service and Support | 3 |
| ELCTEC 101 DC Electronics Laboratory | 2 |
| ELCTEC 102 AC Electronics Laboratory | 2 |
| ELCTEC 151 DC Electronic Theory | 3 |
| ELCTEC 152 AC Electronic Theory | 2 |
| ELCTEC 162 Digital Systems I | 3 |
| ELCTEC 163 Digital Systems Lab I | 1 |
| ELCTEC 172 Solid State Devices | 3 |
| ELCTEC 173 Solid State Devices Lab | 3 |
| TECSUP 111 Applied Communication | 3 |
| TECSUP 139 Technical Math VI | 3 |
| TECSUP 181 Occupational Relations | 3 |
| Total | 61 |

**Broadcast Technology Associate of Applied Science**

| Course Number and Title | Credits |
|---|---|
| Successful completion of technical courses | 52 |
| TECSUP 139 Technical Math VI | 3 |
| ENGL 101 **and** ENGL 102 **or** COMM 101 | 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<br>Please refer to the A.A.S. requirements in Chapter 11 for explanation. | 3-4 |
| Total | 71 |

The associate of applied science (A.A.S.) degree articulates with BSU's bachelor of applied science (B.A.S.) degree.

## Course Offerings

**See page 53 for a definition of the course-numbering system.**

**BRDTEC — BROADCAST TECHNOLOGY**

**BRDTEC 108 INTRODUCTION TO AUDIO AND VIDEO TECHNOLOGY (3-0-3) (F/S).** Systems used in broadcasting: acoustics, signal to noise ratios, microphone usage, console design and operation, video and audio tape and tape recorder usage, audio and video editing, video switchers, camera operation and set up, and television graphics.

**BRDTEC 109 INTRODUCTION TO AUDIO AND VIDEO TECHNOLOGY LABORATORY (0-3-1)(F/S).** Lab to support BRDTEC 108.

**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 (0-3-1)(F/S).** Lab to support BRDTEC 121.

**BRDTEC 217 ELECTRONIC FIELD PRODUCTION (3-0-3)(F/S).** Broadcast field equipment maintenance techniques, utilization of audio and video broadcast equipment in the field. PREREQ: BRDTEC 221.

**BRDTEC 218 ELECTRONIC FIELD PRODUCTION LABORATORY (0-3-1)(F/S).** Lab to support BRDTEC 217.

**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 (0-3-1) (F/S).** Lab to support BRDTEC 221.

**BRDTEC 230 RF FOR BROADCASTING (3-0-3)(F/S).** Transmitters, receivers, transmission lines, fiber optics and antennas. PREREQ: BRDTEC 221.

**BRDTEC 232 RF FOR BROADCASTING LABORATORY (0-3-1)(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 Technology (9-Month or 2-Year Program)

*Instructors:* Benson, Harbacheck, Hartman, Metzgar, Orr.

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 2-year 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 associate of applied science degree.

**Business Technology Technical Certificate**

| Course Number and Title | Credits |
|---|---|
| BUSTEC 104 Leadership Development | 1 |
| BUSTEC 110 Document Formatting | 3 |
| BUSTEC 111 Document Processing | 3 |
| BUSTEC 112 Office Procedures | 3 |
| BUSTEC 118 Career Development | 3 |

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| *Business Technology, T.C. (continued)* | |
|---|---|
| BUSTEC 133 Business English | 3 |
| BUSTEC 135 Business Editing | 3 |
| BUSTEC 151 Applied Accounting I | 3 |
| BUSTEC 161 Introduction to Microcomputers | 3 |
| BUSTEC 163 Spreadsheet Applications | 2 |
| BUSTEC 165 Database Applications | 2 |
| TECSUP 138 Applied Business Math | 3 |
| Total | 32 |

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 | 32 |
| BUSTEC 231 Applied Business Communication | 3 |
| BUSTEC 252 Applied Accounting II | 3 |
| BUSTEC 253 Applied Accounting III | 3 |
| BUSTEC 255 Computerized Accounting | 3 |
| BUSTEC 257 Payroll Accounting | 3 |
| BUSTEC 261 Integrated Microcomputer Applications | 3 |
| BUSTEC 293 Business Technology Internship | 3 |
| Course chosen from COMM 101, MRKTEC 257, Area I or II Core | 3 |
| Total | 56 |

## Accounting Technology Associate of Applied Science

| Course Number and Title | Credits |
|---|---|
| Successful completion of Business Technology technical certificate | 32 |
| BUSTEC 231 Applied Business Communication | 3 |
| BUSTEC 252 Applied Accounting II | 3 |
| BUSTEC 253 Applied Accounting III | 3 |
| BUSTEC 255 Computerized Accounting | 3 |
| BUSTEC 257 Payroll Accounting | 3 |
| BUSTEC 261 Integrated Microcomputer Applications | 3 |
| BUSTEC 293 Business Technology Internship | 3 |
| ENGL 101 **and** ENGL 102 **or** COMM 101 | 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<br>Please refer to the A.A.S. requirements in Chapter 11 for explanation. | 3-4 |
| Total | 69 |
| The associate of applied science (A.A.S.) degree articulates with BSU's bachelor of applied science (B.A.S.) degree. | |

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 | 32 |
| BUSTEC 211 Word Processing Production I | 3 |
| BUSTEC 212 Word Processing Production II | 3 |
| BUSTEC 231 Applied Business Communication | 3 |
| BUSTEC 261 Integrated Microcomputer Applications | 3 |
| BUSTEC 267 Desktop Publishing | 3 |
| BUSTEC 285 Administrative Office Systems | 3 |
| BUSTEC 293 Business Technology Internship | 3 |
| Course chosen from COMM 101, MRKTEC 257, Area I or II Core | 3 |
| Total | 56 |

## Administrative Office Technology Associate of Applied Science

| Course Number and Title | Credits |
|---|---|
| Successful completion of Business Technology technical certificate | 32 |
| BUSTEC 211 Word Processing Production I | 3 |
| BUSTEC 212 Word Processing Production II | 3 |
| BUSTEC 231 Applied Business Communication | 3 |
| BUSTEC 261 Integrated Microcomputer Applications | 3 |
| BUSTEC 267 Desktop Publishing | 3 |
| BUSTEC 285 Administrative Office Systems | 3 |
| BUSTEC 293 Business Technology Internship | 3 |
| ENGL 101 **and** ENGL 102 **or** COMM 101 | 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<br>Please refer to the A.A.S. requirements in Chapter 11 for explanation. | 3-4 |
| Total | 69 |
| The associate of applied science (A.A.S.) degree articulates with BSU's bachelor of applied science (B.A.S.) degree. | |

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 | 32 |
| BUSTEC 211 Word Processing Production I | 3 |
| BUSTEC 231 Applied Business Communication | 3 |
| BUSTEC 271 Legal Terminology and Transcription | 3 |
| BUSTEC 273 Legal Office Technology I | 3 |
| BUSTEC 274 Legal Office Technology II | 3 |

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| *Legal Office Technology, A.T.C. (continued)* | |
|---|---|
| BUSTEC 277 Legal Documentation | 3 |
| BUSTEC 285 Administrative Office Systems | 3 |
| BUSTEC 293 Business Technology Internship | 3 |
| Total | 56 |

| Legal Office Technology<br>Associate of Applied Science | |
|---|---|
| **Course Number and Title** | **Credits** |
| Successful completion of Business Technology technical certificate | 32 |
| BUSTEC 211 Word Processing Production I | 3 |
| BUSTEC 231 Applied Business Communication | 3 |
| BUSTEC 271 Legal Terminology and Transcription | 3 |
| BUSTEC 273 Legal Office Technology I | 3 |
| BUSTEC 274 Legal Office Technology II | 3 |
| BUSTEC 277 Legal Documentation | 3 |
| BUSTEC 285 Administrative Office Systems | 3 |
| BUSTEC 293 Business Technology Internship | 3 |
| ENGL 101 **and** ENGL 102 **or** COMM 101 | 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<br>Please refer to the A.A.S. requirements in Chapter 11 for explanation. | 3-4 |
| Total | 72 |
| The associate of applied science (A.A.S.) degree articulates with BSU's bachelor of applied science (B.A.S.) degree. | |

# Course Offerings

**See page 53 for a definition of the course-numbering system.**

**BUSTEC — BUSINESS TECHNOLOGY**

**BUSTEC 100 KEYBOARDING (0-2-1)(F/S).** Introduction to the alphabetic and numeric computer keyboard and basic keyboarding techniques. Keyboarding speed of 25 net words per minute on a 2 minute timing must be achieved to pass course. Five-week course. (Pass/Fail).

**BUSTEC 104 LEADERSHIP DEVELOPMENT (1-1-1)(F/S).** Enhances professional development of students interested in careers in business. Emphasis on leadership skills, parliamentary procedures, interpersonal communication, and occupational skill enhancement. Competence developed through business-oriented community and campus projects and state and national leadership conferences and competition. Course may be repeated for maximum of 4 credits. (Pass/Fail).

**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 (1-5-3)(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 and demonstrated keyboarding speed of 30 net words per minute on a 3 minute timing.

**BUSTEC 112 OFFICE PROCEDURES (3-2-3)(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 (3-2-3)(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 (3-2-3)(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 (3-2-3)(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 (3-3-3)(F/S).** An introduction to the fundamentals of microcomputers and specialized software used in business, including word processing, database, spreadsheets, and operating systems.

**BUSTEC 163 SPREADSHEET APPLICATIONS (1-3-2)(F/S).** Concepts and applications of electronic spreadsheets with emphasis on business problem-solving. Includes creating and modifying worksheets, designing and printing graphs, and using spreadsheet functions for business decision-making. Eight-week course. PREREQ: BUSTEC 161.

**BUSTEC 165 DATABASE APPLICATIONS (1-3-2)(F/S).** Concepts and applications of electronic database management with emphasis on business problem-solving. Includes creating, maintaining, and querying databases and generating reports commonly used in business. Eight-week course. PREREQ: BUSTEC 161.

**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 289 FUNDAMENTALS OF SUPERVISION (3-0-3)(F/S).** Introduction to fundamental principles of first-line supervision emphasizing decision-making methods, conflict management techniques, time management systems, and motivational strategies. Experience in supervisory skills provided through use of case studies.

**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.

# Child Care and Development
## (9-Month or 2-Year Program)

*Instructors:* Martinsen, Noonan.

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. Contact program head for admission criteria.

**Child Care and Development Technical Certificate**

| Course Number and Title | Credits |
|---|---|
| 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 |
| Communications course chosen from COMM 101, COMM 112, COMM 131, COMM 221, COMM 356, ENGL 101, ENGL 102, or TECSUP 111 | 3 |
| Total | 31 |

Upon successful completion of the Technical Certificate, students take two additional semesters of coursework for an Associate of Applied Science Degree. Classes and practical experience prepare students for supervisory roles in early care and education programs. Experience with young children and staff in a variety of community programs emphasizes curriculum development and planning, staff supervision, assessment of children's growth, and parent communication. General education electives assure that the student has a well-rounded education that supports early education practices.

**Child Care and Development Associate of Applied Science**

| Course Number and Title | Credits |
|---|---|
| Successful completion of technical courses | 28 |
| CHLDCR 203 Child Care Practicum | 7 |
| 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 | 4 |
| EDUC 250 Exceptionality in the Schools **OR** MRKTEC 121 Business Concepts | 2-3 |

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***Child Care and Development, A.A.S. (continued)***

| | |
|---|---|
| ENGL 101 **and** ENGL 102 **or** COMM 101 | 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<br>Please refer to the A.A.S. requirements in Chapter 11 for explanation. | 3-4 |
| Total | 64-65 |

The associate of applied science (A.A.S.) degree articulates with BSU's bachelor of applied science (B.A.S.) degree.

# Course Offerings

**See page 53 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/COREQ: CHLDCR 100 and 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/S).** Integrated curriculum approach to activities in art, literature, storytelling, music, dance, and dramatic play for young children in a multicultural and anti-bias context. PREREQ/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. PREREQ/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 (1-13-7)(F).** 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 106 and PERM/INST.

**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 (2-5-4)(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.

# Computer Aided Manufacturing Technology (2-Year Program)

*Instructor:* Lonsdale.

The Computer Aided Manufacturing Technology Program is designed to prepare entry-level technicians to plan, organize, and control both manual and computerized manufacturing processes. Graduates from this program are prepared to participate in the computer aided manufacturing environment with a technical understanding of how each particular function integrates into a complete manufacturing system.

**Computer Aided Manufacturing Technology**
**Electrical Emphasis**
**OR**
**Mechanical Emphasis**
**Advanced Technical Certificate**

| Course Number and Title | Credits |
|---|---|
| BUSTEC 161 Intro to Computers **OR**<br>CIS 104, CIS 105, CIS 106 Computer Applications | 3 |
| COMM 101 Fundamentals of Speech Communication **OR**<br>TECSUP 111 Applied Communication | 3 |
| DRAFTEC 101 Machine Drafting | 4 |
| ECON 202 Principles of Microeconomics | 3 |
| ELCTEC 101 DC Electronics Lab<br>ELCTEC 102 AC Electronics Lab<br>ELCTEC 151 DC Electronics Theory<br>ELCTEC 152 AC Electronics Theory<br>ELCTEC 225 Programmable Logic Controllers<br>ELCTEC 226 Programmable Logic Controllers Lab | 2<br>2<br>3<br>2<br>1<br>1 |
| MFGTEC 100 Material and Process Manufacturing<br>MFGTEC 141 Introduction to Machining Processes I<br>MFGTEC 180 Advanced Machining<br>MFGTEC 183 Technical Writing<br>MFGTEC 185 Practicum: Facilities Tours<br>MFGTEC 201 Quality Assurance and Statistical Process Control<br>MFGTEC 210 Introductory Robotics<br>MFGTEC 215 Pneumatic Control<br>MFGTEC 231 Technical Physics<br>MFGTEC 280 Manufacturing Project | 3<br>3<br>3<br>1<br>1<br>4<br>3<br>3<br>4<br>4 |
| TECSUP 139 Technical Math VI **AND**<br>TECSUP 141 Technical Math VII **OR**<br>MATH 108 Intermediate Algebra **AND**<br>MATH 147 Precalculus<br>TECSUP 181 Occupational Relations | 6-9<br><br><br><br>3 |
| **Electrical Emphasis** | |
| CHEM 115 Materials Science Chemistry | 4 |
| ELCTEC 162 Digital Systems I<br>ELCTEC 163 Digital Systems Lab<br>ELCTEC 241 Instrumentation<br>ELCTEC 242 Instrumentation Lab | 3<br>1<br>3<br>1 |
| Total | 74-77 |
| **Mechanical Emphasis** | |
| MFGTEC 212 Computer Aided Drafting/Computer Aided Manufacturing<br>MFGTEC 261 Jig, Fixture and Tool Design | 3<br>3 |
| Total | 68-71 |

The associate of technical certificate (A.T.C.) degree articulates with the associate of applied science (A.A.S.) degree.

**Computer Aided Manufacturing Technology**
**Electrical Emphasis**
**OR**
**Mechanical Emphasis**
**Associate of Applied Science**

| Course Number and Title | Credits |
|---|---|
| Successful completion of the advanced technical certificate | 68-77 |
| ENGL 101 **and** ENGL 102 **or** COMM 101<br>Area I or II core course in any field<br>Area III core course in mathematics<br>Area I, II, or III core course in any field<br>Please refer to the A.A.S. requirements in Chapter 11 for explanation. | 6<br>3<br>3-5<br>3-4 |
| Total | 76-87 |

The associate of applied science (A.A.S.) degree articulates with BSU's bachelor of applied science (B.A.S.) degree.

# Course Offerings

**See page 53 for a definition of the course-numbering system.**

**MFGTEC — COMPUTER AIDED MANUFACTURING TECHNOLOGY**

**MFGTEC 100 MATERIAL AND PROCESS MANUFACTURING (3-0-3)(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 141 INTRODUCTION TO MACHINING PROCESSES I (2-3-3)(F).** This sequence covers safety, shop practice and production rates. Also included are the set-up and operation of the lathes, milling machines, drill presses, power saws and grinders.

**MFGTEC 180 ADVANCED MACHINING PROCESSES (1-6-3)(S).** This sequence covers the use of special attachments, bench work, layout, heat treating, hardness testing, layout inspection, and computer numerical control mill set-up, operation, and programming.

**MFGTEC 183 TECHNICAL WRITING (1-1-1)(F/S).** A study of technical communication and writing within the occupational field of study. Assignments are related to discipline with topics to include in-depth work in technical style and the common kinds of documents produced in business and industry, including proposals, progress reports, completion reports and manuals.

**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).** Statistical methods of manual and computerized manufacturing control will be examined. Subjects covered include generating and evaluating control charts of both attributes and characteristics, probability, error detection vs. prevention techniques, and inspection criteria. COREQ: TECSUP 141 or equivalent.

**MFGTEC 210 INTRODUCTORY ROBOTICS (2-3-3)(F/S).** Overview course of automated manufacturing using 3-D pick and place technology and articulated arm robotics. Course will emphasis limits of precision and accuracy, stepper motor control, and connectivity with other computerized manufacturing operations.

**MFGTEC 212 COMPUTER AIDED DRAFTING/COMPUTER AIDED MANUFACTURING (2-3-3)(F).** Writing computer numerical control (CNC) machine tool programs using computer-assisted techniques to generate machine firm-ware, set up and operation, development of tooling concepts, preset cutting tooling, machine 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: MFGTEC 180 or equivalent.

**MFGTEC 215 PNEUMATIC CONTROL (2-3-3)(F/S).** Overview course in automated pneumatic control will study the methods by which pneumatics are used to control manufacturing processes. Subjects will include mass flow controllers, pressure regulators and transformers, air flow controllers, and digital air logic.

**MFGTEC 231 TECHNICAL PHYSICS (3-3-4)(F/S).** The study of technical and their applications 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. (May be taken in either the freshman or sophomore year.) PREREQ: TECSUP 139 or equivalent.

**MFGTEC 261 JIG, FIXTURE AND TOOL DESIGN (1-6-3)(F/S).** This lecture/lab class examines the development of manufacturing plans for efficient manufacture of moderately complex products produced in moderate volumes using production manufacturing: machines, setups and jig, and fixtures. Emphasizes development and fabrication of control equipment and actual moderate volume production. PREREQ: TECSUP 139 or equivalent.

**MFGTEC 280 MANUFACTURING PROJECT (2-6-4)(F/S).** A capstone course utilizing all the skills attained to design and simulate a manufacturing operation for an assigned product. Students will work individually and in small teams. PREREQ: Sophomore stand and PERM/INST.

# Computer Network Support Technology (9-Month or 2-Year Program)

*Instructors:* Hancock, Otto, Sarriugarte.

The Computer Network Support Technology program prepares technicians to implement, and maintain computer network systems. Participants develop entry-level technical skills in the following area: network administration, hardware and software installation, wide area networking, and troubleshooting common problems associated with network operating systems.

Five options are available to students enrolled in this program: a two-year associate of applied science degree (A.A.S.); a 9-month technical certificate — Microsoft track with an emphasis on Microsoft networks; a 9-month technical certificate — Novell track with an emphasis on Novell networks; an 18 month advanced technical certificate; and a post-secondary technical certificate. The advanced technical certificate and the A.A.S. cover both Novell and Microsoft network operating systems.

### Computer Network Support Technician Post-Secondary Technical Certificate

| Course Number and Title | Credits |
|---|---|
| Students may obtain a post-secondary technical certificate by completing 8 to 18 credit hours of course work. Courses included in this option must have a CNETSUPP prefix. Students must submit a program proposal and obtain approval from the program head of Computer Network Support Technology prior to completion of this certificate program | 8-18 |
| Total | 8-18 |

### Computer Network Support Technician Microsoft Track and/or Novell Track Technical Certificate

| Course Number and Title | Credits |
|---|---|
| CIS 104-CIS 105-CIS 106 Computer Applications **OR** BUSTEC 161 Introduction to Microcomputers | 3 |
| TECSUP 111 Applied Communications **OR** COMM 101 Fundamentals of Speech Communication | 3 |
| TECSUP 139 Technical Math VI | 3 |
| TECSUP 181 Occupational Relations | 3 |
| TECSUP 221 Technical Writing | 3 |
| **Microsoft Track** | |
| CNETSUPP 110 Introduction to Operating Systems | 3 |
| CNETSUPP 120 Introduction to Computer Programming | 3 |
| CNETSUPP 140 Networking Technologies | 3 |
| CNETSUPP 200 Client-Server Networking | 3 |
| CNETSUPP 235 Enterprise Networking | 3 |
| CNETSUPP 245 Network Applications Integration | 3 |
| CNETSUPP 260 TCP/IP | 3 |
| Total | 36 |
| **Novell Track** | |
| CNETSUPP 145 Network Service and Support | 3 |
| CNETSUPP 201 Network Systems Administration | 3 |
| CNETSUPP 250 Advanced Network Systems Administration | 3 |
| CNETSUPP 262 Network Management | 3 |
| CNETSUPP 265 Design and Implementation | 3 |
| Total | 30 |

### Computer Network Support Technician Advanced Technical Certificate

| Course Number and Title | Credits |
|---|---|
| Successful completion of Microsoft and Novell Tracks | 51 |
| CNETSUPP 293 Computer Network Technician Internship | 2 |
| Total | 53 |

### Computer Network Support Technician Associate of Applied Science

| Course Number and Title | Credits |
|---|---|
| Successful completion of technical courses | 44 |
| CNETSUPP 210 Advanced UNIX/ANSI C | 3 |
| MRKTEC 121 Business Concepts **OR** MRKTEC 262 Small Business Management | 3 |
| ENGL 101 **and** ENGL 102 **or** COMM 101 | 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<br>Please refer to the A.A.S. requirements in Chapter 11 for explanation. | 3-4 |
| Total | 66 |

The associate of applied science (A.A.S.) degree articulates with BSU's bachelor of applied science (B.A.S.) degree.

## Course Offerings

**See page 53 for a definition of the course-numbering system.**

**CNETSUPP — COMPUTER NETWORK SUPPORT TECHNICIAN**

**CNETSUPP 110 INTRODUCTION TO OPERATING SYSTEMS (2-3-3)(F).** Course provides basic training in UNIX and Windows-based operating system. System commands, printing, file editing, scripts and peer-to-peer networking.

**CNETSUPP 120 INTRODUCTION TO COMPUTER PROGRAMMING (2-3-3)(F).** Documentation techniques used for developing computer programs. Basic programming techniques and terminology using a high-level programming language. The student will apply this information to write simple programs.

**CNETSUPP 140 NETWORKING TECHNOLOGIES (2-3-3)(F).** Basic concepts of data communications, including networking and connectivity, network structures, data translation, and communication protocols.

**CNETSUPP 145 NETWORK SERVICE AND SUPPORT (2-3-3)(F).** Installation of network hardware and software, and upgrading and troubleshooting procedures for network environments. COREQ: CNETSUPP 140.

**CNETSUPP 200 CLIENT-SERVER NETWORKING (2-3-3)(F).** Planning, installing, and configuring network servers and clients. Protocols, sharing, policies, migration, optimization, architectural and administration issues COREQ: CNETSUPP 110.

**CNETSUPP 201 NETWORK SYSTEMS ADMINISTRATION (2-3-3)(F).** Course teaches the fundamental skills needed to manage a network effectively. Network utilities, drive mapping, security, menu utilities, printing, log-in scripts, menus and system backups are covered.

**CNETSUPP 210 ADVANCED UNIX/ANSI C (2-3-3)(F).** Course covers UNIX command line utilities and advanced system administration. The second half of the class is used to teach the fundamentals of ANSI C programming. PREREQ: CNETSUPP 110.

**CNETSUPP 235 ENTERPRISE NETWORKING (2-3-3)(S).** Implementing and managing complex networks. Domains, trusts, groups, file systems. Installing and configuring network protocols, managing clients, and troubleshooting. PREREQ: CNETSUPP 200.

**CNETSUPP 245 NETWORK APPLICATIONS INTEGRATION (2-3-3)(S).** Techniques for applications development within the infrastructure of an intranet or internet. PREREQ: CNETSUPP 200.

**CNETSUPP 250 ADVANCED NETWORK SYSTEMS ADMINISTRATION (2-3-3)(S).** Course teaches how to monitor and maintain a network. Includes advanced printing, remote monitoring, and management, preventive maintenance, and unique advanced network administration features of different network systems. PREREQ: CNETSUPP 201.

**CNETSUPP 260 TCP/IP (2-3-3)(S).** Features and benefits of internetwork software. Routing, name resolution, dynamic IP assignment, and common problems. PREREQ: CNETSUPP 200.

**CNETSUPP 262 NETWORK MANAGEMENT (2-3-3)(S).** Management of applications and services on internet and intranet servers where one or more protocols are involved. Troubleshooting common problems. PREREQ: CNETSUPP 250.

**CNETSUPP 265 DESIGN AND IMPLEMENTATION (2-3-3)(S).** Design and creation of a network implementation plan. PREREQ: CNETSUPP 250.

**CNETSUPP 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 (9-Month or 2-Year Program)

*Instructors:* Borge, Cadwell, Dunbar, Pfautsch.

The Computer Service Technology program offers students an option in A+ Computer Hardware Service. This technical certificate option is designed to give students the basic knowledge and skills in computer and peripheral hardware repair concerning adjustments, upgrades, software knowledge, component replacement, and electromechanical operation. Students completing A+ Computer Hardware Service successfully can receive a technical certificate.

The Computer Service Technology program offers an additional technical certificate option called Networking Technology. Networking Technology course work offers graduates entry-level skills aimed at employment as network hardware and software technicians. Students will gain competencies in the following network areas: media, network equipment, tools meters, network design, subnetting, servers, operation systems and more. Students completing the Networking Technology course work successfully can receive a technical certificate.

The Computer Service Technology program is designed to give students the basic knowledge and skills necessary to function as entry-level computer, computer peripheral and network technicians. Graduates will be qualified to troubleshoot hardware and software problems, replace components, and make necessary adjustments. Graduates will have the technical ability to maintain equipment, software and media used in local area and wide area networks. Students completing the program with the required core courses can qualify for the associate of applied science degree. Students completing the program with approved related technical instruction courses successfully can qualify for an advanced technical certificate.

**A+ Computer Hardware Service Technical Certificate**

| Course Number and Title | Credits |
|---|---|
| CST 105 Computer Peripheral Service Lab | 5 |
| CST 106 Computer Peripheral Service | 5 |
| CST 151 Computer Repair Lab | 6 |
| CST 152 Computer Repair | 5 |
| CST 160 Customer Service | 1 |
| CIS 104-CIS 105-CIS 106 Computer Applications **OR** BUSTEC 161 Intro to Microcomputers | 3 |
| TECSUP 111 Applied Communications | 3 |
| TECSUP 136 Technical Math IV | 3 |
| TECSUP 181 Occupational Relations | 3 |
| Total | 34 |

**Networking Technology Technical Certificate**

| Course Number and Title | Credits |
|---|---|
| CIS 104-CIS 105-CIS 106 Computer Applications **OR** BUSTEC 161 Introduction to Microcomputers | 3 |
| CST 252 Introduction to Networking I | 3 |
| CST 253 Introduction to Networking I Lab | 3 |
| CST 263 Introduction to Networking II | 3 |
| CST 264 Introduction to Networking II Lab | 3 |
| CST 271 Networking III | 3 |
| CST 272 Networking III Lab | 3 |
| CST 274 Networking Technology | 3 |

*— continued —*

***Networking Technology, T.C. (continued)***

| | |
|---|---|
| CST 275 Networking Technology Lab | 3 |
| TECSUP 111 Applied Communications | 3 |
| TECSUP 136 Technical Math IV | 3 |
| TECSUP 181 Occupational Relations | 3 |
| Total | 36 |

**Computer Service Technology Advanced Technical Certificate**

| Course Number and Title | Credits |
|---|---|
| Successful completion of A+ Computer Hardware Service | 34 |
| Successful completion of Networking Technology | 24 |
| Total | 58 |

**Computer Service Technology Associate of Applied Science**

| Course Number and Title | Credits |
|---|---|
| Successful completion of CST courses | 46 |
| ENGL 101 **and** ENGL 102 **or** COMM 101 | 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<br>Please refer to the A.A.S. requirements in Chapter 11 for explanation. | 3-4 |
| Additional 6 credits from approved electives, or related technical courses: COMM 131, COMM 221, GENBUS 101, CIS 104, CIS 105, CIS 106, TECSUP 111, TECSUP 181 | 6 |
| Total | 68 |
| The associate of applied science (A.A.S.) degree articulates with BSU's bachelor of applied science (B.A.S.) degree. | |

# Course Offerings

**See page 53 for a definition of the course-numbering system.**

**BSCTEC — BUSINESS SYSTEMS AND COMPUTER TECHNOLOGY**

**BSCTEC 103 Electronics Lab** Experiments and trouble-shooting exercises in semiconductor electronic circuits and systems. First eight week block. Corequisite: BSCTEC 159.

**BSCTEC 159 SEMICONDUCTOR ELECTRONICS THEORY (3-0-3)(F/S).** Study of semiconductor electronic devices and circuits with emphasis on analyzing the relationship of components in circuits and trouble-shooting malfunctioning circuits. First eight week block. PREREQ: BSCTEC 103.

**CST — COMPUTER SERVICE TECHNOLOGY**

**CST 105 COMPUTER PERIPHERAL SERVICE LAB (0-10-5)(F/S).** Hands-on troubleshooting course. Students are instructed in proper use of tools, test equipment and mechanical devices used in conjunction with electromechanical and computerized equipment. Skills are developed through lab projects involving electronics and mechanical processes. COREQ: CST 106.

**CST 106 COMPUTER PERIPHERAL SERVICE (5-0-5)(F/S).** Introduces students to peripheral equipment theory and troubleshooting. Students will investigate computer printers, including laser and the xerographic process. Skills are developed through classes in mechanical and electronic theory, supported by lab equipment investigation. COREQ: CST 105.

**CST 151 COMPUTER REPAIR LAB (0-12-6)(F/S).** Hands-on lab supported by theory discussions where the principles taught in CST 152 are studied and analyzed as they apply to computers and computer peripherals. COREQ: CST 152.

**CST 152 COMPUTER REPAIR (5-0-5)(F/S).** Concepts in logic, circuitry, troubleshooting and component replacement procedures are taught to prepare students for entry-level computer repair employment. Course covers hardware and software applications. COREQ: CST 151.

**CST 160 CUSTOMER SERVICE (1-0-1)(F/S).** Introduction to proper telephone use, conversational skills and sales techniques from a technical standpoint.

**CST 252 INTRODUCTION TO NETWORKING I (6-0-3)(F/S).** Students are introduced to OSI networking layers, MAC addressing, classes of IP addresses, subnetting, and TCP/IP network layer protocols. Students will gain knowledge in network design, topology, media, network tools, meters and connector types. First 8 weeks. COREQ: CST 253.

**CST 253 INTRODUCTION TO NETWORKING I LAB (0-12-3)(F/S).** Hands-on lab where students will investigate network design concerning topology, equipment set-up, tools and meter use. Students will determine network-numbering systems using binary and hex calculations. First 8 weeks. COREQ: CST 252.

**CST 263 INTRODUCTION TO NETWORKING II (6-0-3)(F/S).** Theory aimed at determining methods of networking, router examination, control, configuring, function of MAC address and backup procedures. Second 8 weeks.COREQ: CST 264.

**CST 264 INTRODUCTION TO NETWORKING II LAB (0-12-3)(F/S).** Students will gain experience in working with different network designs and equipment, including router control, examination and configuring. Second 8 weeks. COREQ: CST 263.

**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.

## 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 53 for a definition of the course-numbering system.**

**CORBLK — CORE BLOCK**

**CORBLK 101 INTRODUCTION TO MECHANICS (1-1-1)(F,S).** Basic principles of mechanics, including orientation, mechanical careers, certification, personal and shop safety, study skills, basic hand tools, power tools and equipment, using service manuals, fasteners, lines and fittings, taps, dies, heli-coil, measuring and drills, gaskets, seals, and sealants.

**CORBLK 105 INTRODUCTION TO ENGINES (1-1-1)(F,S).** Theory and principles of operation, classifications and identification. The use of shop math and measuring instruments for precision parts measuring.

**CORBLK 109 BASIC ELECTRICITY AND ELECTRONICS (1-1-1)(F,S).** Principles of electricity and electric circuits. Compare voltage, current and resistance. Principles of magnetism and magnetic fields, battery testing and service, using symbols and wiring diagrams. Perform fundamental electrical tests, and soldering skills.

**CORBLK 113 CHASSIS AND EXHAUST SYSTEMS (1-1-1)(F,S).** This course covers tire, wheel, hub, shock, and wheel bearing fundamentals and service. Exhaust system identification of basic parts and design differences. Performance of exhaust system repairs.

**CORBLK 117 VEHICLE AND EQUIPMENT MAINTENANCE (1-l-1)(F,S).** This course covers lubrication, cooling system, air supply system, and fuel system service procedures and repairs.

**CORBLK 121 BASIC WELDING AND METAL WORK (1-1-1)(F,S).** This course covers basic oxyacetylene, arc, m.i.g. and t.i.g. welding processes. Oxyacetylene torch cutting techniques, measuring, marking and bending metal properly, and welding safety.

**CORBLK 129 INTRODUCTION TO MICROCOMPUTERS (1-1-1)(F,S).** This course introduces the student to microcomputer skills related to the mechanical technology service field, including DOS and basic word processing.

**CORBLK 257 ELECTRO-MECHANICAL THEORY (4-1-4)(F,S).** Students gain experience through theory and hands on experiments which assist student understanding of DC circuits, OHMS Law, magnetism and properties of electronic components. (Note: This is an optional/elective course for skill enhancement.)

# Culinary Arts (9-Month or 2-Year Program)

*Instructors:* Dever, Hickman, Kulm.

The Culinary Arts Program provides basic training and education for cooks, apprentice chefs, and managers. The curriculum offers students an opportunity to:

- learn and effectively practice basic and advanced technical skills in food preparation and service
- understand the principles of food identification, nutrition, and food and beverage composition
- acquire basic supervisory skills to efficiently and effectively use human and physical resources in food-service operations
- 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 appreciation for the history, evolution, and international diversity of the culinary arts
- develop a personal sense of professionalism necessary for working successfully in the food-service industry

The core of the Culinary Arts Program is hands-on teaching of cooking and baking skills, as well as the theoretical knowledge that must underlie competency in both cooking and baking. The objective is to teach students not only how to work in the kitchen, but also how a kitchen functions. Related to our mission of professional training are the courses that complete a food service education: courses in table service, wines, menu, facilities planning, cost controls, supervisory development, storeroom, and stewardship.

Students may pursue either a 9-month technical certificate or a 2-year associate of applied science degree in culinary arts. The program is fully accredited by the American Culinary Foundation Educational Institute.

**Culinary Arts**
**Post-Secondary Technical Certificate**

| Course Number and Title | Credits |
|---|---|
| CULART 102 Culinary Skills Development | 3 |
| CULART 103 Sanitation, Safety, and Health | 2 |
| CULART 105 Cost Controls | 1 |
| CULART 106 Baking I | 2 |
| CULART 107 Dining Room Lab I | 1 |
| CULART 110 Bakery Lab I | 1 |
| CULART 111 Kitchen Lab I | 2 |
| CULART 112 Introductory Hot Foods | 3 |
| CULART 113 Pantry, Basic Garde Manger | 3 |
| Total | 18 |

**Culinary Arts**
**Technical Certificate**

| Course Number and Title | Credits |
|---|---|
| Successful completion of post-secondary technical certificate | 18 |
| CULART 115 Dining Room Procedures | 2 |
| CULART 117 Dining Room Lab II | 1 |
| CULART 120 Bakery Lab II | 2 |
| CULART 121 Kitchen Lab II | 2 |
| CULART 125 Center of the Plate | 3 |
| CULART 128 Global Cuisine | 3 |
| CULART 132 Nutrition for Foodservice | 2 |
| TECSUP 181 Occupational Relations | 3 |
| Total | 36 |

| Culinary Arts Advanced Technical Certificate | |
|---|---|
| **Course Number and Title** | **Credits** |
| Successful completion of technical certificate | 36 |
| CULART 205 Advanced Cost Controls | 3 |
| CULART 206 Baking II | 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 219 Hospitality Purchasing Lab | 1 |
| Total | 53 |

| Culinary Arts Associate of Applied Science | |
|---|---|
| **Course Number and Title** | **Credits** |
| Successful completion of technical courses | 50 |
| CULART 293 Culinary Internship | 3 |
| ENGL 101 **and** ENGL 102 **or** COMM 101 | 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<br>Please refer to the A.A.S. requirements in Chapter 11 for explanation. | 3-4 |
| Total | 69 |
| The associate of applied science (A.A.S.) degree articulates with BSU's bachelor of applied science (B.A.S.) degree. | |

# Course Offerings

**See page 53 for a definition of the course-numbering system.**

**CULART — CULINARY ARTS**

**CULART 102 CULINARY SKILLS DEVELOPMENT (3-2-3)(F/S).** An introduction to the food service industry and basic cooking methods, tools, and equipment. Recipe and menu make-up and basic knife skills are taught.

**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 105 COST CONTROL (1-0-1)(F/S).** An introduction to the food service cost control method, procedures and math.

**CULART 106 BAKING I (2-1-2)(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 LAB (0-3-1)(F/S).** Front-of-the-house service techniques and procedures. Basic skills in table and banquet service, guest relations, and cash handling procedures. 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. COREQ: CULART 103, CULART 106.

**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. COREQ: CULART 102, CULART 103, CULART 112, and CULART 113.

**CULART 112 INTRODUCTORY HOT FOODS (3-2-3)(F/S).** Fundamental technique of basic hot menu items such as soups, sauces, stocks, vegetables and entrees are demonstrated and/or practiced.

**CULART 113 PANTRY, BASIC GARDE MANGER (3-2-3)(F/S).** A basic course in the fundamentals of pantry, cold food preparation, and breakfast cookery. Students are instructed in the proper techniques and procedures for preparing a variety of lunch and dinner salads and salad dressings, hot and cold sandwiches, garnishes, canapes, and breakfast items.

**CULART 115 DINING ROOM PROCEDURES (2-0-2)(F/S).** Covers equipment, personnel responsibility, organization, customer relations, sanitation, table arrangements, and set-ups. A variety of techniques are covered and practiced.

**CULART 117 DINING ROOM LAB II (0-3-1)(F/S).** Table and banquet service, guest relations, cash handling procedures, supervisory skills of training, delegating, and maintaining records. PREREQ: CULART 107.

**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.

**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 105 and CULART 111.

**CULART 125 CENTER OF THE PLATE (3-1-3)(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 (3-1-3)(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.

**CULART 132 NUTRITION FOR FOODSERVICE (2-1-2)(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 205 ADVANCED COST CONTROLS (3-0-3)(F/S).** Theory of hospitality operations: food, beverage, labor, and sales income. Basic concepts of menu planning, formats and evaluation, break-even analysis, and menu engineering functions. PREREQ: CULART 105.

**CULART 206 BAKING II (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 110.

**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 (2-1-2)(F/S).** Management concepts of specific techniques in purchasing, receiving, storing, issuing, and inventory control of commodities essential in hospitality operations. COREQ: CULART 219.

**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. PREREQ: CULART 120. 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 (1-1-2)(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. PREREQ: CULART 111 and CULART 125.

**CULART 219 HOSPITALITY PURCHASING LAB (0-3-1)(F/S).** Management concepts and specific techniques in purchasing, receiving, storing, issuing, and inventory control of commodities essential in hospitality operations. Current computer applications for food service purchasing functions. COREQ: CULART 209.

**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.

# Dental Assisting (9-Month or 2-Year Program)

*Instructors:* Beckman, Imbs, Tollinger.

Leading to a technical certificate or associate of applied science degree, the curriculum includes dental assisting theory and laboratory instruction, as well as, clinical experiences in area dental offices. Entrance requirements: high school diploma or equivalency certificate, personal interview, and references. Prerequisites are: current Standard First Aid card, CPR card, and keyboarding or typing. Instructors are Certified Dental Assistants, and guest lecturers. The program is accredited by the Commission on Dental Accreditation, 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.

| Dental Assisting Technical Certificate | |
|---|---|
| **Course Number and Title** | **Credits** |
| COMM 101 Fundamentals of Speech Communication | 3 |
| DNTASST 101 Dental Laboratory | 6 |
| DNTASST 102 Dental Laboratory | 5 |
| DNTASST 104 Dental Radiology | 4 |
| DNTASST 106 Dental Assisting Clinical Experience | 7 |
| DNTASST 108 Dental Office Management | 2 |
| DNTASST 109 Public Health and Dental Hygiene | 2 |
| DNTASST 151 Dental Theory | 6 |
| DNTASST 152 Dental Theory | 6 |
| TECSUP 181 Occupational Relations | 3 |
| Total | 44 |

| Dental Assisting Associate of Applied Science | |
|---|---|
| **Course Number and Title** | **Credits** |
| Successful completion of technical courses | 41 |
| DNTASST 255 Advanced Dental Assisting Practicum I | 4 |
| DNTASST 256 Advanced Dental Assisting Practicum II | 4 |
| ENGL 101 **and** ENGL 102 **or** COMM 101 | 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<br>Please refer to the A.A.S. requirements in Chapter 11 for explanation. | 3-4 |
| Total | 65 |
| The associate of applied science (A.A.S.) degree articulates with BSU's bachelor of applied science (B.A.S.) degree. | |

## Course Offerings

**See page 53 for a definition of the course-numbering system.**

**DNTASST — DENTAL ASSISTING**

**DNTASST 101 DENTAL LABORATORY (1-11-6)(F).** Provides practical laboratory experience in handling dental materials, instruments and chair-side assisting.

**DNTASST 102 DENTAL LABORATORY (1-8-5)(S).** Provides practical laboratory experience to clinical competency in chair-side skills and expanded dental assisting functions.

**DNTASST 104 DENTAL RADIOLOGY (1-7-4)(F).** Provides dental assisting students the opportunity to become skilled in dental x-ray procedures with an emphasis on safety.

**DNTASST 106 DENTAL ASSISTING CLINICAL EXPERIENCE (0-20-7)(S).** Supervised experience in private dental offices and clinics.

**DNTASST 108 DENTAL OFFICE MANAGEMENT (2-0-2)(F).** Covers the fundamentals of business practices related to dentistry.

**DNTASST 109 PUBLIC HEALTH AND DENTAL HYGIENE (2-0-2)(F).** The classwork deals with preventive dentistry and patient education.

**DNTASST 151-152 DENTAL THEORY (6-0-6)(F/S).** Lectures cover the 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.

# Drafting Technology (9-Month or 2-Year Program)

*Instructors:* Benton, Burkey, Shinn.

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, at solving basic design problems, and at providing engineering support.

In addition, they will be eligible to transfer into the Bachelor of Applied Science (B.A.S.) Degree Program.

| Drafting Technology Technical Certificate | |
|---|---|
| **Course Number and Title** | **Credits** |
| BUSTEC 161 Intro to Microcomputers | 3 |
| DRAFTEC 101 Machine Drafting | 4 |
| DRAFTEC 102 Architectural Drafting | 4 |
| DRAFTEC 109 Fundamentals of Computer-Aided Drafting and Design | 2 |
| DRAFTEC 110 Advanced Computer-Aided Drafting and Design | 2 |
| DRAFTEC 221 Descriptive Geometry and Development | 2 |
| ENGL 101 English Composition **OR**<br>TECSUP 111 Applied Communications | 3 |
| MFGTEC 100 Material and Process Manufacturing | 3 |
| MFGTEC 231 Technical Physics | 4 |
| TECSUP 139 Technical Math VI | 3 |
| TECSUP 141 Technical Math VII | 3 |
| Total | 33 |

| Drafting Technology Advanced Technical Certificate | |
|---|---|
| **Course Number and Title** | **Credits** |
| Successful completion of technical certificate | 33 |
| CE 210, 211 Engineering Surveying and Lab | 3 |
| COMM 101 Fundamentals of Speech Communication | 3 |
| DRAFTEC 201 Civil Drafting | 5 |
| DRAFTEC 202 Structural Drafting | 5 |
| DRAFTEC 209 Introduction to 3-Dimensional CAD | 3 |
| DRAFTEC 241 Statics | 3 |
| DRAFTEC 242 Strength of Materials | 3 |
| DRAFTEC 264 Technical Illustration | 2 |
| ELCTEC 105 Drafting Electronics | 2 |
| TECSUP 221 Technical Report Writing | 3 |
| Elective chosen from PSYC 101, or SOC 101 | 3 |
| Total | 68 |

| Drafting Technology Associate of Applied Science | |
|---|---|
| **Course Number and Title** | **Credits** |
| Successful completion of technical courses | 53 |
| ENGL 101 **and** ENGL 102 **or** COMM 101 | 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<br>Please refer to the A.A.S. requirements in Chapter 11 for explanation. | 3-4 |
| Total | 69 |
| The associate of applied science (A.A.S.) degree articulates with BSU's bachelor of applied science (B.A.S.) degree. | |

| Drafting Technology<br>Associate of Applied Science, Advanced Option | |
|---|---|
| **Course Number and Title** | **Credits** |
| Successful completion of associate of applied science | 69 |
| DRAFTEC 301 Advanced Machine Drafting and Design<br>DRAFTEC 302 Electrical and Hydraulic Drafting<br>DRAFTEC 310 3-Dimensional Modeling and Animation | 3<br>3<br>3 |
| Electives chosen from CE 310, DRAFTEC 243, DRAFTEC 311<br>DRAFTEC 350, MFGTEC 210, MFGTEC 215 | 6 |
| Total | 84 |
| The associate of applied science (A.A.S.) degree articulates with BSU's bachelor of applied science degree. | |

## Course Offerings

**See page 53 for a definition of the course-numbering system.**

**DRAFTEC — DRAFTING TECHNOLOGY**

**Lower Division**

**DRAFTEC 101 MACHINE DRAFTING (2-6-4)(F/S).** Mechanical drafting with basic drafting techniques, standards, methods, and basic manufacturing fits of mating parts. COREQ: DRAFTEC 109.

**DRAFTEC 102 ARCHITECTURAL DRAFTING (2-6-4)(F/S).** Facility planning, remodeling, and sections and details for commercial buildings. PREREQ: DRAFTEC 101. COREQ: DRAFTEC 110.

**DRAFTEC 109 FUNDAMENTALS OF COMPUTER-AIDED DRAFTING AND DESIGN (2-1-2)(F/S).** This course is an introduction to computer-aided drafting and design (CADD) systems. It will prepare students to operate the systems and understand the applications of computer graphics to industry standards. Students will learn to use an interactive computer graphics system to prepare drawings on a CRT. They will store and retrieve drawings and related information on a magnetic disc and produce commercial quality copies using a computer-driven plotter. Problems will be assigned in conjunction with the lab DRAFTEC 101. COREQ: Familiarity with basic drafting procedures and standards.

**DRAFTEC 110 ADVANCED COMPUTER-AIDED DRAFTING AND DESIGN (2-1-2)(F/S).** Course provides the student with advanced skills in isometrics, paper space, attributes, attachments, X-referencing, and dimensioning. PREREQ: DRAFTEC 109.

**DRAFTEC 201 CIVIL DRAFTING (3-6-5)(F).** Mapping, highway curves, and earthwork using conventional and computer drafting techniques. PREREQ: DRAFTEC 101, DRAFTEC 110 and TECSUP 141 or MATH 144 or MATH 147. COREQ: CE 210, CE 211.

**DRAFTEC 202 STRUCTURAL DRAFTING (3-6-5)(S).** Terminology, structural steel detailing, reinforcing steel specifications and computerized drawing practice. PREREQ: DRAFTEC 101, DRAFTEC 110, and TECSUP 141, MATH 144, or MATH 147.

**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 221 DESCRIPTIVE GEOMETRY AND DEVELOPMENT (2-1-2)(F/S).** Theory and practice of coordinate projection applied to the solution of properties of points, lines, planes and solids. Includes practical drafting applications. PREREQ: DRAFTEC 101.

**DRAFTEC 241 STATICS (3-0-3)(F).** Introduces statics with emphasis on analysis of simple structures and drafting concepts. PREREQ: TECSUP 141 or MATH 144 or MATH 147.

**DRAFTEC 242 STRENGTH OF MATERIALS (3-0-3)(F/S).** Analysis of stress and strain in tension, compression and bending stress. Introduction to limited structural design and drafting concepts. PREREQ: TECSUP 141, or MATH 144 or MATH 147.

**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.

**DRAFTEC 264 TECHNICAL ILLUSTRATION (1-3-2)(S).** Intensive study of axonometric, and perspective illustration drawing emphasizing shading, shadowing and color techniques. PREREQ: DRAFTEC 101.

**Upper Division**

**DRAFTEC 301 ADVANCED MACHINE DRAFTING AND DESIGN (2-4-3)(F/S).** Tool design, jigs, fixtures, and production flow processes. PREREQ: DRAFTEC 101, DRAFTEC 110, and DRAFTEC 242.

**DRAFTEC 302 ELECTRICAL AND HYDRAULIC DRAFTING (2-4-3)(F/S).** Industrial and manufacturing applications of circuit layout and symbols. PREREQ: DRAFTEC 101, DRAFTEC 109 and ELCTEC 100.

**DRAFTEC 310 3-DIMENSIONAL MODELING AND ANIMATION (2-3-3)(F/S).** Advanced 3-D drawing and rendering, presentation drawings, solid modeling, and animation. PREREQ: DRAFTEC 209.

**DRAFTEC 311 AutoLISP PROGRAMMING (2-1-2)(F/S).** An introduction to AutoLISP principles, creating and editing usable routines. PREREQ: DRAFTEC 209.

**DRAFTEC 350 PRODUCT DESIGN DEVELOPMENT (2-6-4)(F/S).** Application of design, materials, and manufacturing processes to product development. PREREQ: DRAFTEC 101, DRAFTEC 110, DRAFTEC 241, and DRAFTEC 242 or PERM/INST.

# Electrical Lineworker (9-Month Program)

*Instructor:* Cantrell.

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.

| Electrical Lineworker<br>Technical Certificate | |
|---|---|
| **Course Number and Title** | **Credits** |
| ELLINE 101 Electrical Lineworker Laboratory<br>ELLINE 102 Electrical Lineworker Laboratory<br>ELLINE 151 Electrical Lineworker Basics<br>ELLINE 152 Electrical Lineworker Basics<br>ELLINE 161 Electrical Lineworker Systems Design/Construction<br>ELLINE 162 Electrical Lineworker Systems Design Construction<br>ELLINE 262 Occupational Relations | 7<br>9<br>4<br>4<br>2<br>2<br>3 |
| TECSUP 111 Applied Communications<br>TECSUP 136 Technical Math IV | 3<br>3 |
| Total | 37 |

## Course Offerings

**See page 53 for a definition of the course-numbering system.**

**ELLINE — ELECTRICAL LINEWORKER**

**ELLINE 101 ELECTRICAL LINEWORKER LABORATORY (1-15-7)(F).** The field operation provides actual "job type" experience for the student. Course content includes live climbing experiences using ropes and rigging, pole setting and removal with suitable guys and anchors, including installation of transformers, construction and maintenance of underground distribution networks, troubleshooting all systems (including hot stick care and use), plus preventative maintenance on associate systems or equipment.

**ELLINE 102 ELECTRICAL LINEWORKER LABORATORY (1-18-9)(S).** This course provides advanced "job type" experience and includes live climbing experiences using ropes and rigging, pole setting and removal with suitable guys and anchors, including installation of transformers, construction and maintenance of underground distribution networks, troubleshooting all systems (including hot stick care and use), plus preventative maintenance on associate systems or equipment. Students will get experience either on site or with local employer.

**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.

**ELLINE 262 OCCUPATIONAL RELATIONS (3-1-3)(S).** Course is designed to enable a student to become skilled in dealing effectively with people and for applying, getting, maintaining and advancing in employment. One semester course.

# Electronics Technology (2-Year Program)

*Instructors:* Dodson, Douglas, Palagi, Sluder, Stack.

Leading to an advanced technical certificate or an associate of applied science degree, the Electronics Technology Program prepares students for employment as entry-level electronic technicians. These individuals 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.

**Electronics Technology Advanced Technical Certificate**

| Course Number and Title | Credits |
|---|---|
| CIS 104 Operating Systems and Word Processing Topics | 1 |
| CIS 105 Spreadsheet Topics | 1 |
| ELCTEC 101 DC Electronics Laboratory | 2 |
| ELCTEC 102 AC Electronics Laboratory | 2 |
| ELCTEC 106 Electronics Drafting | 1 |
| ELCTEC 151 DC Electronic Theory | 3 |
| ELCTEC 152 AC Electronic Theory | 2 |
| ELCTEC 162 Digital Systems I | 3 |
| ELCTEC 163 Digital Systems I Lab | 1 |
| ELCTEC 172 Solid State Devices | 3 |
| ELCTEC 173 Solid State Devices Lab | 3 |
| 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 Electronic Calculus | 3 |
| ELCTEC 241 Instrumentation | 3 |
| ELCTEC 242 Instrumentation Lab | 1 |
| ELCTEC 251 Linear Systems | 3 |
| ELCTEC 252 Telecommunications Systems | 3 |
| ELCTEC 264 Digital Systems II | 3 |
| ELCTEC 265 Digital Systems II Lab | 1 |
| ELCTEC 277 Microprocessor Systems | 2 |
| ELCTEC 278 Microprocessor Systems Lab | 1 |
| ELCTEC 279 Microprocessor Applications | 2 |
| ELCTEC 280 Microcompressor Applications Lab | 1 |
| MATH 108 Intermediate Algebra **AND** MATH 147 Precalculus **OR** TECSUP 139 Technical Math VI **AND** TECSUP 141 Technical Math VII | 6-9 |
| TECSUP 221 Technical Writing | 3 |
| Total | 58-61 |

**Electronics Technology Associate of Applied Science**

| Course Number and Title | Credits |
|---|---|
| Successful completion of technical courses | 52 |
| ENGL 101 **and** ENGL 102 **or** COMM 101 | 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<br>Please refer to the A.A.S. requirements in Chapter 11 for explanation. | 3-4 |
| Total | 68 |
| The associate of applied science (A.A.S.) degree articulates with BSU's bachelor of applied science (B.A.S.) degree. | |

# Course Offerings

**See page 53 for a definition of the course-numbering system.**

**ELCTEC — ELECTRONIC TECHNOLOGY**

**ELCTEC 100 INTRODUCTORY ELECTRONICS AND LABORATORY (4-1-5)(F/S).** Overview electronics course covering basic electricity and DC/AC principles, digital electronics, and transistor device theory. Introductory course for nonelectronics majors or preparatory course for potential electronics technology majors prior to entering program. Laboratory work to complement ELCTEC 100. Directed study labs utilizing computer simulation of experiments. PREREQ: MATH 108 or TECSUP 139 or PERM/INST.

**ELCTEC 101 DC ELECTRONICS LABORATORY (0-4-2)(F/S).** Experiments in direct current electronics. Study of resistance, DC circuit behavior, DC applications of capacitors and inductors, characteristics and use of DC test equipment. COREQ: ELCTEC 151.

**ELCTEC 102 AC ELECTRONICS LABORATORY (0-4-2)(F/S).** Experiments in alternating current electronics. Study of reactance, impedance, transformer devices, and AC circuit behavior. Characteristics and use of AC test equipment. PREREQ: ELCTEC 101. COREQ: ELCTEC 152.

**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 106 ELECTRONICS DRAFTING (0-2-1)(F/S).** Application of electronic schematic drafting software with particular attention to interpretation and drafting schematics through hands-on activities. Five-week course.

**ELCTEC 115 INTRODUCTION TO DC ELECTRONICS (2-3-3)(F/S).** Theory of direct current electricity offered in electron flow format for electronics technology nonmajors. The student will study DC series, parallel, and series-parallel circuits (consisting of capacitors, resistors, and inductors), resistance, power, voltage and current laws, and troubleshooting. (Taught in eight-week block). PREREQ or COREQ: TECSUP 139 or MATH 108.

**ELCTEC 116 INTRODUCTION TO AC ELECTRONICS (2-3-3)(F/S).** Theory of AC circuits for electronics technology nonmajors. A focus on the theory and general application of AC electronics. Use of passive devices in series, parallel, and series-parallel. Calculation of instantaneous voltage, current, power, and power factors in RC, RL, and RCL circuits. Establishes a foundation of RF theory. (Taught in eight-week block). PREREQ or COREQ: ELCTEC 115.

**ELCTEC 117 SOLID STATE AND LINEAR DEVICES (3-9-6)(F/S).** A comprehensive study and practical application of electron control devices including semiconductors, power supplies, transistor amplifiers, oscillators, operational amplifiers and test equipment. For non-Electronics Technology majors. PREREQ: ELCTEC 116.

**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. PREREQ or COREQ: MATH 108 or TECSUP 139.

**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. PREREQ or COREQ: MATH 147 or TECSUP 141.

**ELCTEC 162 DIGITAL SYSTEMS I (3-0-3)(F/S).** Introductory digital concepts, the binary and hexadecimal number systems, Boolean functions and operations, basic logic gates, and combinational logic.

**ELCTEC 163 DIGITAL SYSTEMS I LAB (0-3-1)(F/S).** Laboratory exercises in combinational logic to complement ELCTEC 162. See ELCTEC 162 course description. 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 or COREQ: ELCTEC 152, and MATH 147 or TECSUP 141.

**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. Successful completion will include passing 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 215 INTRODUCTION TO DIGITAL ELECTRONICS (2-3-3)(F/S).** An introductory overview of digital circuitry for electronics technology nonmajors. The basics of combinational logic gates, their truth tables, and sequential logic circuits. Circuitry for math operations, counters, shift registers, and memory circuits. PREREQ: ELCTEC 116.

**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. PREREQ or COREQ: ELCTEC 225.

**ELCTEC 231 ELECTRONIC CALCULUS (3-0-3)(F/S).** Differentiation and integration with electronic system applications. Use of electronic differentiation and integration in electronic control. PREREQ: MATH 108 or TECSUP 141.

**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 or PERM/INST.

**ELCTEC 242 INSTRUMENTATION LAB (0-3-1)(F/S).** Laboratory exercises with various sensors, electro-mechanical 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 light-wave communications. Amplitude modulation, frequency modulation, pulse modulation, and video systems. PREREQ: ELCTEC 172 or PERM/INST.

**ELCTEC 264 DIGITAL SYSTEMS II (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 DIGITAL SYSTEMS II LAB (0-3-1)(F/S).** Laboratory to complement ELCTEC 264. COREQ: ELCTEC 264.

**ELCTEC 277 MICROPROCESSOR SYSTEMS (2-0-2)(F/S).** Microprocessor/microcontroller functions, operations and interfacing. Architecture, instruction sets, input and output, and programming. Eight-week course. PREREQ: ELCTEC 264 or PERM/INST.

**ELCTEC 278 MICROPROCESSOR SYSTEMS LAB (0-3-1)(F/S).** Laboratory to complement ELCTEC 277. Eight-week course. COREQ: ELCTEC 277.

**ELCTEC 279 MICROPROCESSOR APPLICATIONS (2-0-2)(F/S).** Microprocessor/microcontroller applications dealing with interfacing microprocessors and microcontrollers to external devices. Includes sampling data acquisition and transmission, and programming interfaces. Eight-week course. PREREQ: ELCTEC 277 or PERM/INST.

**ELCTEC 280 MICROPROCESSOR APPLICATIONS LAB (0-3-1)(F/S).** Laboratory course to complement ELCTEC 279. Eight-week course. COREQ: ELCTEC 279.

**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 demand warrants.

**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 (2-Year Program)

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.

**Environmental Control Technician Advanced Technical Certificate**

| Course Number and Title | Credits |
|---|---|
| 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 | 5 |
| IMTEC 135 Industrial Technology Laboratory | 6 |
| REFHTEC 121 HVAC/R Laboratory | 5 |
| REFHTEC 122 HVAC/R Laboratory | 6 |
| REFHTEC 141 HVAC/R Theory | 6 |
| REFHTEC 142 HVAC/R Theory | 7 |
| TECSUP 111 Applied Communications | 3 |
| TECSUP 136 Technical Math IV | 3 |
| TECSUP 181 Occupational Relations | 3 |
| Total | 62 |

**Environmental Control Technician Associate of Applied Science**

| Course Number and Title | Credits |
|---|---|
| Successful completion of technical courses | 53 |
| ENGL 101 **and** ENGL 102 **or** COMM 101 | 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<br>Please refer to the A.A.S. requirements in Chapter 11 for explanation. | 3-4 |
| Total | 69 |

The associate of applied science (A.A.S.) degree articulates with BSU's bachelor of applied science (B.A.S.) degree.

# Farm Business Management (3-Year Program)

*Instructor:* Wells.

Leading to a post-secondary 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 operations records system. IBM compatible computers are provided by the university for in-class use. Special fees apply to this program.

**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 53 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

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.

Special fees apply to this program. Students interested in this program should contact the Gary Arambarri, Technical Services Building, Room 111, 208 426-3969.

**Fire Service Technology**
**Associate of Applied Science**

| Course Number and Title | | Credits |
|---|---|---|
| **Technical Course Work** | | 56 |
| Orientation | 120 | |
| Ladder | 30 | |
| Hose | 60 | |
| Fire Streams | 60 | |
| Forcible Entry | 30 | |
| Ventilation | 30 | |
| Self-Contained Breathing Apparatus | 90 | |
| Salvage and Overhaul | 30 | |
| First Aid | 90 | |
| Safety 90 | | |
| Water Supplies | 60 | |
| Building Construction | 60 | |
| Fire Prevention | 90 | |
| Hazardous Materials | 60 | |
| Rescue | 60 | |
| Fire Cause Determination | 60 | |
| Fire Ground Management | 60 | |
| Practicum/Work Experience | 300 | |
| **Technical Support Course Work** | | |
| Fundamentals of Fire Mathematics | 60 | |
| Fundamentals of Fire Physics | 120 | |
| Fundamentals of Fire Chemistry | 120 | |
| ENGL 101 **and** ENGL 102 **or** COMM 101 | | 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<br>Please refer to the A.A.S. requirements in Chapter 11 for explanation. | | 3-4 |
| Total | | 72 |

The associate of applied science (A.A.S.) degree articulates with BSU's bachelor of applied science (B.A.S.) degree.

## Course Offerings

**See page 53 for a definition of the course-numbering system.**

**FIRESV — FIRE SERVICE TECHNOLOGY**

**FIRESV 100 FIRE TRAINING TECHNOLOGY (V-V-56).** 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.

# Heavy Duty Mechanics—Diesel (9-Month or 2-Year Program)

*Instructors:* Doughty, Gaines, Hall, Martinez.

The Heavy Duty Mechanics—Diesel program covers diagnosis, service, and repair of heavy-duty trucks and equipment. Students are offered entry into the program at the beginning of the fall and spring semesters, depending on available seating as determined by the instructor.

The Heavy Duty Mechanics-Diesel Program is a two-part program. The first-year program covers general principles and specific product information. Laboratory work emphasizes a hands-on orientation with extensive training on functional vehicles and equipment. In all cases, courses are oriented toward high levels of technical understanding to provide the skills needed for employment. In addition to specific technical training, supporting courses enable students to develop interpersonal skills needed to advance within the Heavy Duty Mechanics-Diesel service industry.

The second year Advanced Technical Certificate program will include additional advanced technical theory in the classroom, and offers laboratory work in an agreement with local dealerships, independent garages, and specialty shops. In addition to the Advanced Technical Certificate students may choose to continue their education by completing the University Core requirements for the Associate of Applied Science degree.

### Heavy Duty Mechanics—Diesel Technical Certificate

| Course Number and Title | Credits |
|---|---|
| CORBLK 101 Introduction to Mechanics | 1 |
| CORBLK 105 Introduction to Engines | 1 |
| CORBLK 109 Basic Electricity and Electronics | 1 |
| CORBLK 113 Chassis and Exhaust Systems | 1 |
| CORBLK 117 Vehicle and Equipment Maintenance | 1 |
| CORBLK 121 Basic Welding and Metal Work | 1 |
| CORBLK 129 Introduction to Microcomputers | 1 |
| DIESEL 130 Two and Four Wheel Alignment | 1 |
| DIESEL 132 Engine Performance | 3 |
| DIESEL 134 Suspension and Steering Controls | 2 |
| DIESEL 136 Brake Systems | 2 |
| DIESEL 138 Advanced Engine Diagnostics | 2 |
| DIESEL 140 Electrical Systems | 3 |
| DIESEL 142 Engine Repair | 3 |
| DIESEL 144 Manual Transmission and Drivetrain | 3 |
| DIESEL 146 Heating and Air Conditioning | 2 |
| TECSUP 130 Mechanical Math | 1 |
| TECSUP 181 Occupational Relations | 3 |
| Total | 32 |

See "Core Block Courses" and "Technical Support Courses" for course descriptions.

### Heavy Duty Mechanics—Diesel Advanced Technical Certificate

| Course Number and Title | Credits |
|---|---|
| Successful completion of Technical Certificate | 32 |
| DIESEL 250 Engine Fuel Systems | 3 |
| DIESEL 251 Differential, Power Dividers, Final Drive and Planetary Systems | 2 |
| DIESEL 252 Basic Hydraulics | 2 |
| DIESEL 253 Air Brake Systems | 3 |
| DIESEL 254 Engine Brakes | 1 |
| DIESEL 256 Advanced Engine Repair | 3 |
| DIESEL 257 Advanced Engine Performance | 3 |
| DIESEL 258 Advanced Transmissions | 3 |
| DIESEL 259 Advanced Alignment and Brake Systems | 3 |
| DIESEL 260 Advanced Electrical Systems | 3 |

*— continued —*

### *Heavy Duty Mechanics—Diesel, A.T.C. (continued)*

| | |
|---|---|
| TECSUP 111 Applied Communications | 3 |
| Total | 61 |

See "Core Block Courses" and "Technical Support Courses" for course descriptions.

### Heavy Duty Mechanics—Diesel Associate of Applied Science

| Course Number and Title | Credits |
|---|---|
| Successful completion of Heavy Duty Mechanics and Core Block courses | 55 |
| ENGL 101 **and** ENGL 102 **or** COMM 101 | 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<br>Please refer to the A.A.S. requirements in Chapter 11 for explanation. | 3-4 |
| Total | 71 |

The associate of applied science (A.A.S.) degree articulates with BSU's bachelor of applied science (B.A.S.) degree.

## Course Offerings

**See page 53 for a definition of the course-numbering system.**

**DIESEL — HEAVY DUTY MECHANICS-DIESEL**

**DIESEL 130 TWO AND FOUR WHEEL ALIGNMENT (1-1-1)(F/S).** Theory and practice of two and four wheel alignment, wear identification, and front-end rebuilding. Laboratory experiences are diesel related. PREREQ: Core block.

**DIESEL 132 ENGINE PERFORMANCE (1-5-3)(F/S).** Design and repair of conventional and electronic ignition systems, fuel delivery systems, carburetor, fuel injection, computer-controlled ignition, and fuel systems. Emphasis on use of scopes and testing equipment. Laboratory experiences are diesel related. PREREQ: Core block.

**DIESEL 134 SUSPENSION AND STEERING CONTROLS (1-3-2)(F/S).** Theory and operation of suspension and steering systems, including linkage, rack and pinion, steering gears, torsion bar, leaf and coil springs, struts and control arms. Laboratory experiences are diesel related. PREREQ: Core block.

**DIESEL 136 BRAKE SYSTEMS (1-3-2)(F/S).** Theory and practice of automotive brake systems inspection. Maintenance and repair, including shoe and pad replacement, drum and rotor machining, and rebuilding of wheel, caliper and master cylinder, and power brake units. Laboratory experience are diesel related. PREREQ: Core block.

**DIESEL 138 ADVANCED ENGINE DIAGNOSTICS (1-3-2)(F/S).** Theory and operation of advanced diagnostic equipment to troubleshoot and repair performance problems, with emphasis on electrically-related problems. Laboratory experiences are diesel related. PREREQ: Core block.

**DIESEL 140 ELECTRICAL SYSTEMS (1-5-3)(F/S).** Identification and use of basic automotive electronic test equipment, basic automotive electronic theory, testing, and troubleshooting, and rebuilding of starter motors, charging systems, and electronic ignition systems. Theory and testing of computer command control systems. Laboratory experiences are diesel related. PREREQ: Core block.

**DIESEL 142 ENGINE REPAIR (1-5-3)(F/S).** Engine design, engine disassembly, parts evaluation, parts repair and replacement with proper disassembly techniques, parts evaluation, and proper assembly. Laboratory experiences are diesel related. PREREQ: Core block.

**DIESEL 144 MANUAL TRANSMISSION AND DRIVETRAIN (1-5-3)(F/S)..** Transmission and drivetrain design, proper disassembly techniques, parts evaluation, and proper assembly. Laboratory experiences are diesel related. PREREQ: Core block.

**DIESEL 146 HEATING AND AIR CONDITIONING (1-3-2)(F/S).** Principles and design of heating and air conditioning systems, including troubleshooting, recovery, recycle and repair procedures. Laboratory experiences are diesel related. PREREQ: Core block.

**DIESEL 250 ENGINE FUEL SYSTEMS (1-4-3)(F/S).** Theory and principles of the major types of diesel fuel injection pumps, injection nozzle testing procedures, gasoline fuel systems, carburetors, fuel filters, fuel lines and fuel transfer pumps.

**DIESEL 251 DIFFERENTIAL, POWER DIVIDERS, FINAL DRIVE, AND PLANETARY SYSTEMS (1-3-2)(F/S).** Disassembly and assembly of differentials, power dividers, theory of final drive systems, and planetary systems in heavy duty equipment.

**DIESEL 252 BASIC HYDRAULICS (1-3-2)(F/S).** Hydraullic theory and practices of hydraulic systems, lines, fittings, accumulators, oil coolers, circuits, valves, pumps, and motors.

**DIESEL 253 AIR BRAKE SYSTEMS (1-4-3).** Air compressors, air brakes, parking brakes, air cans, spring brake cans, slack adjustors, brake shoes, air tanks, and air piping.

**DIESEL 254 ENGINE BRAKES (1-1-1).** Jacobs and Cummins compression brake components and operation, retarders, construction and operation. PREREQ: Core block.

**DIESEL 256 ADVANCED ENGINE REPAIR (1-5-3).** Advanced engine repair principles and concepts in diagnosis, disassembly, inspection, repair, and assembly.

**DIESEL 257 ADVANCED ENGINE PERFORMANCE (1-5-3).** Advanced principles and concepts in diagnosis of problems and adjustment of vehicle computer control systems.

**DIESEL 258 ADVANCED TRANSMISSIONS (1-5-3).** Advanced transmission principles and concepts in diagnosis, disassembly, inspection, repair, and assembly of automatic and manual transmissions.

**DIESEL 259 ADVANCED ALIGNMENT/BRAKE SYSTEMS (1-5-3)(F/S).** Advanced wheel alignment and brake system principles and concepts in the diagnosis and repair problems of two and four wheel drive vehicles utilizing computerized equipment.

**DIESEL 260 ADVANCED ELECTRICAL SYSTEMS (1-5-3)(F/S).** Advanced electrical systems principles and concepts in the diagnosis and repair of electrical problems utilizing computerized testing equipment.

# Horticulture Technology (9-Month or 2-Year Program)

*Instructors:* Blackburn, Moen.

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

**Horticulture Technology**
**Horticulture Assistant**
**Technical Certificate**

| Course Number and Title | Credits |
|---|---|
| HORTEC 105 Floral Design I | 2 |
| HORTEC 106 Plant Materials I | 3 |
| HORTEC 107 Landscape Maintenance and Pruning | 2 |
| HORTEC 108 Plant Production and Management I | 3 |
| HORTEC 110 Horticulture Botany | 3 |
| HORTEC 135 Plant Materials II | 2 |
| HORTEC 136 Plant Production and Management II | 3 |
| HORTEC 140 Soil and Plant Nutrition | 3 |
| HORTEC 143 Horticulture Internship Seminar | 1 |
| HORTEC 145 Horticulture Communications | 2 |
| HORTEC 293 Horticulture Internship | 4 |
| TECSUP 111 Applied Communications | 3 |
| TECSUP 136 Technical Math IV | 3 |
| TECSUP 181 Occupational Relations | 3 |
| Total | 37 |

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 technical courses | 37 |
| BUSTEC 161 Intro to Microcomputers | 3 |

*— continued —*

***Horticulturist, A.T.C. (continued)***

| | |
|---|---|
| HORTEC 203 Plant Materials III | 3 |
| HORTEC 204 Landscape Management I | 3 |
| HORTEC 205 Weed Science | 2 |
| HORTEC 207 Turfgrass Management | 3 |
| HORTEC 253 Plant Materials IV | 3 |
| HORTEC 254 Landscape Management II | 3 |
| HORTEC 255 Insect and Disease Science | 2 |
| HORTEC 256 Landscape Design Principles | 3 |
| HORTEC 257 Horticulture Business Management | 2 |
| HORTEC 271 Individual Horticulture Project | 3 |
| TECSUP 137 Technical Math V | 1 |
| Total | 68 |

**Horticulture Technology**
**Horticulturist**
**Associate of Applied Science**

| Course Number and Title | Credits |
|---|---|
| Successful completion of horticulture technical courses, except HORTEC 145 | 53 |
| ENGL 101 **and** ENGL 102 **or** COMM 101 | 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<br>Please refer to the A.A.S. requirements in Chapter 11 for explanation. | 3-4 |
| Total | 69 |

The associate of applied science (A.A.S.) degree articulates with BSU's bachelor of applied science (B.A.S.) degree.

# Course Offerings

**See page 53 for a definition of the course-numbering system.**

**HORTEC — HORTICULTURE TECHNOLOGY**

**HORTEC 105 FLORAL DESIGN I (1-2-2)(F).** Basic floral design concepts and practical lab experience in constructing floral designs. PREREQ: PERM/INST.

**HORTEC 106 PLANT MATERIALS I (1-4-3)(F/S).** Identification, cultural requirements, and landscape use of annuals, perennials, vines, and ornamental grasses.

**HORTEC 107 LANDSCAPE MAINTENANCE AND PRUNING (1-2-2)(F).** Cultivation and care of specific landscape crops, including practical experience in maintenance and pruning of exterior and interior plant materials. Lawns, roses, fruits, vegetables, herbs, ornamentals and exotic plants. PREREQ: PERM/INST.

**HORTEC 108 PLANT PRODUCTION AND MANAGEMENT (1-4-3)(F).** Develop and understanding of plants utilized in the horticulture industry by propagating, growing and analyzing factors affecting growth of plans and costs involved to raise crops. Provides Greenhouse and nursery experience. PREREQ: PERM/INST.

**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 PLANT MATERIALS II (1-2-2)(F/S).** Identification, cultural requirements, and landscape use of floral, foliage, and greenhouse crops.

**HORTEC 136 PLANT PRODUCTION AND MANAGEMENT (1-4-3)(F/S).** Selecting, managing, and growing specific crops for consumption and sales. Business and propagation records, job projects, bids and continued study of ornamental culture and maintenance.

**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)(S).** Weekly seminar designed to survey and discuss work experience situations. Group discussion of interpersonal dynamics on the job. Time cards, business communications and record keeping emphasized. COREQ: HORTEC 144 and PERM/INST.

**HORTEC 145 HORTICULTURE COMMUNICATION (2-1-2)(S).** Horticulture research and oral topic presentation. Required reading and written summaries of current horticulture journals and articles.

**HORTEC 203 PLANT MATERIALS III (0-6-3)(F/S).** The identification, cultural requirements, and landscape use of deciduous and evergreen trees.

**HORTEC 204 LANDSCAPE MANAGEMENT I (0-6-3)(F/S).** Installation and maintenance of landscapes using large and small engine equipment and hand tools.

**HORTEC 205 WEED SCIENCE (1-2-2)(F).** The principles and practices of weed identification with field and computer experiences. The cultural, biological and chemical controls will be explored with emphasis on landscape and nursery growing environments. PREREQ: PERM/INST.

**HORTEC 207 TURFGRASS MANAGEMENT (2-2-3)(F).** A study of grass anatomy, turfgrass selection, environmental conditions and cultural operations necessary for installation and maintenance of turf. COREQ: HORTEC 205 or PERM/INST.

**HORTEC 253 PLANT MATERIALS IV (0-6-3)(F/S).** The identification, cultural requirements, and landscape use of evergreen and deciduous shrubs.

**HORTEC 254 LANDSCAPE MANAGEMENT II (0-6-3)(F/S).** A continuation of HORTEC 204 with hands-on opportunities for installing and maintaining complete landscapes. Focusing on woody plants, hardscapes, color, sprinkler systems, and turf.

**HORTEC 255 INSECT AND DISEASE SCIENCE (1-2-2)(S).** A practical study of identification, life cycles and host symptoms diagnosis; explore cultural, biological, and chemical controls for landscape plants and nursery growing environments. PREREQ: PERM/INST.

**HORTEC 256 LANDSCAPE DESIGN PRINCIPLES (1-4-3)(S).** An exploration of the culture and history of landscape architecture and its impact on modern landscape architecture. Applying the principles and elements of design for the development of functional, aesthetically pleasing outdoor environments. PREREQ: PERM/INST.

**HORTEC 257 HORTICULTURE BUSINESS MANAGEMENT (2-0-2)(S).** Study of the elements of small business. Examine sales, salesmanship, marketing; explore overhead costs of doing business and develop strategies for cost analysis, estimating and bidding for profit. PREREQ: PERM/INST.

**HORTEC 271 INDIVIDUAL HORTICULTURAL PROJECTS (1-4-3)(S).** Providing the opportunity for the student to apply all his/her prior education in planning, designing, and completing a portion of a unique, practical approved horticulture project. PREREQ: HORTEC majors and PERM/INST.

**HORTEC 293 INTERNSHIP (0-20-4)(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 guideline of university faculty. COREQ: HORTEC 143.

# Idaho Professional Driver Training Program (15-Week Program)

*Instructors:* Dean, Harris, Jaquith, Morrison, Reeves, Urlezaga.

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, 40 hours per week, 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.

**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 53 for a definition of the course-numbering system.**

**IPDT — IDAHO PROFESSIONAL DRIVER TRAINING**

**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 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 Maintenance Technology (9-Month Program)

*Instructor:* Allen.

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.

**Industrial Maintenance Technology Technical Certificate**

| Course Number and Title | Credits |
|---|---|
| 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 | 5 |
| IMTEC 135 Industrial Technology Laboratory | 6 |
| TECSUP 111 Applied Communications | 3 |
| TECSUP 130 Mechanical Math | 1 |
| TECSUP 181 Occupational Relations | 3 |
| Total | 36 |

## Course Offerings

**See page 53 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 (1-8-5)(F).** Subjects emphasized are reflective of classroom or lecture topics and include metal joining, hydraulics, electric motors and controls, and preventive maintenance. Systems are enhanced by computer assistance where applicable.

**IMTEC 135 INDUSTRIAL TECHNOLOGY LABORATORY (1-10-6)(S).** Subjects emphasized are reflective of classroom or lecture topics and include machine tool use for maintenance, use of compressed air or pneumatics, property of materials, and electric motors and controls. Systems are enhanced by computer assistance where applicable.

# Machine Tool Technology (9-Month or 2-Year Program)

*Instructor:* Sperry, Starkey.

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.

**Machine Tool Technology Technical Certificate**

| Course Number and Title | Credits |
|---|---|
| MACHTEC 103 Machine Shop Laboratory | 6 |
| MACHTEC 104 Machine Shop Laboratory | 6 |
| MACHTEC 126 Related Blueprint Reading | 2 |
| MACHTEC 127 Related Blueprint Reading | 2 |
| MACHTEC 153 Machine Shop Theory | 3 |
| MACHTEC 154 Machine Shop Theory | 3 |
| *TECSUP 111 Applied Communications **OR** COMM 101, COMM 112, or ENGL 101* | 3 |
| TECSUP 136 Technical Math IV | 3 |
| TECSUP 143 Technical Math VIII | 3 |
| *TECSUP 181 Occupational Relations or course from academic core* | 3 |
| *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 11 for explanation. | |
| Total | 34 |

**Machine Tool Technology Advanced Technical Certificate**

| Course Number and Title | Credits |
|---|---|
| Successful completion of technical certificate | 34 |
| MACHTEC 203 Advanced Machine Shop Laboratory | 6 |
| MACHTEC 204 Advanced Machine Shop Laboratory | 6 |

*continued —*

***Machine Tool Technology, A.T.C. (continued)***

| | |
|---|---|
| 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 | 60 |

**Machine Tool Technology Associate of Applied Science**

| Course Number and Title | Credits |
|---|---|
| Successful completion of technical courses | 54 |
| ENGL 101 **and** ENGL 102 **or** COMM 101 | 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<br>Please refer to the A.A.S. requirements in Chapter 11 for explanation. | 3-4 |
| Total | 70 |
| The associate of applied science (A.A.S.) degree articulates with BSU's bachelor of applied science (B.A.S.) degree. | |

# Course Offerings

**See page 53 for a definition of the course-numbering system.**

**MACHTEC — MACHINE TOOL TECHNOLOGY**

**MACHTEC 103 MACHINE SHOP LABORATORY (1-12-6)(F).** Basic safety, shop practice, work habits, and production rates. Also, the set-up and operation of inspection and layout tools, engine lathe, vertical milling machine, horizontal milling machine and power saws. COREQ: MACHTEC 153.

**MACHTEC 104 MACHINE SHOP LABORATORY (1-12-6)(S).** Advanced safety, shop practice, work habits, and production rates. Also, the set-up and operation of drill press, jig bore, surface grinders, and computer numerical control milling machine. PREREQ: MACHTEC 103. COREQ: MACHTEC 153.

**MACHTEC 126 RELATED BLUEPRINT READING (2-1-2)(F).** Basic principles and techniques of reading orthographic projection drawings and technical sketching as applied to machine shop practice.

**MACHTEC 127 RELATED BLUEPRINT READING (2-1-2)(S).** Advanced principles to understand the reading of more complicated machine shop detail and assembly drawings with emphasis on machining specifications and materials. PREREQ: MACHTEC 126.

**MACHTEC 153 MACHINE SHOP THEORY (3-1-3)(F).** Machining processes and their application as practiced in the laboratory course. Safety and sound work habits are emphasized in all phases of instruction. Includes the set-up, care and maintenance of inspection and layout tools, engine lathe, vertical milling machine, horizontal milling machine, and power saws. COREQ: MACHTEC 103.

**MACHTEC 154 MACHINE SHOP THEORY (3-1-3)(S).** Machining processes and their application as practiced in the laboratory course. Safety and sound work habits are emphasized in all phases of instruction. Includes the set-up, care and maintenance of drill presses, jig bore, surface grinders, and basic computer numerical grinders, and basic computer numerical control milling machine. PREREQ: MACHTEC 153. COREQ: MACHTEC 104.

**MACHTEC 203 ADVANCED MACHINE SHOP LABORATORY (1-12-6)(F).** Set-up and operation involving manipulative development and advanced skill in the use of engine lathes, vertical milling machines, drill presses, power saws, surface grinders, advanced computer numerical control milling machines, and basic computer numerical control lathe. PREREQ: MACHTEC 104.

**MACHTEC 204 ADVANCED MACHINE SHOP LABORATORY (1-12-6)(S).** Set-up and operation involving manipulative development and advanced skills in the use of inspection and layout tools, engine lathe, vertical milling machine, advanced computer numerical control lathe, operation and programming. PREREQ: MACHTEC 203.

**MACHTEC 211 FUNDAMENTALS OF COMPUTER-AIDED DRAFTING AND DESIGN (2-1-2)(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 learn to use an interactive computer graphics system to prepare drawings on CRT.

**MACHTEC 212 (MFGTEC 212) COMPUTER AIDED MANUFACTURING (2-3-3)(S).** Writing computer numerical control (CNC) machine tool programs using computer-assisted techniques to generate machine firm-ware, set up and operation, development of tooling concepts, preset cutting tooling, 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. This course may be taken for either MFGTEC or MACHTEC credit, but not both. PREREQ: MACHTEC 253 or MFGTEC 180.

**MACHTEC 224 TOOL DESIGN FOR MANUFACTURING (2-1-2)(S).** Introduction to tool design for the machinist. It will prepare the student to understand design of fixtures, jigs and tools used in the machining trade. PREREQ: MACHTEC 223.

**MACHTEC 225 GEOMETRIC DIMENSIONING AND TOLERANCING (3-1-3)(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 (2-1-2)(F).** Advanced programming of computer numerical control milling machine and basic programming of computer numerical controlled lathe. PREREQ: MACHTEC 154.

**MACHTEC 254 ADVANCED MACHINE SHOP THEORY (2-1-2)(S).** Advanced programming of computer numerical control lathe and building of fixtures and jigs.

# Marketing/Management Technology (2-Year Program)

*Instructors:* Haislip, Waldorf.

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, knowledge, attitudes, 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.

**Marketing/Management Technology Technical Certificate**

| Course Number and Title | Credits |
|---|---|
| BUSTEC 118 Career Development | 3 |
| BUSTEC 133 Business English | 3 |
| BUSTEC 161 Introduction to Microcomputers | 3 |
| COMM 101 Fundamentals of Speech Communication | 3 |
| MRKTEC 104 Leadership Development | 1 |
| MRKTEC 121 Business Concepts | 3 |
| MRKTEC 125 Introduction to Marketing | 3 |
| MRKTEC 167 Microcomputer Applications for Business | 3 |
| MRKTEC 240 Principles of Selling | 3 |
| MRKTEC 257 Principles of Management | 3 |
| TECSUP 138 Applied Business Math | 3 |
| Total | 31 |

**Marketing/Management Technology Advanced Technical Certificate**

| Course Number and Title | Credits |
|---|---|
| Successful completion of technical certificate | 31 |
| BUSTEC 151 Applied Accounting I | 3 |
| BUSTEC 231 Applied Business Communication | 3 |
| BUSTEC 267 Desktop Publishing | 3 |
| MRKTEC 203 Principles of Promotion | 3 |
| MRKTEC 212 Integrated Marketing Communications | 3 |
| MRKTEC 243 Marketing Applications | 3 |
| MRKTEC 262 Small Business Management | 3 |
| MRKTEC 293 Marketing/Management Internship | 3 |
| Total | 55 |

**Marketing/Management Technology Associate of Applied Science**

| Course Number and Title | Credits |
|---|---|
| BUSTEC 118 Career Development | 3 |
| BUSTEC 151 Applied Accounting I | 3 |
| BUSTEC 161 Introduction to Microcomputers | 3 |
| BUSTEC 231 Applied Business Communication | 3 |
| BUSTEC 267 Desktop Publishing | 3 |
| MRKTEC 104 Leadership Development | 1 |
| MRKTEC 121 Business Concepts | 3 |
| MRKTEC 125 Introduction to Marketing | 3 |
| MRKTEC 167 Microcomputer Applications for Business | 3 |
| MRKTEC 203 Principles of Promotion | 3 |
| MRKTEC 212 Integrated Marketing Communications | 3 |
| MRKTEC 240 Principles of Selling | 3 |
| MRKTEC 243 Marketing Applications | 3 |
| MRKTEC 257 Principles of Management | 3 |
| MRKTEC 262 Small Business Management | 3 |
| MRKTEC 293 Marketing/Management Internship | 3 |
| ENGL 101 **and** ENGL 102 **or** COMM 101 | 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<br>Please refer to the A.A.S. requirements in Chapter 11 for explanation. | 3-4 |
| Total | 62 |
| The associate of applied science (A.A.S.) degree articulates with BSU's bachelor of applied science (B.A.S.) degree. | |

# Course Offerings

**See page 53 for a definition of the course-numbering system.**

**MRKTEC — MARKETING/MANAGEMENT TECHNOLOGY**

**MRKTEC 101 SALESMANSHIP (3-0-3)(F/S).** A basic course in personal selling techniques as applied in working situations in modern retail, wholesale, and manufacturing establishments; analysis of customer behavior and motivation; methods of creating customer attention, interest, desire, and action. Special emphasis is given to ethical sales techniques.

**MRKTEC 104 LEADERSHIP DEVELOPMENT (1-1-1)(F/S).** Emphasis on leadership skills, parlimentary procedures, interpersonal communication, and occupational skill enhancement. Competence developed through business-oriented community and campus projects and state and national leadership conferences and competition.

**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 (1-4-3)(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 201 ELEMENTS OF MARKETING (3-2-3)(F).** The study of activities by which goods and services flow from producer to ultimate consumer. Includes methods, policies and evaluation of the various marketing institutions according to the function performed.

**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 204 RETAILING MANAGEMENT (3-2-3)(F/S).** A study of fundamental principles and practices of managing a retail business. Covers the full range of decisions made by retailers from developing a retail strategy to managing a store and its employees. Includes merchandise planning and control, expense and cost-reduction, purchasing for resale, pricing of goods, and retail control systems. PREREQ: TECSUP 138.

**MRKTEC 209 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.

**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 250 MICROCOMPUTER APPLICATIONS FOR BUSINESS (1-5-3)(F/S).** Develops skill in utilizing microcomputer applications for business problem-solving, decision-making, and information management. Includes word processing, spreadsheet and database applications and introduction to graphical operating environment. PREREQ: BUSTEC 161.

**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.

# Mechanical Welding Technician (2-Year Program)

This double major option combines the Welding and Metals Fabrication and Heavy Duty Mechanics — Diesel curricula.

### Mechanical Welding Technician Advanced Technical Certificate

| Course Number and Title | Credits |
|---|---|
| CORBLK 101 Introduction to Mechanics | 1 |
| CORBLK 105 Introduction to Engines | 1 |
| CORBLK 109 Basic Electricity and Electronics | 1 |
| CORBLK 113 Chassis and Exhaust Systems | 1 |
| CORBLK 117 Vehicle and Equipment Maintenance | 1 |
| CORBLK 121 Basic Welding and Metal Work | 1 |
| CORBLK 129 Introduction to Microcomputers **OR** WELD 157 Introduction to Microcomputers | 1 |
| DIESEL 130 Two and Four Wheel Alignment | 1 |
| DIESEL 132 Engine Performance | 3 |
| DIESEL 134 Suspension and Steering Controls | 2 |
| DIESEL 136 Brake Systems | 2 |
| DIESEL 138 Advanced Engine Diagnostics | 2 |
| DIESEL 140 Electrical Systems | 3 |
| DIESEL 142 Engine Repair | 3 |
| DIESEL 144 Manual Transmission and Drivetrain | 3 |
| DIESEL 146 Heating and Air Conditioning | 2 |
| DIESEL 250 Engine Fuel Systems | 3 |
| DIESEL 251 Differential, Power Dividers, Final Drive and Planetary Systems | 2 |

*— continued —*

*Mechanical Welding Technician, A.T.C. (continued)*

| | |
|---|---|
| DIESEL 252 Basic Hydraulics | 2 |
| DIESEL 253 Air Brake Systems | 3 |
| DIESEL 254 Engine Brakes | 1 |
| DIESEL 256 Advanced Engine Repair | 3 |
| DIESEL 257 Advanced Engine Performance | 3 |
| DIESEL 258 Advanced Transmissions | 3 |
| DIESEL 259 Advanced Alignment and Brake Systems | 3 |
| DIESEL 260 Advanced Electrical Systems | 3 |
| TECSUP 111 Applied Communications | 3 |
| TECSUP 130 Mechanical Math | 1 |
| TECSUP 181 Occupational Relations | 3 |
| WELD 106 Welding Lab | 8 |
| WELD 107 Welding Lab | 8 |
| WELD 108 Welding Lecture/Lab | 7 |
| WELD 125 Blueprint Reading and Layout | 3 |
| WELD 126 Blueprint Reading and Layout | 7 |
| WELD 155 Welding Theory | 4 |
| WELD 156 Welding Theory | 1 |
| Total | 99 |

### Mechanical Welding Technician Associate of Applied Science

| Course Number and Title | Credits |
|---|---|
| Successful completion of advanced technical certificate | 89 |
| ENGL 101 **and** ENGL 102 **or** COMM 101 | 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<br>Please refer to the A.A.S. requirements in Chapter 11 for explanation. | 3-4 |
| Total | 105-107 |

The associate of applied science (A.A.S.) degree articulates with BSU's bachelor of applied science (B.A.S.) degree. See "Heavy Duty Mechanics Diesel" and "Welding and Metals Fabrication" for course descriptions.

# Office Occupations (15-Week Program)

*Instructors:* Ficks, Holcomb.

The Office Occupations Program is designed to give the student the basic knowledge and skills necessary 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 must have a high school diploma, GED, or high school equivalency, and must type 25 words per minute upon entry into the program.

Students choosing to continue their education may transfer Office Occupations credits into the Business Technology program's technical certificate or A.A.S. degree.

### Office Occupations Postsecondary Technical Certificate

| Course Number and Title | Credits |
|---|---|
| OFFOCC 102 Keyboarding Skill Development | 2 |
| OFFOCC 111 File Systems Management | 1 |
| OFFOCC 115 Job Readiness | 1 |
| OFFOCC 131 Business Communications | 2 |
| OFFOCC 135 Proofreading and Spelling | 2 |
| OFFOCC 141 Business Math/10-Key Operations | 1 |
| OFFOCC 152 Clerical Accounting | 2 |

*— continued —*

| *Office Occupations, T.C. (continued)* | |
|---|---|
| OFFOCC 160 Intro to PC and Windows | 1 |
| OFFOCC 161 Spreadsheet Software | 2 |
| OFFOCC 162 Word Processing | 2 |
| OFFOCC 165 Database Software | 2 |
| Total | 18 |

## Course Offerings

**See page 53 for a definition of the course-numbering system.**

**OFFOCC — OFFICE OCCUPATIONS**

**OFFOCC 102 KEYBOARDING SKILL DEVELOPMENT (0-5-2).** Diagnostic approach to improving keyboarding speed and accuracy using timed writings, speed, and accuracy drills. PREREQ: 25 net words per minute after deducting errors in a 3 minute timing.

**OFFOCC 111 FILE SYSTEMS MANAGEMENT (1-1-1).** Introduction to the various filing systems used, including alphabetical, numerical, geographical, and topical. Students use examples and simulated business products to practice filing methods.

**OFFOCC 115 JOB READINESS (1-2-1).** Preparation for successfully competing in today's job market. Equips students with knowledge of interviewing strategies, time management techniques, customer service skills, and other career-boosting skills.

**OFFOCC 131 BUSINESS COMMUNICATION (1-2-2).** 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 135 PROOFREADING AND SPELLING (1-3-2).** Comprehensive review of the components of quality business correspondence and documents. Correct symbols and techniques for producing and proofreading documents are developed. Spelling rules and patterns are reviewed and applied.

**OFFOCC 141 BUSINESS MATH/10-KEY OPERATIONS (1-2-1).** 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 152 CLERICAL ACCOUNTING (1-2-2).** Preparation for keeping financial records in the office. Use of the general and specialized journals, general ledger, financial statements such as balance sheets and income statements, bank reconciliation, worksheets and adjusting and closing entries are introduced.

**OFFOCC 160 INTRO TO PC AND WINDOWS (1-3-1).** Introduction to computer components and terminology, providing experience using Windows including the Control Panel, Print Manager, Card File, Calendar, and Write and creating groups, accessing software, and using File Manager. PREREQ: 25 net words per minute after deducting errors in a 3-minute timing.

**OFFOCC 161 SPREADSHEET SOFTWARE (1-4-2).** Concepts and applications of spreadsheet software, including understanding the worksheet elements; the menu; entering numbers, labels, formulas; using ranges to copy, move, format, and print data; entering simple formulas; editing and verifying results of formulas are applied. PREREQ: 25 net words per minute after deducting errors in a 3-minute timing.

**OFFOCC 162 WORD PROCESSING (1-4-2).** Provides experience in producing a variety of business documents with special features using automated office equipment. Includes instruction in text formatting including underlining, bolding, printing, editing, and saving. Emphasis is placed on correct document formatting and producing mailable documents. PREREQ: 25 net words per minute after deducting errors in a 3-minute timing.

**OFFOCC 165 DATABASE SOFTWARE (1-3-2).** Introduction to database management including creating and modifying a database structure; entering, deleting, and indexing data; using queries and forms; and printing. PREREQ: 25 words per minute after deducting errors in a 3-minute timing.

### Practical Nursing — see Department of Nursing in Chapter 13.

### Professional Truck Driving Program — See Idaho Professional Driver Training Program

# Recreational and Small Engine Repair Technology (9-Month or 2 Year Program)

*Instructor:* Beumeler, Schroeder.

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.

**Recreational and Small Engine Repair Technology Technical Certificate**

| Course Number and Title | Credits |
|---|---|
| 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 |
| TECSUP 111 Applied Communications | 3 |
| TECSUP 130 Mechanical Math | 1 |
| TECSUP 181 Occupational Relations | 3 |
| Total | 36 |

**Recreational and Small Engine Repair Technology Advanced Technical Certificate**

| Course Number and Title | Credits |
|---|---|
| Successful completion of technical certificate | 36 |
| 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 | 60 |

**Recreational and Small Engine Repair Technology Associate of Applied Science**

| Course Number and Title | Credits |
|---|---|
| Successful completion of technical courses | 53 |
| ENGL 101 **and** ENGL 102 **or** COMM 101 | 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<br>Please refer to the A.A.S. requirements in Chapter 11 for explanation. | 3-4 |
| Total | 69 |

The associate of applied science (A.A.S.) degree articulates with BSU's bachelor of applied science (B.A.S.) degree.

## Course Offerings

**See page 53 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 (9-Month or 2-Year Program)

*Instructor:* Davis, Miller.

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.

**Refrigeration, Heating, and Air Conditioning Technical Certificate**

| Course Number and Title | Credits |
|---|---|
| REFHTEC 121 HVAC/R Laboratory | 5 |
| REFHTEC 122 HVAC/R Laboratory | 6 |
| REFHTEC 141 HVAC/R Theory | 6 |
| REFHTEC 142 HVAC/R Theory | 7 |
| TECSUP 111 Applied Communications | 3 |
| TECSUP 136 Technical Math IV | 3 |
| TECSUP 181 Occupational Relations | 3 |
| Total | 33 |

**Refrigeration, Heating, and Air Conditioning Advanced Technical Certificate**

| Course Number and Title | Credits |
|---|---|
| Successful completion of 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 |

*— continued —*

***Refrigeration, Heating, and Air Conditioning, A.T.C. (continued)***

| | |
|---|---|
| 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 technical courses | 50 |
| ENGL 101 **and** ENGL 102 **or** COMM 101 | 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<br>Please refer to the A.A.S. requirements in Chapter 11 for explanation. | 3-4 |
| Total | 66 |

The associate of applied science (A.A.S.) degree articulates with BSU's bachelor of applied science (B.A.S.) degree.

## Course Offerings

**See page 53 for a definition of the course-numbering system.**

**REFHTEC — REFRIGERATION, HEATING, AND AIR CONDITIONING**

**REFHTEC 121** HVAC/R **LABORATORY (0-15-5)(F).** Provides laboratory application of principles covered in the theory class. Includes different phases of refrigeration, heating, and air conditioning. Skills needed by the refrigeration, heating, and air conditioning service person will be developed through practice. COREQ: REFHTEC 141.

**REFHTEC 122** HVAC/R **LABORATORY (0-18-6)(S).** Provides detailed laboratory application of principles and practice in developing refrigeration and electrical troubleshooting skills. Includes advanced phases of refrigeration, heating, and air conditioning. PREREQ: REFHTEC 121.

**REFHTEC 141** HVAC/R **THEORY (6-0-6)(F).** Provides a basic understanding of service equipment and tools used on commercial, residential, and industrial equipment, including heat pumps. Principles include thermodynamics, electrical and refrigeration theory, and their relationships to the HVAC/R equipment components. COREQ: REFHTEC 121.

**REFHTEC 142** HVAC/R **THEORY (7-0-7)(S).** Provides a more detailed understanding of refrigeration, heating, and air conditioning applications and systems. Involves duct sizing, pipe sizing, theoretical operation of refrigeration, heating, and air conditioning components, operating characteristics, and maintenance considerations. Give in-depth coverage of electrical circuit theory and use of test meters. PREREQ: REFHTEC 141, REFHTEC 122.

**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.

# Entry Level Respiratory Therapist Program (2-Year Program)

*Instructors:* Bressler, Brooks, Pukstas.

The Entry Level Respiratory Therapist program is designed to provide students with the theory and skills necessary for entry level employment in respiratory care and preparation for the Entry Level Examination of the National Board for Respiratory Care. The program emphasizes critical thinking and problem solving skills in the study of sciences and specialized subjects related to respiratory care. Clinical rotations consist of supervised acute, home, and long-term care of patients with cardiopulmonary conditions. The program is fully accredited by the Commission on Accreditation of Allied Health Educational Programs.

Enrollment in all RESPTEC courses requires admittance into the program and must be taken in sequence. An advisor from the Larry G. Selland College of Applied Technology will provide information regarding admitting criteria and the sequencing of courses (208-426-1431).

**Entry Level Respiratory Therapist Associate of Applied Science**

| Course Number and Title | Credits |
|---|---|
| RESPTEC 109 Introduction to Medical Terminology | 1 |
| RESPTEC 111 Cardiopulmonary Anatomy | 3 |
| RESPTEC 112 Cardiopulmonary Physiology | 3 |
| RESPTEC 113 Clinical Assessment | 3 |
| RESPTEC 114 Gas Therapy Theory | 3 |
| RESPTEC 115 Gas Therapy Lab | 1 |
| RESPTEC 119 Microbiology of the Respiratory System | 1 |
| RESPTEC 122 Hyperinflation Therapy | 2 |
| RESPTEC 125 Applied Medical Chemistry | 1 |
| RESPTEC 126 Applied Medical Physics | 1 |
| RESPTEC 164 Clinical Experience I | 2 |
| RESPTEC 165 Airway Management | 2 |
| RESPTEC 180 Intro to Nontraditional Respiratory Therapy Sites | 1 |
| RESPTEC 205 Clinical Experience II | 5 |
| RESPTEC 208 Mechanical Ventilation Theory | 3 |
| RESPTEC 209 Mechanical Ventilation Lab | 2 |
| RESPTEC 210 Introduction to Cardiopulmonary Pathophysiology | 2 |
| RESPTEC 225 Clinical Experience III | 5 |
| RESPTEC 226 Introduction to Pulmonary Function Theory | 1 |
| RESPTEC 227 Introduction to Pediatrics & Neonatology | 1 |
| RESPTEC 228 Cardiopulmonary Pharmacology | 3 |
| RESPTEC 230 Respiratory Care Review | 1 |
| ENGL 101 **and** ENGL 102 **or** COMM 101 | 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<br>Please refer to the A.A.S. requirements in Chapter 11 for explanation. | 3-4 |
| Total | 63 |

# Course Offerings

**See page 53 for a definition of the course-numbering system.**

**RESPTEC — RESPIRATORY THERAPY TECHNICIAN**

**RESPTEC 109 INTRODUCTION TO MEDICAL TERMINOLOGY (1-0-1)(F).** Medical terminology with emphasis on the prefixes, roots, suffixes, and abbreviations pertinent to respiratory care.

**RESPTEC 111 CARDIOPULMONARY ANATOMY (3-0-3)(F).** Introduction to the normal anatomy of the human cardiopulmonary system including the air conducting structures, lung parenchyma, gas exchange, heart structure, and cardiac conduction.

**RESPTEC 112 CARDIOPULMONARY PHYSIOLOGY (3-0-3)(S).** Normal physiology of the human cardiopulmonary system including normal oxygen transport, normal internal and external respiration, and normal acid-base balance.

**RESPTEC 113 CLINICAL ASSESSMENT (2-2-3)(S).** Theory and practice of respiratory assessment including inspection, percussion, palpation, and auscultation.

**RESPTEC 114 GAS THERAPY THEORY (3-0-3)(F).** Introduction to medical gases, humidity, aerosols, and aerosol generating devices for respiratory care.

**RESPTEC 115 GAS THERAPY LAB (0-2-1)(F).** Application of medical gases, humidity, and aerosol generating devices for respiratory care.

**RESPTEC 119 MICROBIOLOGY OF THE RESPIRATORY SYSTEM (1-0-1)(F).** A study of clinical microorganisms and infection control procedures for respiratory care.

**RESPTEC 122 HYPERINFLATION THERAPY (1-2-2)(S).** Theory and application of hyperinflation methods including intermittent positive pressure ventilation (IPPB) and incentive spirometry (IS).

**RESPTEC 125 APPLIED MEDICAL CHEMISTRY (1-0-1)(S).** Principles of atomic theory, mole concept, elements, chemical calculations, ions, solutions and acid-base theory.

**RESPTEC 126 APPLIED MEDICAL PHYSICS (1-0-1)(F).** Basic principles including forces, weight, fluids, gas behavior and kinetic theory of matter, pressure, and temperature.

**RESPTEC 164 CLINICAL EXPERIENCE I (0-8-2)(S).** Introduction to the clinical experience under direct supervision of clinical instructors with an emphasis on medical gases and patient assessment in community health care settings.

**RESPTEC 165 AIRWAY MANAGEMENT (2-0-2)(S).** An introduction to the placement and care of artificial airways including endotracheal tubes, tracheotomy tubes, and airway clearance procedures.

**RESPTEC 180 INTRODUCTION TO NONTRADITIONAL RESPIRATORY THERAPY SITES (1-0-1)(S).** Introduction to the equipment, reimbursement policies, and social aspects of respiratory care outside traditional medical facilities.

**RESPTEC 205 CLINICAL EXPERIENCE II (0-20-5)(F).** Clinical experience under direct supervision of clinical instructors with an emphasis on pulmonary hygiene procedures in community health care settings.

**RESPTEC 208 MECHANICAL VENTILATION THEORY (3-0-3)(F).** Theory of mechanical ventilation including indications, modes of ventilation, hazards, adjustments, and weaning procedures.

**RESPTEC 209 MECHANICAL VENTILATION LAB (0-4-2)(F).** Use of computer simulations and mechanical ventilation equipment to apply common mechanical ventilation procedures.

**RESPTEC 210 INTRODUCTION TO CARDIOPULMONARY PATHOPHYSIOLOGY (2-0-2)(F).** Abnormal responses of the human cardiopulmonary system to diseases and injuries.

**RESPTEC 225 CLINICAL EXPERIENCE III (0-20-5)(S).** Clinical experience under direct supervision of clinical instructors with an emphasis on mechanical ventilation in community health care settings.

**RESPTEC 226 INTRODUCTION TO PULMONARY FUNCTION THEORY (1-0-1)(F).** Theory of the techniques and interpretation of basic pulmonary function studies involving volumes and flowrates and their application to obstructive and restrictive pulmonary diseases.

**RESPTEC 227 INTRODUCTION TO PEDIATRICS AND NEONATOLOGY (1-0-1)(F).** Development of the respiratory system including common complications and equipment used to treat pediatric and neonatal disorders.

**RESPTEC 228 CARDIOPULMONARY PHARMACOLOGY (3-0-3)(F).** An introduction to the drugs commonly used in the care of the cardiopulmonary patient including principles and routes of the drug administration, actions, indications, contraindications, and physiologic responses.

**RESPTEC 230 RESPIRATORY CARE REVIEW (1-0-1)(S).** A comprehensive correlation of respiratory care modalities and their physical responses.

# Semiconductor Manufacturing Technology (2-Year Program)

*Instructor:* Dunn, Jansson, Jozwiak, Lonsdale, Sluder.

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.

**Semiconductor Manufacturing Technology Advanced Technical Certificate**

| Course Number and Title | Credits |
|---|---|
| CHEM 115 Materials Science Chemistry | 4 |
| ELCTEC 101 DC Electronics Laboratory | 2 |
| ELCTEC 102 AC Electronics Laboratory | 2 |
| ELCTEC 151 DC Electronics Theory | 3 |
| ELCTEC 152 AC Electronics Theory | 2 |
| ELCTEC 162 Digital Systems I | 3 |
| ELCTEC 163 Digital Systems I Lab | 1 |
| ELCTEC 172 Solid State Devices | 3 |
| ELCTEC 173 Solid State Devices Lab | 3 |
| ELCTEC 200 CET Certification (Recommended but not required) | (1) |
| ELCTEC 225 Programmable Logic Controllers | 1 |
| ELCTEC 226 Programmable Logic Controllers Lab | 1 |
| ELCTEC 241 Instrumentation | 3 |
| ELCTEC 242 Instrumentation Lab | 1 |
| MFGTEC 201 Quality Assurance and Statistical Process Control | 4 |
| MFGTEC 210 Introductory Robotics | 3 |
| MFGTEC 215 Pneumatic Control | 3 |
| MFGTEC 231 Technical Physics | 4 |
| SEMITEC 181 Integrated Circuit Processing I | 3 |
| SEMITEC 210 RF Energy and Plasma | 2 |
| SEMITEC 212 Vacuum | 2 |
| SEMITEC 282 Integrated Circuit Processing II | 3 |
| TECSUP 111 Applied Communications **OR** COMM 101 Fundamentals of Speech Communication | 3 |
| TECSUP 139 Technical Math IV | 3 |
| TECSUP 181 Occupational Relations | 3 |
| TECSUP 221 Technical Report Writing | 3 |
| Total | 65 |

The advanced technical certificate (A.T.C.) articulates with the associate of applied science (A.A.S.) degree.

**Semiconductor Manufacturing Technology Associate of Applied Science**

| Course Number and Title | Credits |
|---|---|
| Successful completion of technical courses | 53 |
| TECSUP 139 Technical Math IV | 3 |
| ENGL 101 **and** ENGL 102 **or** COMM 101 | 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<br>Please refer to the A.A.S. requirements in Chapter 11 for explanation. | 3-4 |
| Total | 72-74 |

The associate of applied science (A.A.S.) degree articulates with BSU's bachelor of applied science (B.A.S.) degree.

## Course Offerings

**See page 53 for a definition of the course-numbering system.**

**SEMITEC — SEMICONDUCTOR TECHNOLOGY**

**SEMITEC 181 INTEGRATED CIRCUIT PROCESSING I (2-3-3)(F/S).** Includes cleanroom protocol and microcontamination concerns, overview of process flows from bare silicon to finished product, introduction to several types of process equipment, and review of techniques for measuring and evaluating process wafers.

**SEMITEC 210 RF ENERGY AND PLASMA (1-3-2)(F/S).** Introduces high power radio frequency (RF) application and matching situations within the semiconductor field, as well as application to the generation and control of plasma. PREREQ: ELCTEC 152 or equivalent.

**SEMITEC 212 VACUUM (1-3-2)(F/S).** Explores the uses of high vacuum systems for material handling and control. Introduces principles of generation, control, leak detection, and safety of high vacuum systems.

**SEMITEC 282 INTEGRATED CIRCUIT PROCESSING II (2-3-3)(F/S).** An in-depth review of semiconductor fabrication processes. Includes micro-contamination concerns, devices, and products, detailed process flow, coverage of process modules, process troubleshooting, defect analysis, and different types of process and metrology equipment. PREREQ: CHEM 115, SEMITEC 181.

# Surgical Technology (9-Month Program)

*Instructor:* Bourbonnais, Jacobs.

Leading to a technical certificate, 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 (CAHEP). 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.

**Surgical Technology Technical Certificate**

| Course Number and Title | Credits |
|---|---|
| SURGTEC 100 Introduction & Basic Sciences | 3 |
| SURGTEC 101 Operating Room Techniques | 4 |
| SURGTEC 102 Sterilization & Disinfection | 1 |
| SURGTEC 110 Preparation of Surgical Patient | 3 |
| SURGTEC 111 Surgical Procedures | 7 |
| SURGTEC 116 Peri Operative Care Surgical Patient | 1 |
| SURGTEC 132 Surgery Clinical Practice | 9 |
| SURGTEC 140 Anatomy & Physiology for Surgical Technology | 6 |
| SURGTEC 150 Job-Seeking Skills | 1 |
| Total | 35 |

## Course Offerings

**See page 53 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 (3-3-4)(F).** The study of: (1) safety and economy in the operating room; (2) duties of the scrub and circulating technician; (3) surgical hand scrub, gown and glove procedures; (4) draping techniques; (5) sutures and needles; (6) sponges, dressings, drains, care of specimens; and (7) instruments and special equipment.

**SURGTEC 102 STERILIZATION AND DISINFECTION (1-1-1)(F).** Introduction to microorganisms with emphasis on sterilization and disinfection methods.

**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 (6-3-7)(S).** The study of: (1) general surgical procedures; (2) general abdominal procedures; (3) orthopedic surgery; (4) obstetric and gynecological procedures; (5) genitourinary and transplant surgery; (6) plastic surgery; (7) ophthalmic surgery; (8) ear, nose, throat, oral surgery; (9) neurosurgery; (10) microsurgery; (11) cardiovascular and thoracic surgery; and (12) pediatric and geriatric surgery. Each of the modules includes a brief history, procedures, special considerations, and the drugs used.

**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 (0-36-9)(S).** Clinical experience in surgery, scrubbing, and orientation to circulating.

**SURGTEC 140 ANATOMY AND PHYSIOLOGY FOR SURGICAL TECHNOLOGY (6-0-6)(F).** A study of the normal structure and function of the body cells, tissues, organs and systems, including interrelationship of body systems.

**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.

# Technical Support Course Offerings

**See page 53 for a definition of the course-numbering system.**

**TECSUP — TECHNICAL SUPPORT**

**TECSUP 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.

**TECSUP 70 BASIC MATH REVIEW (3-0-0).** Whole numbers, fractions, decimals, ratios, proportions, percents, averages, and measurements.

**TECSUP 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.

**TECSUP 85 BASIC COMPOSITION (3-0-0).** Fundamental skills in grammar, word usage, and punctuation. Builds sentence, paragraph, and basic essay skills. PREREQ: Satisfactory placement scores.

**TECSUP 90 ELEMENTARY ALGEBRA (3-0-0).** Brief review of arithmetic operations and their properties. Introduces positive interger exponents, variables, algebraic expressions, solutions of linear equations, definition of absolute value, product of two binomials, quadratic equations, slope, simple word problems. PREREQ: Satisfactory placement scores or passing grade in TECSUP 70 or MATH 15.

**TECSUP 111 APPLIED COMMUNICATIONS (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: Satisfactory placement score.

**TECSUP 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 angels. First four-week block.

**TECSUP 136 TECHNICAL MATH IV (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.

**TECSUP 137 TECHNICAL MATH V (1-0-1)(S).** Principles of basic geometry and trigonometry relating to applied technology. First five-week block. PREREQ: TECSUP 136.

**TECSUP 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.

**TECSUP 139 TECHNICAL MATH VI (3-0-3)(F/S).** Intermediate principles of algebra, geometry, and trigonometry for applied technology. PREREQ: COMPASS algebra score of 46, or TECSUP 136.

**TECSUP 141 TECHNICAL MATH VII (3-0-3)(F/S).** Intermediate math for applied technology. Topics cover concepts of statistics, direct applications of algebra, and graphing of functions. PREREQ: TECSUP 139.

**TECSUP 143 TECHNICAL MATH VIII (3-0-3)(S).** Applied mathematics relating to machine tool technology including fundamentals of algebra, principles of plane geometry, trigonometry, and compound angles. PREREQ: TECSUP 136.

**TECSUP 181 OCCUPATIONAL RELATIONS (3-0-3)(F,S).** Dynamics of organizational culture. Skills for succeeding in the workplace: interviewing, conflict management, team-building, meeting facilitation, employee rights, workplace diversity, and professional work ethics.

**TECSUP 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.

# Welding and Metals Fabrication (11-Month Program)

*Instructors:* Baldner.

Leading to a technical certificate, 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 oxyacetylene burning, brazing, soldering, air carbon arc gouging, and plasma arc gouging and cutting.

Students learn blueprint reading and layout skills and apply them by using common hand layout tools, mechanical metal shears, mechanical metal-bending equipment, drilling equipment, precision automated oxyacetylene burning equipment, computer numerical controlled plasma cutting equipment, precision computer numerical controlled metal shearing equipment, precision computer numerical controlled oxyacetylene shape-cutting equipment, computer numerical controlled assisted metal-bending equipment, and other tools of the trade.

**Welding and Metals Fabrication Technical Certificate**

| Course Number and Title | Credits |
|---|---|
| TECSUP 111 Applied Communications | 3 |
| TECSUP 181 Occupational Relations | 3 |
| WELD 106 Welding Laboratory | 8 |
| WELD 107 Welding Laboratory | 8 |
| WELD 108 Welding Lecture/Laboratory | 7 |
| WELD 125 Blueprint Reading and Layout | 3 |
| WELD 126 Blueprint Reading and Layout | 7 |
| WELD 155 Welding Theory | 4 |
| WELD 156 Welding Theory | 1 |
| WELD 157 Introduction to Microcomputers | 1 |
| Total | 45 |

# Course Offerings

**See page 53 for a definition of the course-numbering system.**

**WELD — WELDING AND METALS FABRICATION**

**WELD 106 WELDING LABORATORY (1-16-8)(F).** Students apply and practice those skills discussed in the welding theory and blueprint reading and layout courses. Emphasis will be on acquiring new skills in a number of areas related to the occupation including shielded metal arc welding (SMAW) (stick welding); oxyacetylene burning (manual and automatic); oxyacetylene brazing, soldering and welding (OAW); gas metal arc welding (GMAW)(MIG); flux cored arc welding (FCAW); material identification; electrode selection; and layout and fabrication skill.

**WELD 107 WELDING LABORATORY (1-16-8)(S).** Students apply and practice those skills discussed in the welding theory and blueprint reading and layout courses. Emphasis will be on acquiring job entry level skills in the following areas: shielded metal arc welding (SMAW); oxyacetylene burning (manual and automatic); oxyacetylene brazing, soldering and welding (OAW); gas metal arc welding (GMAW)(MIG); flux cored arc welding (FCAW); material identification; electrode selection; layout and fabrication skill; air arc gouging; and welder qualification tests. PREREQ: WELD 106 or PERM/INST.

**WELD 108 WELDING LECTURE/LABORATORY (1-13-7)(SU).** Summer session (2 months) for basic students to continue on track and for advanced students to work into TIG, PIPE and qualification tests. Further emphasis on blueprint analysis, properties of materials, and safe operating procedures is given. PREREQ: WELD 107 or PERM/INST.

**WELD 125 BLUEPRINT READING AND LAYOUT (3-1-3)(F).** Basics of orthographic drawing, layout and fabrication techniques for plate and gauge material developments or rectangular and triangular shapes, flat pattern development of rectangular shapes, and the related math required to accomplish the above listed developments.

**WELD 126 BLUEPRINT READING AND LAYOUT (7-1-7)(S).** Advanced blueprint reading and layout techniques to develop triangular constructions, rectangle to rectangle transitions, round to round transitions, circles and rolled shapes as well as the related math. Also included will be structural detailing, layout and fabrication of structural shapes and the related symbols, y abbreviations and ordering information. PREREQ: WELD 125 or PERM/INST.

**WELD 155 WELDING THEORY (4-1-4)(F).** Practical working knowledge of the following topics: basic welding theory; oxyacetylene burning; electrode selection; continuous wire feed welding processes; oxyacetylene brazing; soldering and welding; properties of materials; material identification and basic metallurgy.

**WELD 156 WELDING THEORY (1-1-1)(S).** Practical working knowledge of the following topics: welding sheet metal with the SMAW and GMAW processes; control of arc blow and welding distortion; air arc gouging; and welder qualification testing. PREREQ: WELD 155 or PERM/INST.

**WELD 157 INTRODUCTION TO MICROCOMPUTERS (1-1-1)(SU).** Microcomputer skills related to the welding field, including disk operating system (DOS) and basic word processing.

# Boise State University Faculty

## Full-Time Official Faculty as of February 2001

NOTE: The date in parentheses is the year of first appointment.

### A

Adams Carmen.....(1993)
Assistant Professor, Nursing; M.S., Idaho State University

Affleck Stephen B.....(1981)
Professor, Civil Engineering; Ph.D., Iowa State University

Ahmed-Zaid Said.....(1996)
Associate Professor, Electrical and Computer Engineering; Ph.D., University of Illinois at Urbana-Champaign

Allen Robert L.....(1976)
Program Head and Senior Instructor, Industrial Maintenance Technology; B.A., Boise State University

Allen Robin W.....(1997)
Assistant Professor, Social Work; Ph.D., University of Illinois at Urbana-Champaign

Allerton Barbara.....(1993)
Assistant Professor, Nursing; M.S., Virginia Commonwealth University

Alm Leslie.....(1991)
Chair and Associate Professor, Political Science; Ph.D., Colorado State University

Andersen Rudy A.....(1992)
Chair and Associate Professor, Health Studies; D.D.S, Washington University

Anderson Holly L.....(1989)
Professor, Foundations, Technology, and Secondary Education; Ph.D., Utah State University

Anderson Jeffrey M.....(1986)
Director, Clinical Education and Associate Professor, Respiratory Therapy; M.A., Boise State University

Anderson Robert.....(1970)
Professor, Mathematics; Ph.D., Michigan State University

Anooshian Linda James.....(1988)
Professor, Psychology; Ph.D., University of California, Riverside

Anson Robert.....(1990)
Professor, Computer Information Systems and Production Management; Ph.D., Indiana University

Arambarri Gary.....(1976)
Manager, Industrial/Mechanical Division; Senior Instructor, Welding; B.S. Education, University of Idaho

Armstrong James.....(1992)
Professor, Foundations, Technology, and Secondary Education; Ph.D., University of Illinois

Ashworth Lonny J.....(1977)
Professor, Respiratory Therapy; M.Ed., College of Idaho

Atlakson Philip.....(1985)
Associate Professor, Theatre Arts; M.A., State University of New York, Binghamton

Ayers Kathleen L.....(1983)
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### B

Bacon Stephanie.....(1996)
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Bahnson Paul R.....(1999)
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Bahruth Robert.....(1988)
Professor, Elementary Education and Specialized Studies; Ph.D., University of Texas, Austin

Baker Richard P.....(1973)
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Baker Russel Jacob.....(2000)
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Baldassarre Joseph A.....(1975)
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Baldner Ronald.....(1978)
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Baldwin John B.....(1971)
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Ballenger Bruce.....(1995)
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Baltzell Michael L.....(1991)
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Bammel Brad P.....(1988)
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Banks Richard C.....(1968)
Professor, Chemistry; Ph.D., Oregon State University

Barney Lloyd Dwayne.....(1986)
Professor, Marketing and Finance; Ph.D., Texas A & M

Barney-Smith Elisa.....(1999)
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Barnhardt Larry.....(1997)
Dean and Professor, Larry G. Selland College of Applied Technology; Ph.D., Oregon State University

Barr Bonny.....(1999)
Instructor, Nursing; M.S., Emory University

Barr Robert.....(1991)
Professor, Foundations, Technology, and Secondary Education; Ph.D., Purdue University

Bartoszynski Tomasz.....(1990)
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Battalio John T.....(1995)
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Baughn C Christopher.....(1995)
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Bauwens Jeanne.....(1977)
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Bazemore Norris S Jr.....(1998)
Reference Librarian, Library; Associate Professor, Library Science., M.L.S., University of South Carolina, Columbia

Bechard Marc Joseph.....(1983)
Graduate Program Coordinator, Raptor Biology; Professor, Biology; Ph.D., Washington State University

Beckman Terrie L.....(1990)
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Belfy Jeanne Marie.....(1983)
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Bell Kenneth.....(1997)
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Belthoff James.....(1993)
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Benton Danny.....(1983)
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Berg Lynn R.....(1984)
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Beumeler Gene.....(2000)
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Bigelow John D.....(1982)
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Birdsall, Bobbie A.....(1995)
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Bixby Michael B.....(1981)
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Black Geoffrey Alan.....(2000)
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Blackburn Leslie.....(1992)
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Blain Michael.....(1982)
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Blankenship Jim.....(1977)
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Boucher Teresa.....(1994)
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Brill Stephen H.....(1998)
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Brudenell Ingrid.....(1991)
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Buchanan Mark A.....(1996)
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Budde James.....(1994)
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Buhler Peter.....(1977)
Chair and Professor, History; Ph.D., University of California-San Diego

Bullock Douglas.....(1995)
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Bunnell David.....(1996)
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Burkett Susan.....(1997)
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### C

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Charlier Henry A.....(2000)
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Chavez Carolyn .....(2000)
Assistant Professor, Management; Ph.D., State University of New York
Christensen Steve.....(1987)
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Clark Cynthia .....(1997)
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Colby Conrad.....(1970)
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Coll Kenneth M.....(1998)
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Constant Isabelle.....(1997)
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Cook Devan .....(1997)
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Assistant Professor, Sociology; Th.M., Iliff School of Theology
Corless-Smith Martin .....(2000)
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Cortens Andrew.....(1996)
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Cotrell Gretchen .....(1991)
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Cox Marvin.....(1977)
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Crank John .....(1994)
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## D

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DeBeliso Mark.....(2000)
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Dever Kellie .....(1998)
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Dodson Jerry .....(1970)
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Downey Margaret.....(1994)
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Dubert LeeAnn.....(1992)
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Dufty Alfred M .....(1988)
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Dunbar Don.....(1999)
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Dunn Jim .....(2001)
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Duttagupta Siddhartha .....(1997)
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## E

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Evett Stuart D ..... (1972)
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## F

Farnsworth Judy .....(1989)
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Feldman Alex .....(1988)
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Ferguson James.....(1996)
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Foster Thomas.....(1993)
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Frederickson Patricia .....(1999)
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Freemuth John C.....(1986)
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French Judith .....(1976)
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Friedli Robert L .....(1972)
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Fry Phillip C .....(1987)
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Fuhriman Jay R.....(1977)
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Fulton J. Michael .....(1999)
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## G

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Gains Charles R.....(1988)
Assistant Professor, Construction Management; M.B.A., Boise State University
Gallup V Lyman .....(1977)
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Gardner John F .....(2000)
Chair and Professor, Mechanical Engineering; Ph.D., Ohio State University
Garner Bradley E.....(1999)
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Smith Kirk ....(1993)
Chair and Associate Professor, Marketing and Finance; Ph.D., University of Houston
Smith Mary Jarratt ....(1987)
Associate Professor, Mathematics; Ph.D., Montana State University
Smith William S ....(1973)
Professor, Physics; Ph.D., University of Wisconsin, Madison
Snyder Walter S ....(1984)
Professor, Geosciences; Ph.D., Stanford University
Spear Caile E ....(1996)
Assistant Professor, Kinesiology; Ph.D., University of Arkansas
Sperry David....(1997)
Program Head and Standard Instructor, Machine Tool Technology; B.A.S., Boise State University
Spinosa Claude ....(1970)
Chair and Professor, Geosciences; Ph.D., University of Iowa
Springer Pamela ....(1989)
Director A.S. Nursing and Associate Professor, Nursing; Ph.D., Idaho State University
Stack James D ....(1984)
Advanced Instructor, Electronics Technology; M.S., New Jersey Institute of Technology
Staley Orland Scott....(1989)
Assistant Professor, Radiologic Sciences; M.A., Boise State University
Starkey William L ....(2000)
Interim Instructor, Machine Tool Technology; B.S., Boise State University
Steiner Stanley....(1992)
Associate Professor, Elementary Education and Specialized Studies; Ph.D., University. of Wyoming
Stewart Roger ....(1995)
Graduate Program Coordinator and Professor, Elementary Education and Specialized Studies; Ph.D., Purdue University
Stoeckenius Kai ....(1992)
Head of Catalog Department, Associate Professor, Library Science; M.L.S., University of California, Berkeley
Stoffels-Sharpe Sharon....(1998)
Assistant Professor, Nursing; M.S.N., California State University, Dominguez Hills
Stohr Mary K....(1993)
Chair and Associate Professor, Criminal Justice Administration; Ph.D., Washington State University
Straub Hilary....(1984)
Associate Professor, Nursing; Ph.D., University of Texas at Austin
Strong Janet ....(1973)
Orientation Librarian; Coordinator of User Services; Professor, Library Science; M.L.S., University of Washington
Sulanke Robert....(1970)
Professor, Mathematics and Computer Science; Ph.D., University of Kansas
Sumter Bonnie J ....(1978)
Advanced Instructor, Basic and Applied Academics; B.S.Ed., University. of Idaho

## T

Tabor Sharon W ....(1998)
Assistant Professor, Computer Information Systems and Production Management; Ph.D., University of North Texas
Taye John A ....(1975)
Professor, Art; M.F.A., Otis Art Institute
Taylor Adrien P Jr ....(1977)
Coordinator of Reference Services, Library; Professor, Library Science; M.A., University of Denver
Taylor James A ....(1997)
Dean and Professor, College of Health Sciences; Ed.D., George Washington University
Taylor Patricia A....(1975)
Director of BSN Nursing and Professor, Nursing; M.S., Idaho State University
Taylor Ronald S....(1975)
Professor, Art; M.F.A., Utah State University
Tennyson Stephen A ....(1995)
Associate Professor, Mechanical Engineering; Ph.D., Wayne State University
Thorsen Carolyn....(1987)
Director, of Technology Programs; Professor, Foundations, Technology, and Secondary Education; Ph.D., Utah State University
Toevs Sarah L ....(2000)
Associate Professor, Master of Health Science Program; Ph.D., University of Utah, Salt Lake City
Tollinger Bonnie J .... (1976)
Program Head and Senior Instructor, Dental Assisting; Certificate, State University of New York
Towle Mary Ann ....(1976)
Program Head, Senior Instructor, Practical Nursing; M.Ed., University of Idaho
Travis Darlene K ....(1989)
Assistant Professor, Radiologic Sciences; B.S., Idaho State University
Trusky Tom ....(1970)
Professor, English; M.A., Northwestern University
Turner Lee Ann ....(1996)
Assistant Professor, Art; Ph.D., University of Pennsylvania
Turrisi Robert....(1995)
Associate Professor, Psychology; Ph.D., State University of New York at Albany
Twight Charlotte ....(1986)
Professor, Economics; Ph.D., University of Washington
Tyson Liana L ....(1998)
Assistant Professor, Music; D.M.A., Eastman School of Music

## U

Uehling Karen S....(1981)
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## V

Vaughn Ross E ....(1973)
Chair and Professor, Kinesiology; Ph.D., Washington State University
Vinz Warren L....(1968)
Professor, History; Ph.D., University of Utah
Virta Alan....(1988)
Head of Special Collections, Library; Associate Professor, Library Science; M.L.S., University of Maryland

## W

Waite Wenden W ....(1976)
Chair and Professor, Elementary Education and Specialized Studies; Ph.D., Utah State University
Waldorf Larry L....(1970)
Associate Professor, Marketing/Management Technology; Ph.D., Colorado State University
Walen R Sharon....(1996)
Associate Professor, Mathematics; Ph.D., Washington State University
Wallace Steve R.... (1972)
Assistant Professor, Kinesiology; M.S., University of Utah
Walsh Anthony ....(1984)
Professor, Criminal Justice Administration; Ph.D., Bowling Green State University
Wanek James....(1996)
Associate Professor, Management; Ph.D., University of Minnesota
Ward Frederick R .... (1969)
Professor, Mathematics; Ph.D., Virginia Polytechnic Institute and State University
Ward Keith ....(1999)
Assistant Professor, Management; Ph.D., Ohio State University
Watson Elaine J ....(1999)
Documents and Reference Librarian, Library; Assistant Professor, Library Science; M.L.S., University of Alberta
Watson Victor....(2000)
Advanced Instructor, Basic and Applied Academics; Ed.D., Texas Tech University
Weatherby James B....(1989)
Chair and Associate Professor, Public Policy and Administration; Ph.D., University of Idaho
Wells David A ....(1986)
Associate Professor, Music; M.M.E., VanderCook College of Music
Wells F David ....(1997)
Interim Instructor, Farm Business Management; B.S., University of Idaho
Wertman Donald L ....(1979)
Program Head; Senior Instructor, Machine Tool Technology; A.A.S., Pennsylvania State University
White Craig ....(1980)
Professor, Geosciences; Ph.D., University of Oregon
White Harry ....(1988)
Professor, Marketing and Finance; Ph.D., Texas A & M
Wicklow-Howard Marcia ....(1975)
Professor, Biology; Ph.D., Oregon State University
Widmayer Jayne A ....(1978)
Graduate Program Coordinator and Professor, English; Ph.D., University of Michigan
Wieland Mitchell ....(1996)
Assistant Professor, English; M.F.A., University of Alabama
Wilkins David E....(2000)
Assistant Professor, Geosciences; Ph.D., University of Utah
Willison Scott....(1997)
Associate Professor, Foundations, Technology, and Secondary Education; Ph.D., Indiana University
Wilson Martha-Velerie K....(1994)
MSW Coordinator and Associate Professor, Social Work; Ph.D., University of Alabama
Wines William A ....(1984)
Professor, Management; J.D., University of Michigan
Winiecki Donald....(1997)
Assistant Professor, Instructional & Performance Technology; Ed.D., Texas Tech University
Witt Stephanie L ....(1989)
Associate Vice President for Academic Affairs and Professor, Political Science; Ph.D., Washington State University
Wojtkowski W Gregory ....(1982)
Professor, Computer Information Systems and Production Management; Ph.D., Case Western Reserve University
Wojtkowski Wita ....(1983)
Professor, Computer Information Systems and Production Management; Ph.D., Case Western Reserve University
Wollheim Peter ....(1989)
Associate Professor, Communication; Ph.D., McGill University
Wood Spencer H ....(1977)
Professor, Geosciences; Ph.D., California Institute Of Technology

Woods Shelton .....(1994)
Associate Professor, History; Ph.D., University of California, Los Angeles
Wyers Giselle.....(2000)
Assistant Professor, Music; D.M.A., University of Arizona

**Y**

Yeh Jyh-haw.....(2000)
Assistant Professor, Computer Science; Ph.D., University of Florida
Yenor Scott E.....(2000)
Assistant Professor, Political Science; Ph.D., Loyola University, Chicago
Young Katherine.....(1988)
Professor, Elementary Education and Specialized Studies; Ed.D., Utah State University
Young Richard.....(1994)
Gallery Director and Associate Professor, Art; M.F.A., Washington State University
Yunker Douglas.....(1976)
Associate Professor, Social Work; M.S.W., Indiana University

**Z**

Zaerr Linda M.....(1987)
Professor, English; Ph.D., Washington State University
Zirinsky Michael P.....(1973)
Professor, History; Ph.D., University of North Carolina Chapel Hill

# Boise State University Emeriti

## Faculty

Dorothy Albertson, Professor, Office Administration (1953-1977)
John W. Allen, Professor, Physics (1971-2001)
Charles W. Baker, Professor, Biology (1968-2000)
John B. Barnes, President, Boise State University (1967-1977)
Gwynn W. Barrett, Professor, History (1968-1992)
Wylla D. Barsness, Professor, Psychology (1968-1992)
John Beitia, Professor, Teacher Education (1970-1985)
Elton B. Bentley, Professor, Geosciences (1977-1999)
John H. Best, Professor, Music (1947-1983)
Robert R. Boren, Professor, Communications (1971-1999)
Karen J. Bounds, Professor, Business and Office Education (1973-1995)
Bill Bowman, Department Chair and Professor, Physical Education (1969-1985)
Phyllis Bowman, Assistant Professor, Physical Education (1969-1985)
Jean C. Boyles, Assistant Professor, Physical Education (1949-1957,1962-1984)
C. Griffith Bratt, Professor, Music (1946-1976)
Susan Brender, Professor, Computer Information Systems (1977-1998)
Alan P. Brinton, Associate Vice President for Academic Affairs, Professor, Philosophy (1975-2000)
James R. Buchanan, Assistant Professor, Welding (1959-1978)
Richard E. Bullington, Vice President for Information Extension, Professor, Teacher Education (1968-1989)
Clara Burtch, Associate Professor, Teacher Education, Library Science (1969-1978)
Tom J. Cade, Director, Raptor Research, Professor, Raptor Biology (1987-1993)
Erma M. Callies, Department Head and Counselor, Vocational Student Services (1969-1985)
Janet LaRae Mary Carlton,Senior Instructor, Business Programs (1974-1998)
Garvin D. Chastain, Professor, Psychology (1978-2000)
Acel H. Chatburn, Professor, Education (1944-1977)
Marvin L. Clark, Professor, Computer Information Systems and Production Management (1969-1993)
Doran L. Connor, Assistant Professor, Physical Education (1966-1989)
Robert Cornwell, Professor, Business Communication (1969-1994)
David Crane, Head Catalog Librarian (1969-1991)
E. John Dahlberg, Professor, Teacher Education (1970-1989)
Norman Dahm, Department Chair and Professor, Construction Management and Pre-Engineering (1953-1990)
Mary Dallas, Program Head, Senior Instructor, Practical Nursing (1976-1989)
Jack L. Dalton, Professor, Chemistry (1958-1995)
James G. Doss, Associate Dean, College of Business, Associate Professor, Management (1970-1984)
Dorothy Douglas, Professor, Biology (1981-1998)
Gerald F. Draayer, Professor, Economics (1976-2000)
Catherine Elliott, Professor, Music (1969-1997)
Wilber D. Elliott, Professor, Music (1969-1994)
Robert Ericson, Associate Professor, Theatre Arts, (1969-1993)
Evelyn C. Everts, Associate Professor, Library Science (1957-1977)
Marjorie Fairchild, Associate Professor, Library Science (1966-1975)
David Ferguson, Associate Professor, Mathematics (1970-1997)
Carol E. Fountain, Associate Professor, Nursing (1967-1999)
E. Coston Frederick, Professor, Teacher Education, (1971-1992)
H. K. Fritchman II, Professor, Biology (1954-1989)
Albert Fuehrer, Instructor, Auto Mechanics Technology (1965-1978)
Eugene G. Fuller, Professor, Biology (1967-2000)
Margaret Gourley, Advanced Instructor, Child Care and Development (1977-1992)
James Haefer, Associate Professor, Engineering (1982-1996)
Ralph W. Hansen, Associate University Librarian, Professor, Library Science (1979-1989)
Richard L. Hart, Dean, College of Education and Professor of Teacher Education (1977-1991)
Robert A. Hibbs, Professor, Chemistry (1965-1990)
Ken L. Hill, Associate Dean, College of Education, Professor of Teacher Education (1968-1991)
Ted H. Hopfenbeck, Associate Professor, Criminal Justice Administration (1967-1995)
James W. Hopper, Associate Professor, Music (1970-1986)
Madeline DeMory Hsu, Professor, Music (1971-1997)
Howard L. Huff, Professor, Art (1965-1999)
Robert B. Hughes, Professor, Mathematics & Computer Science (1971-2001)
Gail Ison, Professor, Psychology (1970-1990)
Robert D. Jameson, Special Lecturer, Management (1979-1988)
John H. Jensen, Professor/Int. Assoc. Dean, Teacher Education/Coll. of Educ. (1969-2000)
George Jocums, Associate Professor, Modern Languages (1973-1997)
Helen R. Johnson, Associate Professor, Business Education (1955-1978)
Robert C. Juola, Professor, Mathematics (1970-2000)
John Killmaster, Professor, Art (1970-1997)
Louis J. King, Instructor, Auto Mechanics Technology (1970-1985)
William Kirtland, Professor, Elementary Education and Specialized Studies (1969-1995)
Leo L. Knowlton, Professor, Marketing (1965-1985)
Alfred J. Kober, Professor, Art (1968-1999)
Ellis W. Lamborn, Professor, Economics (1968-1989)
Max Lamborn, Instructor, Parts Counterperson (1972-1981)
John Leigh, Jr., Instructor, Drafting Technology (1971-1983)
Ray Lewis, Associate Professor, Health, Physical Education, and Recreation (1956-1994)
Joan Lingenfelter, Program Head and Instructor, Child Care Services (1973-1988)
Hugh T. Lovin, Professor, History (1965-1992)
Briattha Lvkken, Associate Professor, English (1968-1994)
Tom MacGregor, Instructor, Civil Engineering (1990-1997)
D. Jean MacInnis, Program Head and Senior Instructor, Dental Assisting (1962-1990)
Giles W. Maloof, Professor, Mathematics (1968-2000)
Darwin W. Manship, Professor, Business Communication (1970-1991)
Constance Matson, Associate Professor, Nursing (1968-1992)
C. Michael Merz, Professor, Accountancy (1974-1999)
Carroll Meyer, Professor, Music (1948-1985)
Charles Mikesell, Senior Instructor, Applied Technology (Auto Mechanics) (1976-1995)
Florence M. Miles, Professor, Nursing (1955-1980)
Gary R. Newby, Professor, Physics (1966-2000)
Ross Nickerson, Assistant Professor, English (1969-1997)
David Nix, Associate Professor, Accountancy (1974-1999)
Fredrick J. Norman. Professor, Theatre Arts (1969-1994)
Donald R. Oakes, Associate Professor, Music (1966-1996)
Donald J. Obee, Professor, Botany (1946-1977)
Thomas E. Olson, Standard Instructor, Drafting (1975-1990)
David L. Oravez, Chair and Professor, Art (1964-1994)
Patricia K. Ourada, Professor, History (1962-1993)
Willard Overgaard, Professor, Political Science (1972-1994)
Neldon D. Oyler, Program Head and Standard Instructor, Horticulture (1966-1992)
Herbert D. Papenfuss, Professor, Botany (1967-1992)
Ethel Pearson, Associate Professor, Foundations, Technology and Secondary Education (1981-1997)
Louis A. Peck, Chair and Professor, Art (1955-1989)
Margaret Peek, Associate Dean, College of Arts and Sciences, Professor, English (1967-1987)
John L. Phillips, Chair and Professor, Psychology (1954-1989)
C. Harvey Pitman, Associate Professor, Communication (1966-1994)
David W. Rayborn, Associate Professor, Communication (1969-1996)
John Robertson, Associate Professor, Modern Languages (1974-1997)
Elaine C. Rockne, Director and Instructor, Health Information Management (1968-1986)
Michon Rozmajzl, Professor, Music (1986-1998)
Chaman L. Sahni, Professor, English (1975-2001)
Martin Scheffer, Professor, Sociology (1964-1997)
Gerald H. Schroeder, Professor, Music (1978-2000)
Duston R. Scudder, Professor, Marketing (1964-1987)
William E. Shankweiler, Professor, Theatre Arts (1956-1994)
Melvin Shelton, Professor, Music (1968-1992)
Robert C. Sims, Professor, History (1970-1999)
Ramlaykha Singh, Professor, Foundations, Technology, and Secondary Education (1975-1995)
William G. Skillern, Professor, Political Science (1971-2000)
Arny R. Skov, Professor, Art (1967-1995)
Frank Smartt, Assistant Professor, Mathematics (1958-1981)
Donald D. Smith, Professor, Psychology (1967-1984)
Lyle H. Smith, Director, Intercollegiate Athletics, Professor, Physical Education (1946-1981)
Mark Snow, Professor, Psychology (1971-2000)
Frank W. Stark, Professor, Chemistry (1957-2000)
Harry L. Steger, Professor, Psychology (1972-1990)
Thomas E. Stitzel, Professor, Finance (1975-2000)
Joan A. Suedmeyer, Associate Professor, Elementary Education and Specialized Studies (1986-1995)
Robert Sylvester, Associate Professor, History (1963-1982)
Yozo Takeda, Professor, Mathematics (1968-1994)
John S. Takehara, Professor, Art (1968-1993)
David S.Taylor, Professor, Psychology (1972-1998)
Albert Tennyson, Instructor, Industrial Communications (1966-1977)
George L.Thomason, Associate Professor, Music (1971-1999)
Connie M. Thorngren, Associate Professor, Kinesiology (1970-2001)
Carl W. Tipton, Associate Professor, Management (1965-1980)
JoAnn T. Vahey, Accreditation Coordinator, Professor, Nursing (1973-1995)
Luis J. Valverde, Professor, Languages (1965-1992)
Charles Waag, Professor, Geosciences (1981-1998)
Eunice Wallace, Associate Professor, English (1968-1978)
Gerald Wallace, Dean, Professor, College of Education (1968-1978)
William B. Warberg, Associate Professor, Computer Information Systems and Production Management (1977-1994)
Mont M. Warner, Professor, Geosciences; (1967-1984)
Donald L. Wertman, Senior Instructor, Machine Tool Technology (1979-2000)
Allen Weston, Senior Instructor, Drafting Technology (1964-1985)
Wayne E. White, Professor, Management (1965-1987)
Marguerite Wilcox, Associate Professor, Nursing (1972-1991)
Edwin E. Wilkinson, Dean, Student Special Services, Professor, Psychology (1958-1992)
Marjorie Williamson, Associate Professor, College of Technology (1967-1997)
Lonnie L.Willis, Professor, English (1970-1998)
Monte Wilson, Professor, Geosciences (1969-1997)
Peter K. Wilson, Professor, Business Administration (1966-1977)

Jim Wilterding, Professor, Management (1976-1994)
Ella Mae Winans, Associate Professor, Mathematics (1958-1983)
Gilbert A. Wyllie, Associate Professor, Biology (1965-1993)
Virgil M. Young, Professor, Education (1967-1996)

## Professional Staff

Jacquelyn H. Cassell, Assistant to the President (1964-1995)
Ed Jacoby, Head Track Coach (19??-1996)
William Jensen, Dean, Continuing Education (1974-1995)
Ted Keith, Director, Internal Auditing (1966-1997)
Carol Ladwig, Assistant Director, Athletics (1978-1998)
Gail Maloney, Director, Risk Management, Insurance and Safety (1972-2001)
Lester Nyborg, M.D., Director of Student Health Center (1976-1995)
Herbert W. Runner, Director, Institutional Research (1947-1984)
Phyllis L. Sawyer, Director, BSU Wellness/RADAR/PAYADA (1986-1999)
Ron Turner, Director, Budget Office (1967-1997)
Darrell VanKleek, Controller (1969-1995)
Marlene Voulelis, Director, Administrative Data Processing (1981-1994)
Chris Woodward, Financial Aid Counselor, Financial Aid (1977-1998)

## Classified Staff

Edith Benson, Numerical Records Clerk, Housing (1969-1985)
Evelyn R. Bobo, Admissions Unit Supervisor (1968-1985)
Sylvia "Pat" Bowers, Senior Secretary, Radiologic Sciences (1976-1996)
Leona Brook, Custodian, Physical Plant (1971-1989)
Pauline E. Cardinale, Library Assistant II, Library (1979-2000)
Phyllis Carnahan, Administrative Assistant, Dean, College of Arts and Sciences (1969-1994)
Ruth Ann Caylor, Monographs Assistant, Library (1967-1987)
Wilson Chestnut, Supply Operations Supervisor, Physical Plant (1977-1999)
Carole J. Clemens, Library Assistant 3, Library (1970-1999)
Charlotte Clever, Technical Records Specialist I, Accounts Payable (1975-2001)
Mary Cozine, Secretary-Office Coordinator, Counseling Center (1972-1984)
Marylou Crane, Housing Accountant Representative (1970-1992)
Bene Donahue, Administrative Secretary, President's Office (1970-1992)
Elaine Durbin, Administrative Assistant, College of Health Science (1972-1986)
Patricia J. Durie, Secretary/Coordinator, Political Science (1970-1988)
Luise E. Echevarria, Travel Examiner, Accounts Payable (1971-1998)
Homer Erickson, Grounds Maintenance, Physical Plant (1973-1992)
Isis Frost, Veteran's Clerk, Registrar's Office (1979-1993)
Jackie Fuller, Administrative Assistant, Nursing (1977-1999)
Jean Galland, Head Mechanic, Physical Plant (1972-1993)
Dorothy Haskins, Clerical Specialist, Curriculum Resource Center, Library (1972-1988)
Virginia Hemingway, Graduate Admissions Coordinator, Graduate College (1974-1994)
Irene Hestekin, Administrative Scretary, Mathematics and Computer Sciences (1981-1998)
Art Hotykay, Inventory Specialist, Accounting (1977-1999)
Dorothy Huston, Senior Secretary, Modern Languages (1974-1995)
Norma Ireland, Senior Buyer, Purchasing, (1968-1996)
Ione Jolly, Library Assistant I (1968-1986)
Claudette Levesque, Senior Secretary, Biology, (1976-1996)
V. Ann Lindley, Technical Records Specialist I, Registrar (1970-1999)
Trudy Leininger, Administrative Assistant, Affirmative Action (1976-2001)
Paul Markowski, Chemistry Lab Materials Supervisor (1969-1990)
Margaret McGhee, Administrative Secretary, College of Education (1970-1988)
John R. McKinney, Shipping/Receiving Clerk (1982-1997)
Ray Moore, Biology Lab Material Supervisor (1968-1990)
Granville "Hank" Mouser, Storekeeper, Physical Plant (1970-1987)
Joseph O'Bosky, Maintenance and Operations Supervisor, Student Residential Life (1980-1997)
Lucia Overgaard, Transfer Credit/Graduation Evaluator, Registrar's Office (1975-1994)
Marilyn Paterson, Secretary Office Coordinator, History (1970-1991)
Ella Peterson, Payroll Supervisor (1964-1983)
Barbara Petty, Senior Secretary, Physics (1974-1995)
Mel Pfost, Athletic Equipment Manager, (1970-1996)
Ernie Roberson, Administrative Assistant, Dean, College of Education, (1974-1996)
Josephine Santillanes, Custodian, Physical Plant (1969-1986)
Mary Smith, Administrative Assistant, Dean, College of Business and Economics (1970-1995)
Carol A. Spafford, Administrative Secretary, Theatre Arts (1974-1998)
Clare Spoor, Administrative Assistant, Counseling and Testing Center, (1974-1996)
Elise Swanson, Secretary Office Coordinator, Social Work (1972-1986)
Rachel Terry, Library Assistant II (1971-1990)
Dixie L. Thomas, Secretary, Budget Office, (1976-1996)
Carole Thomason, Senior Secretary, Communication (1974-1995)
Kathy Tipton, Transfer Credit/Graduation Evaluator, Registrar's Office (1969-1984)
Martha J.Turner, Senior Transcript Evaluator, Registrar's Office (1981-1999)
Clara B. Woods, Custodian, Physical Plant (1970-1984)

## Boise State University
# Resident/Nonresident 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 non-resident 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 102, 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 and Marine Corps. Uniformed services such as Coast Guard or National Guard 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.

**A**

A+ Computer Hardware Service, 214
A+ Computer Support Technician courses, 205
A+ Computer Support Technician program, 205
A Tour of the Campus, 5
Academic, 32
Academic and Career Advising, 37
Academic Calendar, 2-3
Academic Honesty, 14
Academic Progress Review, Satisfactory (Financial Aid), 29
Accountancy courses, 57
Accountancy, Department of, 56-57
Accountancy Minor, 56
Accountancy program, 56
Accountancy, Internal Audit Option program, 56
Accounting Technology program, 209
Accreditation, 4-5
Activities, Student, 33
Addictions Studies Minor, 115
Adding Classes and Dropping Classes, 21
Additional Baccalaureate Degrees, 45
Address Changes, 15
Administrative Office Technology program, 209
Administrative Withdrawal from BSU, 22
Admission Core, Idaho College, 16
Admission Index, Boise State University, 18
Admission of International Students, 19-20
Admission to BSU, How to Apply for, 17
  New Freshmen in Academic Programs, 17
  Transfer Applicants in Academic Programs, 17
  Returning Applicants in Academic Programs, 17
  Nondegree-seeking Applicants, 17
  Applicants in Larry G. Selland College of Applied Technology Programs, 17
  Applicants in Graduate Programs, 17
  Applicants from Other Countries, 17
Admission to Elementary Teacher Education, 187
Admission Records, Retention of, 20
Admission to Secondary Teacher Education, 195
Admission Status, Your:
  Conditional, 20
  Denied, 20
  General Status, 20
  Nondegree-seeking, 20
  Probationary, 20
  Provisional, 20
Admission to Upper Division, 41
Admission Standards, 16-19
Admissions, 16-20
Admissions Index, Boise State University, 18
Adult Basic Education, Learning Center for, 12
Advanced Placement Exams (AP), 47
Advanced Certificate in Technical Communication, 102
Advanced Technical Certificate, 45
Albertsons Library, The, 5-6
An Introduction to Boise State University, 4-13
Anthropology courses, 59-60
Anthropology, Department of, 58-60
Anthropology Minor, 59
Anthropology programs, 58
Apartment, Applying to Rent an, 31
Apartments, University, 30-31
Appeal, Right of, 15
Appeals (Admissions), 20
Appeals (Financial Aid), 29
Appendix, 243
Applicants from Other Countries, Admissions, 17
Applicants in Graduate Programs, Admissions, 17
Applicants in Larry G. Selland College of Applied Technology Programs, 17
Application Deadlines, 16
Applied Mathematics Minor, 142
Applied Technology, Larry G. Selland College of, 12
Applied Technology Regular Admission status, 19
Applied Technology Standards for Currently Enrolled High School Students, 19
Applying to Rent an Apartment, 31
Apprenticeship courses, 205
Apprenticeship program, 205
Architecture-See Pre-Architectural, 64-65
Area I Arts and Humanities, 40
Area II Social Sciences, 40
Area III Natural Science-Mathematics, 40
Army ROTC, 146-147
Art courses, 65-67
Art, Department of, 60-67
Art Education programs, 62
Arts and Sciences, College of, 6-7
Associate of Applied Science degree, 43
Associate of Arts degree, 43
Associate of Science degree, 43
Athletic Training program, 130
Athletics, 6
Attendance Policy, 24
Atwell J. Perry College Work Study Program, 27
Audit/Credit Status, 31
Auto Body courses, 206
Auto Body program, 205-206
Automated Industrial Technician program, 206
Automotive Technology courses, 207
Automotive Technology program, 207

**B**

Baccalaureate degree programs
  Accountancy, 56
  Accountancy, Internal Audit, 56
  Anthropology, 58
  Anthropology, Social Science, Secondary Education, 58-59
  Art Education, 62
  Athletic Training, 130
  Bachelor of Applied Science, 42, 68
  Biology, 69-71
  Biology, Secondary Education, 71
  Business Economics, 95
  Chemistry, 75
  Chemistry, Secondary Education, 75
  Civil Engineering, 77
  Communication, 78-79
  Communication/English Combined, 80-81
  Communication, Secondary Education, 79-80
  Communication Training and Development, 80
  Composition (Music), 155-156
  Computer Information Systems, 83
  Computer Science, 87-88
  Construction Management, 89
  Criminal Justice Administration, 91-92
  Earth Science Education, 107
  Economics, International Economics Emphasis, 94-95
  Economics, Social Science Emphasis, 94
  Economics, Quantitative Emphasis, 94
  Economics, Social Science, Secondary Education, 95
  Electrical Engineering, 97
  Elementary Education, 188-189
  Elementary Education, Bilingual/ ESL, 189
  English, General Literature Emphasis, 100-101
  English, Liberal Arts Emphasis, 100
  English, Linguistics Emphasis, 101
  English Teaching, 100
  English, Technical Communication Emphasis, 101
  English, Writing Emphasis, 101-102
  Environmental Health, 110-111
  Exercise Science, Biomechanics Emphasis, 128
  Exercise Science, Exercise Physiology Emphasis, 128
  Exercise Science, Fitness Evaluation and Programming Emphasis, 129
  Finance, 138-139
  French, 148
  French, Secondary Education, 148-149
  General Business Management, 136
  Geology, 106-107
  Geophysics, 107-108
  German, 149
  German, Secondary Education, 149
  Graphic Design, 63
  Health Information Management, 112
  Health Promotion, 129
  Health Science Studies, 113-114
  History, 119-20
  History, Secondary Education, 120
  History of Art and Visual Culture, 63-64
  Illustration, 64
  Interdisciplinary Studies, 125
  International Business, 126
  K-12 Physical Education, 127-128
  Management, Entrepreneurial, 136-137
  Management, Human Resource Management, 136-137
  Marketing, 139
  Mass Communication /Journalism, 79
  Mathematics, 141-142
  Mathematics, Secondary Education, 142
  Mechanical Engineering, 144-145
  Multi-Ethnic Studies, 184
  Music, 156-157
  Music/Business, 157
  Music Education, 156
  Networking and Telecommunications, 84
  Nursing, 161-166
  Performance (Music), 155
  Philosophy, 166
  Physics, 167
  Physics, Secondary Education, 168
  Political Science, 169-170
  Political Science, Social Science, Secondary Education, 170
  Pre-Dental Studies, 115-116
  Pre-Medical Studies, 115-116
  Pre-Veterinary Medicine, 116
  Production and Operations Management, 85
  Psychology, 172-173
  Radiologic Sciences, 175-176
  Respiratory Therapy, 179
  Social Science, 181-182
  Social Work, 180
  Sociology, 182
  Sociology, Interdisciplinary Social Science, Secondary Education, 183
  Sociology, Social Science, Secondary Education, 183
  Spanish, 150
  Spanish, Secondary Education, 150
  Theatre Arts, 201
  Theatre Arts, Secondary Education, 201-202
  Visual Art, 60-62
Baccalaureate degree requirements
  Bachelor of Applied Science degree, 42
  Bachelor of Arts degree, 41
  Bachelor of Business Administration degree, 41
  Bachelor of Fine Arts degree, 42
  Bachelor of Music degree, 42
  Bachelor of Science degree, 41
  Bachelor of Science in Civil Engineering degree, 42
  Bachelor of Science in Construction Management degree, 42
  Bachelor of Science in Electrical Engineering degree, 42
  Bachelor of Science in Mechanical Engineering degree, 42
Bilingual/ESL, Elementary Education, 189
Biology courses, 72-73
Biology, Department of, 69-73
Biology Minor, 71
Biology program, 69-71
Biology, Secondary Education program, 71

Boise, 4
Boise State University Admission Index, 18
Botany courses, 73
Broadcast Technology courses, 208
Broadcast Technology program, 208
Brown Honors Scholarship, 27
BSU Canyon County Campus, 35
BSU's Course Numbering System, 53
BSU's Grading System, 23
BSU Graduate Catalog, 12
BSU Minority Assistant Coordinator, 33
BSU Radio Classroom, 35
BSU Work-Study Program, 27
Business Communication courses, 140
Business and Economics, College of, 7-8
Business Economics program, 95
Business Minor, 74
Business Statistics courses, 85
Business Systems and Computer Technology courses, 214
Business Technology courses, 210-211
Business Technology program, 208-209

C
Calendar, Academic, 2-3
Calculate Your Grade Point Average (GPA), How to, 23
Campus, A Tour of the, 5
Canadian Studies courses, 74
Canadian Studies Minor, 74
Cancellation, Registration, 21
Canyon County Campus, 35
Career Center, 32
Catalog Contents, Policy Statement concerning, 22
Catalog Policy, 46
Capital High School, 35
Center for Economic Education, 9
Center for Multicultural/Educational Opportunities, 9
Center for Health Policy, 10
Center for School Improvement, 9
Certificate Programs (Extended Studies), 36
Certification Requirements and Endorsements for Secondary Education, 195-199
Certification Requirements for Elementary Education, 192
CEU/Certificate programs (Extended Studies), 36
Chaffee Hall, 30
Change in Enrollment (Financial Aid), 28-29
Challenge, Course, 48
Charges, Board and Room, 30
Chemistry courses, 75-76
Chemistry, Department of, 74-76
Chemistry Minor, 75
Chemistry programs, 75
Child Care and Development courses, 211
Child Care and Development program, 211
Children's Center, 32-33
Civil Engineering courses, 77-78
Civil Engineering, Department of, 76-78
Civil Engineering program, 77
Classes, Last Week of, 24
Classification, Student, 15
College Level Examination Program (CLEP), 47
College Admission Core, Idaho, 16
College of Arts and Sciences, 6-7
College of Business and Economics, 7-8
College of Education, 8-9
College of Engineering, 9-10
College, Graduate, 12-13
College of Health Sciences, 10-11
College of Social Sciences and Public Affairs, 11
College of Applied Technology, Larry G. Selland, 12
Communication courses, 81-83
Communication, Department of, 78-83
Communication Minor, 81
Communication programs, 78-81
Complete Withdrawal from BSU, 22
Composition (English) requirement, 38
Composition (Music) program, 155-156
Computation of the Grade Point Average, 23
Computer Aided Manufacturing Technology courses, 212-213
Computer Aided Manufacturing Technology program, 212
Computer Conferencing, 35
Computer Engineering, Department of Electrical and, 97-99
Computer Information Systems courses, 85-86
Computer Information Systems Minor, 84
Computer Information Systems program, 83-84
Computer Information Systems and Production Management, Department of, 83-87
Computer Network Support Technician courses, 213-214
Computer Network Support Technician program, 213
Computer Resources, 6
Computer Science courses, 88
Computer Science Minor, 88
Computer Science program, 87-88
Computer Science, Department of, 87-88
Computer Service Technology courses, 214-215
Computer Service Technology program, 214-215
Conditional Status (Admissions), 20
Conference or Workshop, 54
Confidentiality and Privacy, 14-15
Conflict Management Services, 11
Construction Management courses, 90
Construction Management, Department of, 89-90
Construction Management Minor, 90
Construction Management program, 89
Continuing Education Units (CEU's), 36
Cooperating Agencies, 10
Core Block courses, 215
Core, Idaho College Admission, 16
Core Requirements, 39-40
Corporate Relations Program, 36
Correspondence Courses, Extension and, 45
Correspondence Study, 35
Cost Information (Student Housing), 30-31
Counselor Education Department, 90
Counseling and Testing Center, BSU, 33
Course Challenge, 48
Course Description, Definition of, 54
Course Descriptions
A+ Computer Support Technician, 205
Accountancy, 57
Anthropology, 59-60
Apprenticeship, 205
Art, 65-67
Auto Body, 206
Automotive Technology, 207
Bachelor of Applied Science, 68
Biology, 72-73
Botany, 73
Broadcast Technology, 208
Business Communication, 140
Business Statistics, 85
Business Systems and Computer Technology, 214
Business Technology, 210-211
Canadian Studies, 74
Chemistry, 75-76
Child Care and Development, 211
Civil Engineering, 77-78
Communication, 81-83
Computer Aided Manufacturing Technology, 212-213
Computer Information Systems, 85-86
Computer Network Support Technician, 213-214
Computer Science, 88
Conference/Workshop, 54
Construction Management, 90
Core Block, 215
Criminal Justice Administration, 92-93
Culinary Arts, 216
Dental Assisting, 217
Dispute Resolution, 93
Drafting Technology, 218
Economics, 96
Education, 192-194, 199-200
Electrical Engineering, 97-99
Electrical Lineworker, 218-219
Electronics Technology, 219-220
Engineering Science, 99
English, 103-105
Environmental Health, 111
Environmental Studies, 106
Farm Business Management, 221
Finance, 140
Fire Service Technology, 221
Fitness Activity (See Kinesiology Activity), 132-134
Foreign Language, 151
Foreign Study, 53
Forestry, 73
French, 151-152
General Business, 137
General Science, 109-110
Geography, 108
Geology, 108-109
Geophysics, 109
German, 152
Greek, 123
Health Information, 112-113
Health Science, 114
Heavy Duty Mechanics-Diesel, 222-223
History, 121-123
Honors, 123-124
Horticulture Technology, 223-224
Humanities, 105
Idaho Professional Driver Training, 224
Independent Study, 54
Industrial Maintenance Technology, 224-225
Instructional & Performance Technology, 124
Interdisciplinary Studies, 125
International Business, 126-127
Internship, 54
Japanese, 152-153
Kinesiology, 130-132
Kinesiology Activity, 132-134
Latin, 123
Law-Speciality courses, 135
Library Science, 200
Linguistics, 105
Machine Tool Technology, 225-226
Management, 137-138
Marketing, 140-141
Marketing/Management Technology, 226-227
Mathematics, 143-144
Mechanical Engineering, 145-146
Military Science, 147
Music Applied, 157-158
Music, Ensemble, 158-159
Music, General, 159-160
Music, Private Lessons, 158
Nursing, 163, 165
Office Occupations, 228
Philosophy, 166-167
Physics, 168-169
Political Science, 171-172
Practical Nursing, 165-166
Production and Operations Management, 86-87
Psychology, 173-174
Radiologic Sciences, 176-177
Recreational and Small Engine Repair Technology, 228-229
Refrigeration, Heating, and Air Conditioning, 229-230
Respiratory Therapy, 179
Entry Level Respiratory Therapy Technician, 230
Seminar, 54

Semiconductor Manufacturing Technology, 231
Social Science, 186
Social Work, 180-181
Sociology, 185-186
Spanish, 153-154
Special Topics, 53
Student Government, 33
Surgical Technology, 231-232
Teacher Education, 200
Technical Support, 232
Telecourse, 54
Theatre Arts, 202-203
Welding and Metal Fabrications, 232-233
Women's Studies, 204
Workshop/Conference, 54
Zoology, 73
Course Numbering System, BSU, 53
Course Numbers, University-Wide, 53-54
Course Prefixes, 54
Course Prerequisite, 41
Course, Repeating a, 23-24
Courses Offered Via the Internet, 35
Coverage, Insurance, 26, 33
Credit/Audit Status, 21
Credit for Prerequisites Not Taken, 48
Credit for Prior Learning, 35, 46-48
Credit Information and Requirements (Financial Aid), 29
Credit Limitations, 45
Credit Requirements for Various Degrees, 41-45
Criminal Justice Administration courses, 92-93
Criminal Justice Administration, Department of, 91-93
Criminal Justice Administration program, 91-92
Culinary Arts courses, 216
Culinary Arts program, 215-216

**D**

DANTES/USAFI Exams, 47
Deadlines, Application, Admissions, 16
Deadlines for Paying Tuition, Fees, and Other Charges, 25
Dean's List, 23
Dean's Scholarships, 28
Deferred Payment of Tuition, Fees, and Other Charges, 25
Degree at BSU, Obtaining a, 37-48
Degree codes, 37
Degree, Baccalaureate requirements
Bachelor of Applied Science, 42
Bachelor of Arts, 41
Bachelor of Business Administration, 41
Bachelor of Fine Arts, 42
Bachelor of Music, 42
Bachelor of Science, 41
Bachelor of Science in Civil Engineering, 42
Bachelor of Science in Construction Management, 42
Bachelor of Science in Electrical Engineering, 42
Bachelor of Science in Mechanical Engineering, 42
Degrees and Majors Offered, 49-53
Degree Requirements, General, 37-38
Denied Status (Admissions), 20
Dental Assisting courses, 217
Dental Assistant program, 217
Department Listings
A+ Computer Support Technician, 205
Accountancy, 56-57
Anthropology, 58-60
Apprenticeship, 205
Art, 60-67
Auto Body, 205-206
Automated Industrial Technician, 206
Automotive Technology, 207
Bachelor of Applied Science, 68
Biology, 69-74
Broadcast Technology, 208
Business Technology, 208-211
Canadian Studies, 74
Chemistry, 74-76
Child Care and Development, 211
Civil Engineering, 76-78
Communication, 78-83
Computer Aided Manufacturing Technology, 212-213
Computer Information Systems and Production Management, 83-87
Computer Network Support Technology, 213-214
Computer Service Technology, 214-215
Construction Management, 89-90
Core Block, 215
Counselor Education, 90
Criminal Justice Administration, 91-93
Culinary Arts, 215-216
Dental Assisting, 216-217
Dispute Resolution, 93
Drafting Technology, 217-218
Economics, 93-96
Electrical and Computer Engineering, 97-99
Electrical Lineworker, 218
Electronics Technology, 219-220
Elementary Education and Special Studies, 186-194
Engineering Science, 99
English, 94-105
Environmental Control Technician, 220
Environmental Studies Minor, 105-106
Farm Business Management, 221
Fire Service Technology, 221
Foundations, Technology and Secondary Education, 194-200
Geosciences, 106-110
Health, Physical Education, and Recreation, (See Kinesiology), 127-134
Health Studies, 110-119
Heavy Duty Mechanics-Diesel, 222-223
History, 119-123
Honors College, 123-124
Horticulture Technology, 223-224
Idaho Professional Driver Training, 224
Industrial Maintenance Technology, 224-225
Instructional & Performance Technology, 124
Interdisciplinary Studies, 124-125
International Business Program, 125-127
Kinesiology 127-134
Legal Assistant, 134-135
Machine Tool Technology, 225-226
Management, 136-138
Marketing and Finance, 138-141
Marketing/Management Technology, 226-227
Mathematics, 141-144
Mechanical Engineering, 144-146
Mechanical/Welding Technician, 227
Military Science, 146-147
Modern Languages, 148-154
Music, 164-160
Nursing, 161-166
Office Occupations, 227-228
Philosophy, 166-167
Physics, 167-169
Political Science, 169-172
Psychology, 172-174
Radiologic Sciences, 174-177
Recreational and Small Engine Repair Technology, 228-229
Refrigeration, Heating and Air Conditioning, 229-230
Respiratory Therapy, 178-179
Entry Level Respiratory Therapy Technician, 230
Semiconductor Manufacturing Technology, 231
Social Work, 180-181
Sociology, 181-186
Surgical Technology, 231-232
Teacher Education, 186-200
Technical Support, 232
Theatre Arts, 201-203
Welding and Metal Fabrications, 232-233
Women's Studies, 203-204
Department Scholarships, 28
Dependent Coverage (Student Health Insurance), 26
Disabilities Services Office, 34
Dismissal and Probation, 24
Dispute Resolution Certificate Program, 93
Dispute Resolution courses, 93
Distance Education Classes, 35
Distance Learning Network, 35
Double Major, 45
Drafting Technology courses, 218
Drafting Technology program, 217-218
Driscoll Hall, 30
Dropping and Adding Classes, 21
Dual Enrollment for High School Students, 19, 36

**E**

Earth Science Education program, 107
Economics courses, 96
Economics, Department of, 93-96
Economics Minor, 96
Economics programs, 94-95
Education, College of, 8-9
Electrical Engineering courses, 97-99
Electrical and Computer Engineering, Department of, 97-99
Electrical Engineering program, 97
Electrical Lineworker courses, 218-219
Electrical Lineworker program, 218
Electronics Technology courses, 219-220
Electronics Technology program, 219
Elementary Education program, 188-189
Elementary Education Bilingual/ESL program, 189
Elementary Education, Certification Requirements for, 192
Eligibility Requirements (Financial Aid), 27
Emergency Short-Term Loans, 27
Emeriti, 240
Employment, Student, 33-34
Engineering Science courses, 99
Engineering, College of, 9-10
English Composition Requirement, 38
English as a Second Language courses, 103
English courses, 103-105
English, Department of, 99-105
English Minor, 102
English programs, 100-102
Enrollment Status, Verification of Your, 15
Environmental Control Technician program, 220
Environmental Health courses, 111
Environmental Health program, 110-111
Environmental Studies courses, 106
Environmental Studies Minor, 105-106
Evening Programs, 35
Examinations, Final, 24
Exclusion, Grade, 24
Experiential Learning, 45
Extension and Correspondence Courses, 35-36
Extended Studies, Division of, 35-36
Entrepreneurial program, Management, 136-137

**F**

Faculty, Students and, 5
Faculty-Initiated Withdrawals, 21-22
Faculty List, 234
Fair-Housing Policy, 30
Family and Health, 32-33
Farm Business Management courses, 221
Farm Business Management program, 221
Federal Direct Loans, William D. Ford, 27
Federal Pell Grant, 27
Federal Perkins Loans, 27

Federal Supplemental Education Opportunity Grant, 27
Federal Work-Study Program, 27
Fees, Tuition and, 25-26
Fees and Charges, Other, 25
Final Examinations, 24
Finance courses, 140
Finance, Department of Marketing and, 138-141
Finance Minor, 139
Finance program, 138-139
Financial Aid, 27-29
Financial Aid, How to Apply for, 28
Financial Aid, Sources of, 27
Financial Aid is Distributed, How, 28
Fire Service Technology courses, 221
Fire Service Technology program, 221
Fitness Activity courses, (See Kinesiology Activity) 45, 132-134
Foreign Language courses, 151
Forestry courses, 73
Foundations, Technology, and Secondary Education, Department of, 194-200
French courses, 151-152
French Minor, 150
French program, 149-149
Freshmen, Admission Standards for, 16

**G**
Gateway Center, 32
Gem Scholarships, 28
General Business courses, 137
General Business Management program, 136
General Degree Requirements, 37-48
General Policies, 14-15
General Science courses, 109-110
General Status (Admissions), 20
General University Core Requirements, 39-40
Geography courses, 108
Geology courses, 108-109
Geology program, 106-107
Geophysics courses, 109
Geophysics program, 107-108
Geosciences, Department of, 106-110
German courses, 152
German Minor, 151
German program, 149
Gerontology Minor, 57
Government, Student, 33
Government courses, Student, 33
Gowen Field, Southwest Boise Campus/, 35
Grade Exclusion, 24
Grade-Point Average (GPA), How to Calculate Your, 23
Grades, 23-24
Grading System, BSU's, 23
Graduate College, 12-13
Graduate Courses for Undergraduate Credits, 12
Graduate Courses Reserved for Graduate Credit, 13
Graduate Credit Options for Seniors, 12-13
Graduate Preparation Courses, 36
Graduation, Honors, 46
Graduation Requirements, 37-48
Graduation, How to Apply for, 48
Graphic Design program, 63
Greek courses, 123

**H**
Health Center, 33
Health, Family and, 32-33
Health Information courses, 112-113
Health Information Management program, 112
Health Information Technology program, 112
Health Insurance Program, Student, Dependent Coverage, 26
Health Insurance Program, Part-time Students, 26
Health Insurance Program, Student, Refund Policy, 26
Health Insurance Program, Student, 26
Health Insurance Coverage, 26, 33
Health Sciences, College of, 10-11
Health Science courses, 114
Health Science Studies program, 113-114
Health Studies, Department of, 110-119
Health, Physical Education, and Recreation, Department of (Department of Kinesiology), 127-134
Heavy Duty Mechanics-Diesel courses, 222-223
Heavy Duty Mechanics-Diesel program, 222
High School Students, Dual Enrollment for, 19
History courses, 121-123
History, Department of, 119-123
History programs, 119-120
History, The University's, 4
History of Art and Visual Culture program, 63-64
Honesty, Academic, 14
Honors courses, 123-124
Honors College, 123-124
Honors Graduation, 124
Honors Program Scholarships, 124
Horticulture Technology courses, 223-224
Horticulture Technology program, 223
Housing, Off Campus Student, 31
Housing Preferences, 30
Housing, Student, 30-31
How BSU Calculates Your Tuition and Fees, 25
How Financial Aid Is Distributed, 28
How to Apply for Admission to BSU, 17
How to Apply for Financial Aid, 28
How to Apply for Graduation, 48
How to Apply for Residence Hall Housing, 30
How to Calculate Your Grade-Point Average (GPA), 23
How to Meet the English Composition Course Requirement, 38
How to Meet the Mathematics Course Requirement, 38-39
How to Read a Degree-Requirements Table, 44
How to Use This Catalog, 1
Humanities courses, 105
Human Resource Management program, Management, 136-137

**I**
Idaho College Admission Core, 16
Idaho Educational Public Television, 35
Idaho Professional Driver Training courses, 224
Idaho Professional Driver Training program, 224
Idaho Residency Requirements, 26, 243
Illustration program, 64
Incompletes, 23
Independent Study, 45
Index, BSU Admission, 18
Industrial Maintenance Technology courses, 224-225
Industrial Maintenance Technology program, 224
Information Center, New Student, 32
In-Service Program for Teachers, 36
Instruction & Performance Technology courses, 124
Instruction & Performance Technology, Department of, 124
Insurance Coverage, 23, 33
Intensive English, 36
Interdisciplinary Studies program, 124-125
Interdisciplinary Studies in Aging, 57
Interdisciplinary Studies in Women's Studies, 203-204
International Business courses, 126-127
International Business Minor, 126
International Business program, 125-127
International Programs/Studies Abroad, 32, 36
International Students, Admission of, 19-20
Internet Classes, 35
Internships, 45-46

**J**
Japanese courses, 152-153
Japanese Studies minor, 151
John B. Barnes Towers, 30

**K**
Kinesiology Activity courses, 132-134
Kinesiology courses, 130-132
Kinesiology, Department of, 127-134
Knowledge Network and Cable Television, 35

**L**
Language Resource Center, 148
Larry G. Selland College of Applied Technology, 12
Last Week of Classes, 24
Latin courses, 123
Latin Language and Literature Minor, 121
Learning Center for Adult Basic Education, 12
Learning Outcomes of the Core Curriculum, 39
Legal Assistant courses, 135
Legal Assistant Minor program, 134-135
Legal Office Technology program, 209-210
Leveraging Education Assistance Partnership Program (LEAP) Grant, 27
Library, The Albertsons, 5-6
Library Science courses, 200
Limited Financial-Aid Status, 29
Linguistics courses, 105

**M**
Machine Tool Technology courses, 225-226
Machine Tool Technology program, 225
Majors and Degrees Offered, 49-53
Management courses, 137-138
Management, Department of, 136-138
Management, Entrepreneurial Minor, 137
Management, Entrepreneurial program, 136-137
Management, Human Resource Management Minor, 137
Management, Human Resource Management program, 136-137
Marching Band, 154
Marketing courses, 140-141
Marketing and Finance, Department of, 138-141
Marketing Minor, 140
Marketing program, 139
Marketing/Management courses, 226-227
Marketing/Management program, 226
Mass Communication/Journalism program, 79
Mathematics courses, 143-144
Mathematics, Department of, 141-144
Mathematics Minor, 142
Mathematics programs, 141-142
Mathematics requirement, 38-39
McCall, 35
Meal Options (Housing), 30
Mechanical Engineering courses 145-146
Mechanical Engineering, Department of, 144-146
Mechanical Engineering program, 144-145
Mechanical Welding Technician program, 227
Mexican-American Minor, 184
MHAFB program, 35
Military Science courses, 147
Military Science, Department of, 146-147
Military Training Credit, 47
Minor Teaching Certification Endorsements, 196-199
Minority Assistance Coordinator, BSU, 33
Minors
  Accountancy, 56
  Addictions Studies Minor, 115
  Advanced Technical Communication, 102
  Anthropology, 59
  Applied Mathematics, 142

Biology, 71
Business, 74
Canadian Studies, 74
Chemistry, 75
Civil Engineering, 77
Communication, 81
Computer Information Systems, 84
Computer Science, 88
Construction Management, 90
Dispute Resolution, 93
Economics, 96
English, 102
Environmental Studies, 105-106
Finance, 139
French, 150
German, 151
Gerontology, 57
Interdisciplinary Minor in Women's Studies, 203
Internal Auditing, 57
International Business, 126
Japanese Studies, 151
Latin and Language Literature, 121
Legal Assistant, 134-135
Management, Entrepreneurial, 137
Management, Human Resource Management, 137
Marketing, 140
Mathematics, 142
Mexican-American Studies, 184
Multi-Ethnic Studies, 185
Music, 157
Native American Studies, 59
Philosophy, 166
Physics, 168
Political Science, 170
Psychology, 173
Quality Management, 85
Sociology, 183
Spanish, 151
Technical Communication, 102
Theatre Arts, 202
Visual Art, 64
Women's Studies, 203
Mission, The University's, 4
Modern Languages, Department of, 148-154
Morrison Hall, 30
Mountain Home Air Force Base, 35
Multi-Cultural Center, 33
Multiculture/Multiethnic Diversity, 11
Multi-Ethnic Studies minor, 185
Multi-Ethnic Studies program, 184
Music Applied, courses, 157-158
Music, Department of, 154-160
Music, Ensemble, courses, 158-159
Music, General courses, 159-160
Music Minor, 157
Music, Private lessons, 158
Music programs, 155-157

**N**

Name Changes, 15
National League of Nursing II Mobility Tests, 47
National Student Exchange Program, 36
Native American Studies Minor, 59
Networking Technology program, 214
Networking and Telecommunications courses, 86
Networking and Telecommunications program, 84
New Freshmen in Academic Programs, 17
New Student Information Center, 32
Nonbaccalaureate degree programs
A+ Computer Hardware Service, 214
A+ Computer Support Technician, 205
Accounting Technology, 209
Administrative Office Technology, 209
Apprenticeship, 205
Associate of Applied Science, 43
Associate of Arts, 43
Associate of Science, 43
Auto Body, 205-206
Automated Industrial Technician, 206
Automotive Technology, 207
Broadcast Technology, 208
Business Technology, 208-209
Child Care and Development, 211
Computer Aided Manufacturing Technology, 212
Computer Network Support Technician, 213
Computer Service Technology, 214
Core Block, 215
Criminal Justice Administration, 92
Culinary Arts, 215-216
Dental Assisting, 217
Drafting Technology, 217-218
Electrical Lineworker, 218
Electronics Technology, 219
Environmental Control Technician, 220
Farm Business Management, 221
Fire Service Technology, 221
Health Information Technology, 112
Heavy Duty Mechanics-Diesel, 222
Horticulture Technology, 223
Idaho Professional Driver Training, 224
Industrial Maintenance Technology, 224
Legal Office Technology, 209-210
Machine Tool Technology, 225
Marketing/Management Technology, 226
Mechanical Welding Technician, 227
Networking Technology, 214
Nursing, 164
Office Occupations, 227-228
Practical Nursing, 165
Radiologic Sciences, 175
Recreational and Small Engine Repair Technology, 228
Refrigerating, Heating, and Air Conditioning, 229
Respiratory Therapy, 178
Entry Level Respiratory Therapy Technician, 230
Semiconductor Manufacturing Technology, 231
Social Science, 43
Surgical Technology, 231
Technical Support, 232
Welding and Metals Fabrication,
Nondegree-seeking Status, 20
Nondegree-seeking Applicants, 17
Nontraditional Students, 33
Normal Path of Advancement (Financial Aid), 29
Numbering System, Course, 53
Nursing courses, 163, 165
Nursing, Department of, 161-166
Nursing II Mobility Tests, National League of, 47
Nursing programs, 161-166

**O**

Obtaining a Degree at BSU, 37-48
Off-Campus Centers, 35
Off-Campus Student Housing, 31
Office Occupations courses, 228
Office Occupations program, 227-228
Office of Field Experiences and Program Evaluation, 8-9
Open Registration, 21
Operations Management courses, 86-87
Organization of BSU, 4
Orientation, 32
Other Fees and Charges, 25
Other Sources of Information, 1
Other Student Services, 33-34
Other Training Programs, 47

**P**

Pell Grant, Federal, 27
PEP Exams, 47
Performance (Music) program, 155
Perkins Loans, Federal, 27
Petitions for Language Credit, 148-149
Philosophy of Core, 39
Philosophy courses, 166-167
Philosophy, Department of, 166-167
Philosophy Minor, 166
Philosophy program, 166
Physical Education courses, (See Kinesiology), 130-132
Physical Education and Recreation, Department of Health (See Kinesiology), 127-134
Physical Education, K-12, program, 127-128
Physics courses, 168-169
Physics, Department of, 167-169
Physics Minor, 168
Physics programs, 167-168
Policies, General, 14-15
Policies and Procedures, Registration, 21-22
Policy, Attendance, 24
Policy Statement Concerning Catalog Contents, 22
Political Science courses, 171-172
Political Science, Department of, 169-172
Political Science Minor, 170
Political Science programs, 169-170
Practical Nursing courses, 165-166
Practical Nursing program, 165
Pre-Architectural, 64-65
Pre-Chiropractic, 116
Pre-Dental Hygiene, 117
Pre-Dental Studies programs, 115-116
Pre-Dietetics, 116
Pre-Forestry and Pre-Wildlife Management, 72
Pre-Law Advising, 172
Pre-Medical Studies programs, 115=116
Pre-Medical Technology, 117
Pre-Occupational Therapy, 117
Pre-Optometry, 118
Pre-Pharmacy, 118
Pre-Physical Therapy, 118
Pre-Physician Assistant, 118-119
Pre-Professional Studies, 115
Pre-Speech-Language Pathology, 119
Pre-Veterinary Medicine, 116
Prerequisite, Course, 41
Prerequisite Not Taken, Credit for, 48
President's Scholarship, 28
Prior Learning, Credit for, 46-48
Prior Learning Portfolio, 47-48
Priority Registration, 21
Privacy, Confidentiality and, 14-15
Privacy Notice (Financial Aid), 29
Probation and Dismissal, 24
Probationary Status (Admissions), 20
Production and Operations Management courses, 86-87
Production and Operations Management program, 85
Production Management, Department of Computer Information Systems and, 83-87
Program Advisory Boards, 11
Provisional Status (Admissions), 20
Psychology courses, 173-174
Psychology, Department of, 172-174
Psychology Minor, 173
Psychology program, 172-173
Public Affairs, College of Social Sciences and, 11-12

**Q**

Quality Management Minor, 85

**R**

Radio Classroom, BSU, 35
Radiologic Sciences courses, 176-177
Radiologic Sciences, Department of, 174-177
Radiologic programs, 175-176
Records, Students, 14
Records, Transcript, 14
Recreation, 6

Recreational and Small Engine Repair Technology courses, 228-229
Recreational and Small Engine Repair Technology program, 228-229
Refrigeration, Heating and Air Conditioning courses, 229-230
Refrigeration, Heating and Air Conditioning program, 229-230
Refund Policy (Student Health Insurance), 26, 33
Refund Policy (Tuition and Fees), 26
Registration Cancellation, 21
Registration Polices and Procedures, 21-22
Registration, Priority, 21
Registration, Open, 21
Religion Courses, 46
Repeating a Course, 23-24
Requirements for Graduation, 37-48
Requirements, Baccalaureate degree, 37-48
Reserve Officer's Training Corps-Army, 146-147
Residency Requirements, Idaho, 26, 243
Residency Requirements for Graduation, 37
Respiratory Therapy courses, 179
Respiratory Therapy, Department of, 178-179
Respiratory Therapy programs, 178-179
Entry Level Respiratory Therapy Technician courses, 230
Entry Level Respiratory Therapy Technician program, 230
Retention of Admission Records, 20
Returning Applicants in Academic Programs, 17
Returning Students, Standards for, 19
Right of Appeal, 15
Rights and Responsibilities, Your, 14
Room and Board Charges, 30
ROTC (Army), 146-147
Rules and Regulations (Housing), 30

**S**

Satisfactory Academic Progress (Financial Aid), 29
Satisfactory Academic Progress Review (Financial Aid), 29
Scholarships, 27-28
Scholarships, Honors Program, 124
Scholarships, ROTC, 147
School of Social Work, 180-181
Second Baccalaureate degree, 45
Secondary Education, Department of Foundations, Technology and, 194-200
Secondary Education, Certification Requirements and Endorsements, 195-199
Secondary Student Teaching, 196
Semiconductor Manufacturing Technology courses, 231
Semiconductor Manufacturing Technology program, 231
Seminar, 54
Senior Citizen Rate, 26
Service Learning, 46
Services for Students with Disabilities Office, 34
Short-Term Loans, 27
Social Science courses, 186
Social Science programs, 181-182
Social Sciences and Public Affairs, College of, 11
Social Science Research Center, 11
Social Work courses, 180-181
Social Work program, 180
Social Work, School of, 180-181
Sociology courses, 185-186
Sociology, Department of, 181-186
Sociology Minor, 183
Sociology programs, 182-183
Sources of Financial Aid, 27
Southwest Boise Campus/Gowen Field, 35
Spanish courses, 153-154
Spanish Minor, 151
Spanish programs, 150
Special Topics courses, 53
Standards, Admission, 16-19
Standards for Freshmen, 16
Standards for Larry G. Selland College of Applied Technology Students, 19
Standards for Currently Enrolled High School Students, 19
Standards for Nondegree-seeking Students, 19
Standards for Returning Students, 19
Standards for Transfer Students, 16
State of Idaho Scholarship Awards, 28
Status, Your Admission, 20
Student Activities, 33
Student Address/Name Changes, 15
Student Classification, 15
Student Employment, 33-34
Student Government, 33
Student Government courses, 33
Student Health Center, 33
Student Health Insurance Program, 26, 33
Student Housing, 30-31
Student Information Center, New, 32
Students, International, 33
Student Orientation, 32
Student Program, Disabled, 34
Student Records, 14
Student Services, 32-34
Student Services Office, 34
Student Success Classes, 32
Student Success Program, 34
Student Teaching: Admission to Professional Year in Elementary Education, 188
Student Teaching, Admission to Secondary, 196
Students and Faculty, 5
Studies Abroad, International Programs, 32
Study Abroad and National Student Exchange Program (Financial Aid), 29
Summary of Programs and Courses, 49-55
Summer Programs, 35
Surgical Technology courses, 231-232
Surgical Technology program, 231-232

**T**

Table of Contents, 1
Teacher Certification, Secondary, 196-199
Teacher Education courses, 200
Teacher Education, 186-200
Teacher Education Advisory Council, 8
Technical Certificate, 45
Technical Certificate, Other Certificates, and Minors, 45
Technical Communication Minor, 102
Technical Support courses, 232
Technology, Larry G. Selland College of Applied, 12
Technology Students, Standards for College of, 19
Telecourses, 35, 46
Test Preparation, 32
Testing Center, Counseling and, 33
The Albertsons Library, 5-6
The Federal Work Study Program, 27
The University's History, 4
The University's Mission, 4
Theatre Arts courses, 202-203
Theatre Arts, Department of, 201-203
Theatre Arts Minor, 202
Theatre Arts programs, 201-202
Tour of the Campus, A, 5
Training Program, Other, 47
Transcript Records, 14
Transfer Applicants in Academic Programs, 17
Transferring Credits to BSU, 46
Transfer Students, Standards for, 16
Tuition and Fees, 25-26
Tutorial Services, 32
Twin Falls, 35

**U**

Undergraduate Enrollment in 500-level Courses, 46
University Apartments
- University Courts, 30
- University Heights, 30
- University Manor, 30
- University Park, 30
- University Village, 30

University Core Requirements for Baccalaureate Degree, 39-40
University Residence Halls, 30
University-Wide Course Numbers, 53-54
University's Mission, The, 4
Upper-division courses, Admission to, 41
URL address, 1
USAFI/DANTE Exams, 47

**V**

Verification of your Enrollment Status, 15
Veterans Services, 34
Visual Art programs, 60-61

**W**

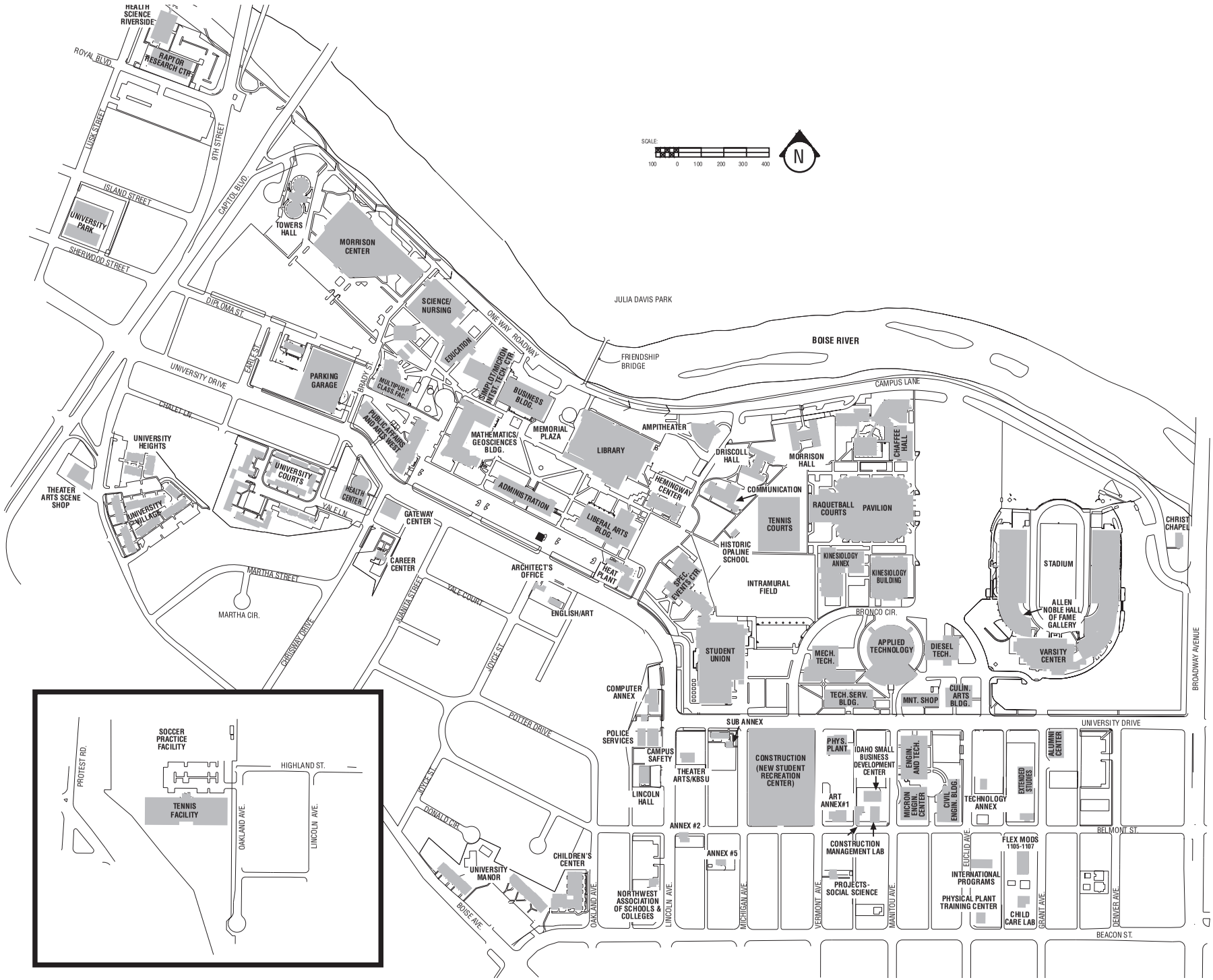
Waivers of nonresident fees, 28
Web address, 1
Weekend University, 35
Welding and Metals Fabrication courses, 232-233
Welding and Metals Fabrication program, 232
Western Undergraduate Exchange (WUE) Awards, 28
When You Are Admitted, 20
William D. Ford Federal Direct Loans, 27
Withdrawal from BSU, Administrative, 22
Withdrawal from BSU, Complete, 21-22
Withdrawal , Faculty- Initiated, 21-22
Withdrawals, Number of, 21
Women's Center, 34
Women's Studies Courses, Interdisciplinary Minor in, 204
Women's Studies, Interdisciplinary Minor in, 203
Workshop or Conference, 54
World Wide Web address, 1
Writing Center, 32

**Y**

Your Admission Status, 20
Your Rights and Responsibilities, 4

**Z**

Zoology courses, 73


HEALTH SCIENCE RIVERSIDE
RAPTOR RESEARCH CTR.
ROYAL BLVD.
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9TH STREET
ISLAND STREET
CAPITOL BLVD.
UNIVERSITY PARK
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SCIENCE/ NURSING
EDUCATION
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JULIA DAVIS PARK
BOISE RIVER
FRIENDSHIP BRIDGE
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UNIVERSITY DRIVE
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CHALET LN.
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AMPITHEATER
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ADMINISTRATION
HEMINGWAY CENTER
COMMUNICATION
RAQUETBALL COURTS
PAVILION
THEATER ARTS SCENE SHOP
UNIVERSITY VILLAGE
YALE LN.
GATEWAY CENTER
LIBERAL ARTS BLDG.
TENNIS COURTS
CHRIST CHAPEL
CAREER CENTER
HISTORIC OPALINE SCHOOL
KINESIOLOGY ANNEX
KINESIOLOGY BUILDING
STADIUM
MARTHA STREET
ARCHITECT'S OFFICE
HEAT PLANT
SPEC. EVENTS CTR.
INTRAMURAL FIELD
ALLEN NOBLE HALL OF FAME GALLERY
MARTHA CIR.
CHRISNAY DRIVE
JANITA STREET
YALE COURT
ENGLISH/ART
BRONCO CIR.
STUDENT UNION
MECH. TECH.
APPLIED TECHNOLOGY
DIESEL TECH.
VARSITY CENTER
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JOYCE ST.
COMPUTER ANNEX
TECH. SERV. BLDG.
MNT. SHOP
CULIN. ARTS BLDG.
POTTER DRIVE
SUB ANNEX
UNIVERSITY DRIVE
POLICE SERVICES
CAMPUS SAFETY
THEATER ARTS/KBSU
CONSTRUCTION (NEW STUDENT RECREATION CENTER)
PHYS. PLANT
IDAHO SMALL BUSINESS DEVELOPMENT CENTER
ENGIN. AND TECH.
EXTENDED STUDIES
ALUMNI CENTER
LINCOLN HALL
ART ANNEX#1
MICRON ENGIN. CENTER
CIVIL ENGIN. BLDG.
TECHNOLOGY ANNEX
DONALD CIR.
ANNEX #2
BELMONT ST.
CONSTRUCTION MANAGEMENT LAB
EUCLID AVE.
FLEX MODS 1105-1107
CHILDREN'S CENTER
ANNEX #5
UNIVERSITY MANOR
PROJECTS - SOCIAL SCIENCE
INTERNATIONAL PROGRAMS
PHYSICAL PLANT TRAINING CENTER
CHILD CARE LAB
NORTHWEST ASSOCIATION OF SCHOOLS & COLLEGES
OAKLAND AVE.
LINCOLN AVE.
MICHIGAN AVE.
VERMONT AVE.
MANITOU AVE.
GRANT AVE.
DENVER AVE.
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BEACON ST.
SCALE:
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N
SOCCER PRACTICE FACILITY
PROTEST RD.
HIGHLAND ST.
TENNIS FACILITY
OAKLAND AVE.
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